



Dolezych

einfach sicher

Bestseller



Welcome to Dolezych!

Dolezych is your professional business partner in the areas of lifting equipment, slings, ropes and load securing technologies. We offer secure and reliable solutions for the lifting and transporting of goods - whether it be on-site in production plants, on construction sites, or transportation by road, rail, sea, or air cargo. Our team of more than 550 members in four locations world-wide is committed to safety.

Our main concern is your safety, as well as the safety of staff and all others involved. To work safely, you need high-quality products, as well as the know-how to use them correctly. There is no single product suitable for all applications, but we can provide the optimal products for any particular task. We supply a wide range of steel, textile, or composite products, and we offer product-spanning and competent advice on more than 20.000 articles. This 516-page catalogue is a comprisal of technologies pertaining to ropes, lifting equipment, slinging, and load securing technologies. Apart from the product information and technical specifications for each article, you will also

find information on the proper use of each product and its advantages for you. All applicable safety regulations like the BG-rules (formerly UVV) and industry standards (EN or DIN) are fully factored in and complied with. On top of this, we participate as a leader in national and international standardization committees. This results in advanced knowledge of tomorrow's standards, which in return leads to early development of safe products and the implementation of safe operating procedures.

Our excellent overall competency is reflected in an extensive array of maintenance and service packages, which I highly recommend to all of our customers, whether it be the competent and individualized pre-purchase consulting or our mobile inspection, maintenance, and repair service. We also offer expert-training seminars – even onsite at your company's location.

We are proud to offer you this great portfolio of products, services, and maintenance at fair and competitive prices. We do manufacture our entire product range in-house, fully utilizing lean production processes according to DIN EN ISO 9001 und 14001. Our quality management system incorporates an ecology management system, which helps us to reduce the use of materials and does allow for an efficient, "green" manufacturing

approach. This reduces the use of natural resources, helps to bring down costs, and puts us in a position to offer you our "competence in pricing".

For 75 years, we have enjoyed meeting the demands of our customers and keeping them content. When you get in touch with us, you will realize that we really do look forward to serving you.

Greetings from Dortmund, Germany.
Sincerely,

Udo Dolezych

Dolezych

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About us

Dolezych produces all types of lifting and lashing systems - including ropes, web slings, round slings, sets of chain slings, and lifting equipment like lifting beams, grabs, cranes, and load securing devices. This is why Dolezych has the expertise in the fields of lifting, ropes, slinging and lashing technologies. We can provide the best product for any particular application.

Company owner Udo Dolezych asserts his corporate philosophy: "All specialized products like ropes, chains, web slings, round slings, lifting devices, and lashing systems have specific advantages for use. Our customers get the product that best matches their particular needs."

On top of this we offer comprehensive services like pre-sales consulting, inspection, maintenance, repairs, and expert training.

Safety

Safety means: eliminating risks. High-quality products and the know-how regarding proper use minimize your risk in daily operations. We strive to assist you by

- providing the highest expertise in consulting
- expert training for your staff
- on-site inspection services
- expert assistance by telephone and by field sales representatives
- unambiguous and clearly visible lifting capacity markings on all tie down devices and complete labeling on all lashing materials
- GS- and CE-markings where possible according to formal regulations
- Manufacturing according to DIN EN in observance of all UVV and BG-regulations respective all technical rules for occupational safety and branch regulations (e.g BGR 500, section 2.8), last revision in 2004.



Professional Experience

For 75 years, Dolezych has been committed to safety when lifting, transporting, and safeguarding loads of all kinds. We know what it takes to stay safe and secure.

Please feel free to utilize the professional experience of our staff. They will gladly assist you in finding solutions even for the most complex problems in lifting technologies and load securing.



Dolezych supplies safe products - but safety can only be assured when all instructions for use and occupational safety regulations (BG, formerly UVV) are strictly complied with. Safety is a result of combining safe products with the proper handling!

Seminars and trainings

People responsible in the lifting industry or in freight forwarding must obtain comprehensive information, consistently expand his know-how and update it regularly. Therefore, the seminars and training sessions organised by Dolezych have already established themselves as a famous institution. Our renowned lecturers design the seminars in a lively and attractive way. Interesting presentations with comprehensive illustrations, video demos and practical handling demonstrations will be awaiting you.

We do reward active participation in our seminars with a certificate of achievement.

We offer one-day and two-day seminars on the following topics:

One-day seminars:

Load securing

Experienced and independent experts inform on the most frequent misjudgements when securing loads and will provide practical ideas. A constructive, guiding help in finding a solution for a problem are the Dolezych simple method and the DoMess pre-tension force indicators. Proof of this is provided by a practical demonstration on a fully loaded truck.

The following aspects are covered in detail in the seminars:

- Legal responsibilities for secure loading of goods onto trucks
- Examples of correct load securing
- Help with selecting and checking of lashing systems
- Strength of lashing points and structures (posts, cowls, front and side and tailgates) and truck frame
- Practical help when calculating the lashing forces without complicated calculations

Dangerous goods - a practical approach to lashing

This seminar deals especially with the topic of dangerous goods and, in addition, also with the general rules for proper load securing of course, because the same physical laws apply for dangerous goods as they do for other transport goods. Experienced specialists provide practical ideas, especially in regard to dangerous goods regulations.



Lifting equipment

Competent, independent experts report on their experience handling lifting equipment and provide help making decisions for the best use. You will get an insight into DIN EN norms, health and safety regulations or the European (machine) guidelines replacing the UVV and frequent sources of mistakes when lifting and transporting. A seminar for experts, safety engineers and everybody responsible for lifting equipment in the hoisting and load securing industries. The following topics are dealt with in-depth in the seminar:

- Help with selecting lifting equipment and other load-bearing equipment, such as crossbeams, tongs, grippers, etc.
- Basic terms of mechanics from a safety perspective - experiences and comprehensive examples from lifting techniques
- Wire ropes as lifting equipment - application guidelines, wear and tear, criteria for disposal
- Round steel chains - manual for use, wear and tear, discarding criteria
- Training of slingers - proof of knowledge as per BG regulations (BGR).

Personal protective gear against falling from heights

When working at heights protective measures are required. If no technical equipment can help, the personal safety equipment must provide the necessary safety. Our "Personal safety equipment against falling" seminar provides you with an overview of the various systems and explains how the various components are used.

Moving wire ropes

This seminar provides you with important information to do with the topic of wire ropes for cable-operated machines, such as cranes, excavators, etc. We provide you with tips on selecting, handling, installing, inspecting and maintaining the correct rope and highlight possible sources of mistakes which can result in a reduction of the rope's lifespan.

Two-day seminars:

Apart from one-day seminars, we also offer two-day seminars which are custom-tailored to the needs of trainers, safety managers and experts. Thanks to fewer participants compared to the one-day events, the learning and training effect is even higher. Here we offer seminars for the following topics:

Safe lifting – theory and practice

Additionally to the seminar contents of the one-day lifting seminar (see pg. 5), the two-day seminar includes further presentations on the topic of lifting gear in hoist operation. The focus is on the applications: practical exercises are carried out on the crane with ropes, chains, web slings, round slings, grippers and tongs.

In addition, a practical inspection (criteria for disposal) of the lifting gear (i.e. by magnetic rip inspection) is carried out. In small groups, we will have sufficient time for discussions of individual questions.

Load securing - lashing made easy for practical applications

In this seminar, you will learn everything from close-up regarding "load securing". In addition to the topics of the one-day seminar (see previous page), experienced lecturers show you by applied tests and driving demonstrations how various transport goods are secured quickly and properly. See with your own eyes what forces affect

the load while driving and braking. We report on the most fre-



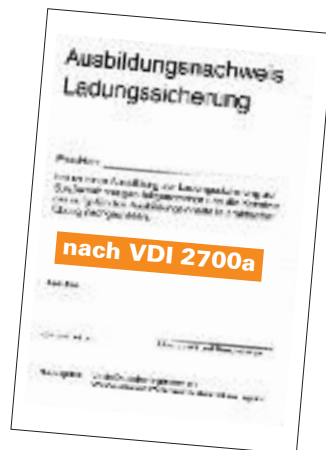
quent misjudgements and provide valuable tips. The participants have sufficient opportunity to debate and exchange their experiences with the lecturers from the police, professional associations and Dolezych staff.

A constructive, guiding contribution to solving problems are the Dolezych simple method and the DoMess pre-tension force indicator which is indispensable for lashing. The Dolezych simple method sets new standards, as it allows in a remarkably easy way for

the selection of the correct lashing system.

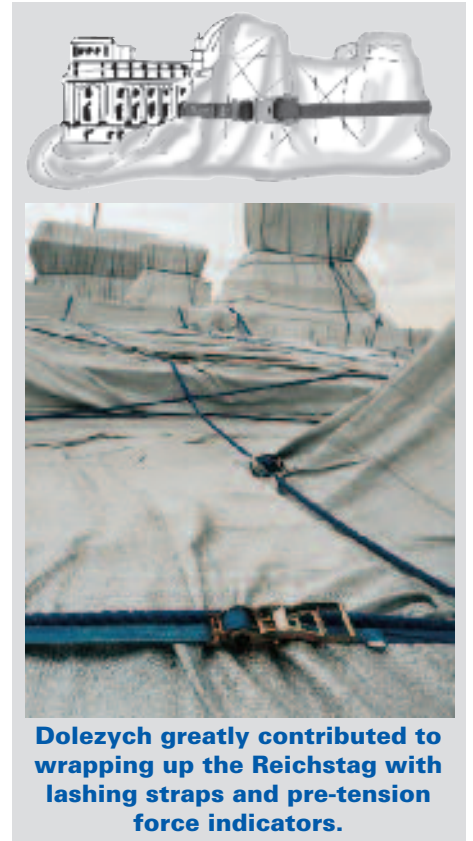
Benefit from this unique opportunity to get quick, comprehensive and practical information on load securing.

All participants of the 2-day load securing seminar do obtain, in addition to their seminar certificate, a training certificate as per **VDI 2700a**.



Detailed information on the current dates and the application forms for our seminars can be found on the internet at www.dolezych.de.

Would you like to receive training on-site, at your company's location? No problem! We will be happy to visit you, provide the entire training materials and compile a tailor-made programme for you.



Dolezych greatly contributed to wrapping up the Reichstag with lashing straps and pre-tension force indicators.

24-hour service

Use our 24-hour service for standard and warehouse items in stock:

Orders with delivery addresses within Germany, which are placed by 12pm, are dispatched the same day from Dortmund and are received the following day at the latest. Please allow some time for production.

For those who are in a special hurry: if the goods are not to arrive the following day at a certain time, please inform us. The dispatch is then made with a smaller surcharge than with scheduled goods.

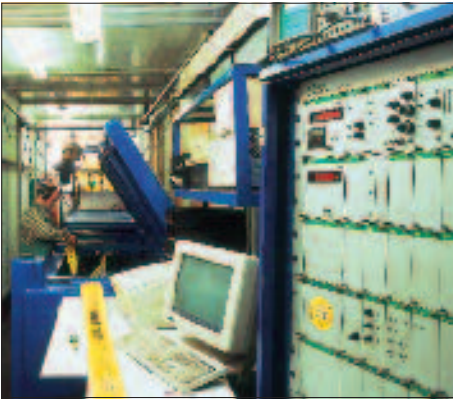
Customers in neighbouring European countries receive our products within 2 to 3 days.

By the way: Dolezych is the inventor of the 24-hour service in its industry.



Quality and environmental protection

Quality management and environmental protection are core components of our company philosophy and policy: the quality and reliability of all Dolezych products is a top priority. This is why already the release certificate of incoming goods check for raw materials is an important document for the further processing and tailoring. Suppliers are granted their status only if they meet the high quality standards of Dolezych – an important guarantee for your safety. The additional internal checks are very strict. Consistent spot checks are taken from the ongoing production; no area (be it rope, chain sling, web sling, round sling, lashing strap or lifting appliances) is exempt.



Dolezych is doubly certified by DIN EN ISO 9001:2000: once for the QM system and, as a special feature, additionally for the **professional manufacturing** of the products (so-called module D). In addition, the Dolezych's environmental management system is certified by DIN EN ISO 14001.



This guarantees professional handling while saving of, for instance, the resources used, also by using new, ecologically friendly technologies. For us, quality, clean production processes and therefore a clean environment are obligations of a responsible company

Dolezych's inspection, repair and maintenance service

available for all lashing systems (wire ropes, web slings, round slings, chains), load securing and lifting gear – even if it is not a Dolezych product.

Plus: stress tests for chain hoists, winches, lifting clamps and hand pallet trucks. You can select whether this inspection of materials and safety procedures is to be carried out at your company or on our premises in Dortmund.

Additional information on the inspection services can be found on the following pages.

It is your choice: if you request the **Dolezych service van**, all necessary inspections can be carried out anywhere you like. Or you can send us your products to be tested. The maintenance and inspection service is performed immediately.

Good advice requires information. So please note: the better you inform us of the operational circumstances, standard handling or special features of your company, for instance, the better we can provide consulting services to you.



We would like to help you to maintain the operational readiness of your products and to extend their lifecycle through systematic maintenance.

Please observe the operating instructions for the individual products in this catalogue. Special inspection instructions are available to you on the internet at www.dolezych.de for download.

Dolezych will also be happy to perform inspections for you. This saves you time but also means you will be on the safe side.

You will of course be automatically reminded by us of dates for follow-up inspections.

The Ordinance on Industrial Health and Safety represents the legal framework for the inspection of lashing equipment, lifting equipment, lifting devices and "personal safety equipment".

For all technical tools, such as lashing equipment (web slings, round slings, ropes, chains) it does apply that they must be regularly inspected in accordance with Section 10. The proof of testing must be updated in accordance with Section 11. The time delay must be determined in accordance with the operational circumstances after a risk assessment. In accordance with BGR 500 (formerly UVV VBG 9a) an inspection however must be carried out once a year.

Examples for inspection and repair of your lashing equipment, when applicable:

The Dolezych inspection service for lashing equipment includes:

- the annual visual inspection by an experienced specialist in accordance with the valid norms, such as DIN EN 1492 T1/2 web slings and round slings
- the carrying out of repairs needed
- the creation of inspection certificates
- the safety inspection is documented by the expert by entering results in the chain register, for instance.

The inspections may include, e.g.

(These details are only excerpts; the complete scope of inspections can be found in the Ordinance on Industrial Health and Safety)

for wire ropes:

Visual inspection for

- Bends and kinks
- Breaking of a strand
- Loosening of the outer layer
- Cable breaks in large numbers

for natural fibre ropes:

Visual inspection for

- Breaking of a strand
- Falling out of fibre flour when unwinding the rope
- Damage due to damp storage or influence from aggressive materials

for chemical fibre ropes:

Visual inspection for

- Breaking of a strand
- mechanical damage, excessive wear and tear or loosening
- Damage due to the influence of aggressive substances

for chemical fibre slings / round slings:

Visual inspection for

- Damage to the woven edges or the structure and yarn breakages in great numbers, e.g. more than 10% of the total yarn number in the cross-section which is affected worst
- Strong deformations due to heat, e.g. through internal and external friction, heat radiation
- Damage of the coating or its seam in slings made from continuous chemical fibres

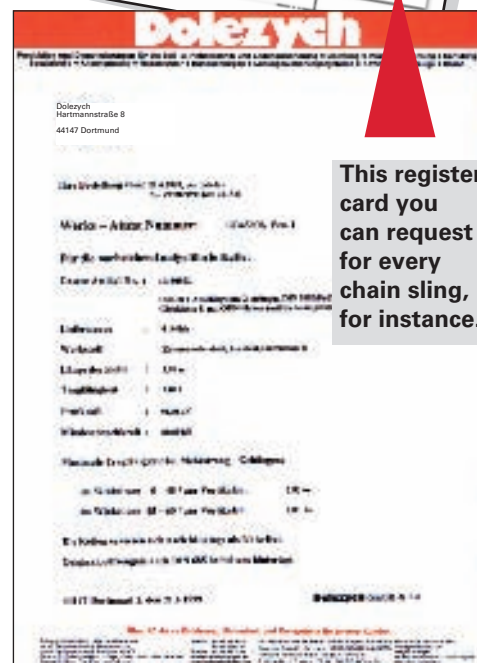
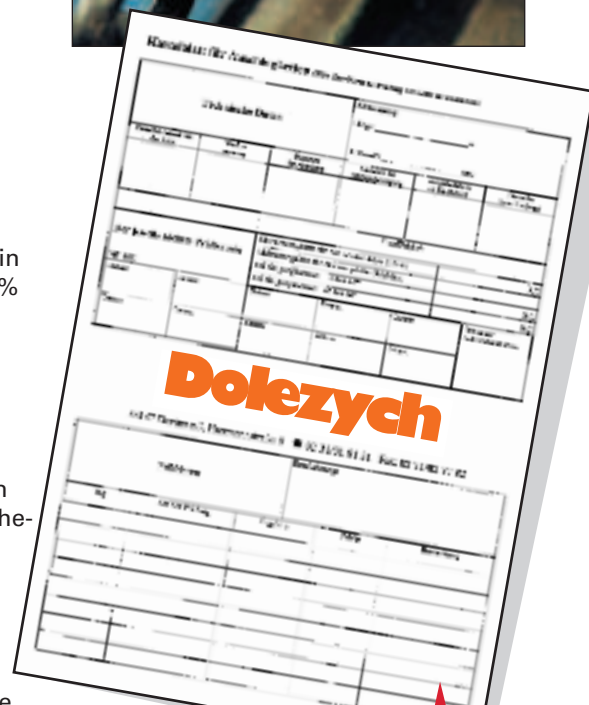
for round steel chains:

Visual inspection for

- Breaking of a chain element
- Cracks or corrosion hampering the load-bearing capacity
- Deformation of a chain element
- Elongations of the external chain dimension by more than 3%

As per BGR 500 (formerly UVV VBG 9a), chain slings must be tested at least once a year by an expert. Every three years a special inspection for absence of tears must also be carried out.

The inspection is carried out at your premises, at the place of use or at our plant. It is up to you. Please note that chain connection elements and bolt connections will be dismantled properly. Damaged parts are to be replaced with original parts only.



This register card you can request for every chain sling, for instance.

New! The DoQM system for easy management and documenting of the lashing equipment inspection.

The Ordinance on Industrial Health and Safety (BetrSichV) in effect since October 2002 puts new demands on all operations which use lashing equipment. The annual visual inspection previously prescribed here (exception: chain slings with additional inspection requirements) is replaced by variable inspection intervals and comprehensive documentation obligations.

Section 10 Inspection tools

(2) If tools are subject to influences causing damage which may result in dangerous situations, the employer shall inspect and try out the tools in accordance with the periods prescribed by Section 3(3) by persons authorised to do so. (...)

Section 11 Records

The employer must record the results of the inspection in accordance with Section 10. The body responsible can demand that these recordings are also made available to it at the place of operation.

The records must be kept over an appropriate period, at least until the next inspection. (...)

We know from experience that the prescribed unique identification of the objects to be tested and the documentation of the inspection, in particular, do represent a special challenge. In particular, companies which use a large number of lashing systems know this problem.

Dolezych has therefore developed an easy-to-use and safe solution: a unique labelling system and software especially developed by us. It can be used to identify all lashing equipment 100%, every inspection is recorded and all relevant data saved.

What the software does:

- Management of all inspection objects, not only the lashing equipment, but also load securing equipment or machines, systems, hoist vehicles, chain hoists, rolling gates, i.e. everything which has to be tested according to UVV.
- Definition of individual inspection intervals for every item.



- Printing of inspection forms, master cards, lists sorted by place of storage.
- Printing of inspection suggestion lists. This allows you to know precisely what, for instance, has to be tested in the following week.
- All test results can even be saved with an assigned image.
- Network-enabled, client-enabled, and more ...



DoQM-RFID Transponder

DoRFID

DoQM-RFID The tried and tested DoQM system is receiving additional support.

So far the user had to mark his products manually for this to be unique and had to import the data into a register or a database. With the introduction of the DoQM software, this already became a lot easier, because standard products and associated inspection requirements were already available in the data master and only the assignment and marking between product and database entry had to be carried out.

As of now, it is even easier: all Dolezych products can – if technically feasible - be equipped with an RFID transponder and are thus automatically marked. Using the reader, these products can then be easily identified and imported into an existing product database (e.g. DoQM).

What does RFID mean?

The radio frequency technology for identification purposes (RFID) is based on the transponder technology, an electronic, machine-readable label and an associated reading unit. This means that an RFID system consists of two components, a reading unit and the transponder.

The transponder receives its energy from the pulses of the hand-reading device and is therefore maintenance-free. The hand-reading device sends electromagnetic pulses via its aerial antenna. The electronic label (the transponder) receives these pulses and sends its saved information to the reading unit.

What are the areas of application for DoQM-RFID?

In general, transponders are used wherever things are identified or data is

saved to objects (process and warehouse control, stocktaking, container identification, but also access control and time recording). The application in rope, lifting and transport technologies offers new options, in particular, as regarding future-oriented and effective labelling to secure traceability. This is why: lifting and lashing equipment must be for instance, as per the applicable norms, regularly inspected by the user and these tests must be documented as stated in BGR 500:

Section 10 Inspection tools

... (2) If tools are subject to influences causing damage which may result in dangerous situations, the employer shall inspect and try out the tools in accordance with the periods prescribed by Section 3(3) by persons authorised to do so.

...

Section 11 Records

The employer must record the results of the inspection in accordance with Section 10. The body responsible can demand that these records are also made available to it at the place of operation. The recordings must be kept over an appropriate period, at least until the next inspection.

If tools which are subject to Section 10(1) and (2) are used outside of the company, a certificate of carrying out the last inspection must be supplied with them.

How does the DoQM RFID system work?

Dolezych products can be fitted with RFID transponders on request. Via a handy, mobile reading device, the data (a 16-digit code number) saved on the product (in the transponder) can be exported and automatically imported into the DoQM program or into a software (Excel, etc.) used by the customer. The identification takes less than one second. The distance between transponder and reading unit should be between 10 and 30 cm. The code number transmitted by the transponder can be linked in a database to all

important product information, such as the date of the last inspection, the next inspection date, the name of the tester, etc.

With the RFID technology, Dolezych increases the safety at work. The lashing or lashing equipment or the inspection carried out is uniquely documented and assigned to the product for a long period. This allows comprehensive and economically sensible product documentation which complies with the documentation requirements in accordance with BGR 500.

Using read/write transponders in combination with a read/write unit can also be sensible. Specific product data can then be directly saved to the respective product.

Feel free to contact us to discuss this option of product labelling.



- Scanning a web sling with a read unit
- The data is imported into the DoQM software



Data is imported by DoQM software

Benefits of DQM-RFID:

- Every lifting/lashing equipment which is equipped with a transponder is automatically clearly identified through a read-only transponder by an uneditable 16-digit number. For writable transponders, any 16-digit number can be saved and exported or changed.
- The benefit of the DoQM transponder compared to traditional labels is that the reader requires no optical contact with the label (transponder), e.g. in order to establish whether the web sling was tested.
- If the traditional label is lost, the product can still be clearly identified via the transponder.
- The transponder is integrated on or into the product and is in the area of the loop for web slings.
- The Dolezych transponder has been tested under extreme conditions (humidity, knocks, etc.) and has proven to be very reliable.
- Due to the small design of the transponder, it does not disturb or interfere when used.
- Your own lifting/lashing equipment can be distinguished from external products which have entered into operation.
- RFID has a long lifespan and can be fitted to the product inconspicuously.
- Data can be immediately imported into existing software systems (Excel, etc.).
- Simplified stocktaking.



RFID transponders are available in different designs

Self-packaging

Would you like Dolezych products made from metal or textiles in a visually pleasing packaging? With your logo on the packaging, you can turn the products into your brands.

By standard, we offer have three packaging alternatives.

The benefits of all three packaging alternatives are clear:

- Protection from dirt, dust, humidity
- Clear labelling: e.g. clearly visible indication of the load-bearing capacity and the maximum duration of usage for each of the items
- Individual print-ons possible, e.g. EAN code
- Easy disposal of the packaging

Blister packaging

Especially suitable for smaller products if a particularly high-quality design is required.

- Optimum protection of the product
- Numerous design options for the packaging
- Perfectly suitable for sales displays



Bag packaging

Ideal for small and lightweight products.

- A clear view of the product is ensured
- Design options through insert and/or slider design
- Very suitable for sales displays



Shrink film packaging

Recommended when large and heavier products are to be protected.

- Water-proof shrinking protects very well against dust, dirt and humidity
- Attractive, compact and sales-friendly packaging with additional, individual design options



Dolezych product stand

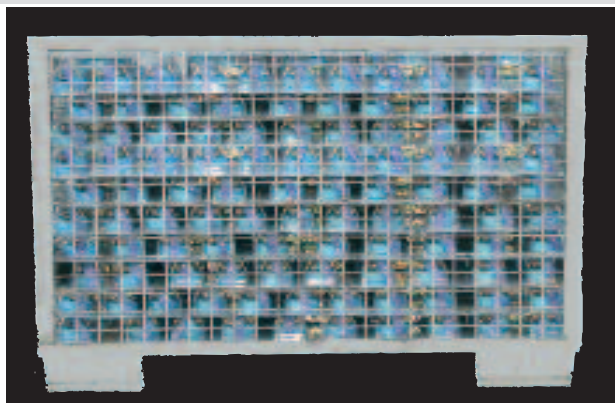
On request we will be happy to offer you various product stands with placing for individual products. Ideal for sales offices, trade fairs and presentations.



Packaging units

Space-saving packaging units in cardboard, on pallets or in lattice boxes ensure simpler storage logistics. Benefit when accepting these standardized production and packaging quantities from your cost advantage compared to small amounts.

- Space-saving storage logistics
- Simple handling
- Price advantage



www.dolezych.com – our special service for you

Visit us on the internet: our site www.dolezych.de connects the information contained in our catalogue with current news, offers additional information and interactive applications, such as the Trucker's Disc.

www.dolezych.de is part of our service spectrum for you. In six languages, we have compiled interesting facts on "secure lifting and transporting" for you. Plus: our company philosophy, Dolezych Aktuell - the customer magazine to read online and download or the call-back service.

Concise, up-to-date and informative. Integrated search functions allow you to find the information you are looking for at the click of your mouse.

Our online service at a glance: Product information

The entire product range at a glance, with images and useful information. Plus: product news and special offers.

Book tips

For safe use of our products, we have compiled the current publications regarding load securing and lashing for you. You can order the books directly online. Please also note our book recommendations on page 12.

Seminars

All current dates of our training sessions and seminars are listed. With the online application form, you can comfortably register for the seminars of your choice and the downloadable directions diagram makes the arrival to the respective site all the more easy.

Download

Profit from our Know-how! Download the technical essays on "secure lifting and transporting". Have a look at the excerpts from our training videos or get updates on the latest laws and regulations.

Benefit from our rental service. Rent our lifting gear at a low cost via the online rental service.



Dolezych interactive

For frictional and diagonal lashing, establish "your correct" load securing interactively with the online **Trucker's Disc**.

The easy way! The route to the right rope. What steel wire rope for what application? Establish it online.

Inspection service requests

We offer an inspection service for all lashing systems (wire ropes, web slings, chains), load securing equipment and lifting gear - even if they are not Dolezych products.

Order the inspection service online!

Online shop

Just order by the click of your mouse. Especially interesting is our online shop with ordering options around the clock: please select from our comprehensive product range.

Placing an order is a piece of cake: click on the requested products, state the length and equipment variant, where applicable, enter the number of units and then place the order in the basket. As a registered user, you can then order this basket.

In order to be sure to receive the correct products, we will send you a confirmation e-mail where you can check whether everything has been received properly at our end.

Dolezych reference books:

Basic knowledge of secure lifting of loads and for correct load securing are indispensable for users. With the large number and complexity of technology and physics, it is often difficult to keep everything in mind. But: knowing where to read up is enough. Concise, easy to understand and comprehensive information is prepared for the reader. Examples and practical exercises, news regarding the legal background and most norms to be considered by you make the books your indispensable helper.

Our special recommendation for you:

The title "Secure lifting of loads"

Loading staff are particularly responsible when moving loads, because mistakes can have fatal consequences here or result in severe injuries. Not only the loader itself, but also his colleagues and even uninvolved persons can be at risk. Furthermore, the company risks major damages. It is therefore crucial that the loader is a trained expert.

The reader is given vital information on the following topics:

- Basic terms / rules when lifting
- Selection of lifting equipment
- Storage and inspection of lifting equipment
- Carrying capacity tables for various types of lifting equipment
- Legal basics (laws, provisions, regulations, norms)
- Organisation of external lifting equipment examination
- Risk assessment

The book "Load securing" is oriented towards anybody involved in transporting: the driver, the loader, the vehicle owner, but also the sender and the freight forwarder, because they are all responsible for load securing.

The book discusses the responsibilities of the individual persons involved in the transport. Exemplary illustrations also clarify the details. A check list is added at the end of the book which provides useful help before, during and after loading so nothing is left to chance.

The following areas of focus are included in the book:

- Legal and physical bases
- Requirements for the transport vehicle
- Various types of load securing
- Establishing the required safety forces
- Lifting equipment and other tools for load securing
- Examples and practical exercises

This practical manual serves as a basis for work for all persons involved in the transportation of goods and serves as an important contribution to promote traffic safety.

Order your reference book on page 514.



Ladungssicherung

Ratgeber und Produktführer für die Praxis

- Rechtliche Grundlagen
- Physikalische Grundlagen
- Anforderung an das Transportfahrzeug
- Ladungssicherungsverfahren
- Erforderliche Sicherungskräfte
- Zurrmittel
- Hilfsmittel zur Ladungssicherung
- Ladeinhaltenbildung
- Praktische Beispiele der Ladungssicherung

Web slings

Roundslings



Eye slings

Stirrup slings

Endless web slings

Roundslings

Web sling suspensions

Roundsling suspensions

Sharp-edge protection

Wear protection

Impact protection

Specially built components

Eye slings Stirrup slings Endless web slings Roundslings

Dolezych produces web slings and roundslings made of polyester (PES), polyamide (PA), and polypropylene (PP) exclusively according to the latest European Standards DIN EN 1492-1:2000 and DIN EN 1492-2:2000.

Dolezych is the German delegate at the European standardisation body. Furthermore we are in close contact with the professional employer's liability association in Hannover which is the responsible body. This know-how is reflected in Dolezych's products and adds to the advantages for the user.





A number of advantages speak for the use of textile lifting devices:

- high working load limit with low own weight
- problem-free agreeable handling
- no electrical conductivity
- close adjustment to the loaded goods, especially with roundslings
- protection of loads
- no risk of injury to personnel
- can be transported and stored in very small spaces
- colour-coded load capacity
- long service time and high durability
- high wear resistance

Dolezych produces and checks for quality

Safety and quality are inseparable from another. Our in-house production is subject to the highest standards of care and quality. That is why we are certified according to DIN EN ISO 9001:2000. Thanks to our workers' attitude, which is oriented towards fulfilling these standards, we guarantee the highest safety in the production of web slings and roundslings. Yet, this is not sufficient for Dolezych: additional in-house tests on self-owned inspection machinery are permanently conducted and documented – from the incoming raw materials to the final inspection.

Overview of eye widths and eye types

Overview of eye widths and eye types		flat eye						inverted eyes					
band width mm	number of layers	normal reinforcement			full reinforcement			normal reinforcement			full reinforcement		
		A			B			C			D		
		1/1	1/2		1/1	1/2		1/1	1/2		1/1	1/2	
1/1	1/2	1/3	1/1	1/2	1/3	1/1	1/2	1/3	1/1	1/2	1/3		
30	1	O	-	-	O	-	-	X	-	-	X	-	-
	2	X	-	-	X	-	-	O	-	-	O	-	-
	4	X	-	-	X	-	-	-	-	-	-	-	-
50/ 60/ 75	1	O	O	-	O	O	-	O	X	-	O	X	-
	2	O	X	-	O	X	-	O	O	-	O	O	-
	4	O	X	-	O	X	-	-	-	-	-	-	-
90 to 300	1	O	O	O	O	O	O	O	O	X	O	O	X
	2	O	O	X	O	O	X	O	O	O	O	O	O
	4	O	X	-	O	X	-	-	-	-	-	-	-

X = standard

O = possible

- = not possible

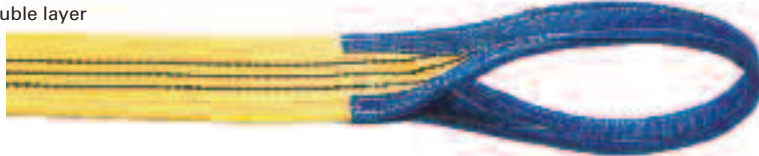
Standard reinforced flat eye 1/3 A double layer

x



Full reinforced flat eye 1/3 band width 1/3 B double layer

x



Normal reinforced inversed eye 1/2 band width 1/2 C single layer

x



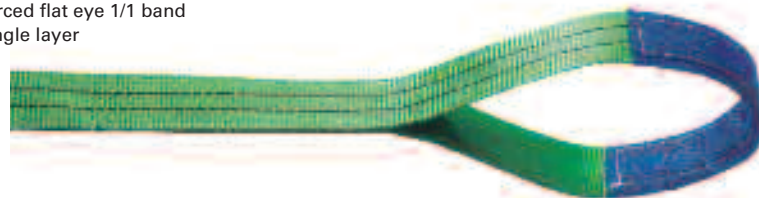
Full reinforced inversed eye 1/2 band width D 2-layer

x



Normal reinforced flat eye 1/1 band width 1/1 A single layer

0



The result: Dolezych products are Germany's top rate web slings and roundslings. Inspection certificates of neutral national and international inspection offices confirm that all safety regulations are met at the highest quality standards.

Width and thickness:

Textile web slings should, in regard to their width, meet the demands of practical applications. They should also have the required depth (two, three, or four layers) to prevent wear. Narrow web slings of the same working load limit are usually deeper than wide ones. Decreasing width of the sling naturally decreases stability of edges and traverses. This effect reverses with increasing depth.

Wide web slings are useful for hanging loads and especially in combination with traverses. Narrow web slings have advantages for diagonal tension due to their compact construction design. They can also be used for choking procedures.

Wider web slings offer a good support of the area. Dolezych therefore has developed the ideal fabric design for sensible and practical sling width. The fabrics additionally excel in edge stability and resistance against wear and ultraviolet rays.

Sling widths and eye types:

We provide web slings with different types of loops depending on width and the number of layers (see table below). We deliver a standard of single reinforcement (normal reinforcement) unless you order something different. Full reinforcement offers full protection for the eye in a crane hook, increases stiffness and thereby facilitates e.g. the fastening of a web sling under load. Upon request, we also deliver special loops which can be optimized to the size and type of crane hook as well as specially reinforced loops. We make use of a stable wear resistant rope corpus woven as eye reinforcement. In the table below you find an overview of all technically feasible eye widths.

DoColor- the logical Colour code

A standardized DIN EN colour code is mandated for all roundslings (made of folded fibres) and web slings (made of woven fibres). Accordingly, Dolezych's web slings and roundslings of the same colour have the same working load limit.

Web slings and roundslings with a working load limit of e.g. 1000 kg are violet, ones with 5000 kg are coded in red and 8000 kg in blue. The standard colour code for carrying load capacities above 10000 kg is orange.

Elongation:

Dolezych produces web slings and roundslings made of polyester (PES), polyamide (PA) and polypropylene (PP), which are the appropriate materials according to the standards DIN EN 1492-1 and 2.

As a standard procedure, all three materials are being thermoset and pre-stretched. This means that, additionally to dyeing and smoothing, each material receives an exactly determined elongation capacity for both working load limit and tearing load.

If the elongation capacity is too high, a so-called rubber band effect will occur. If the elongation capacity is too low the buffering capacity, which is extremely useful and important, is lost. That is why it is important that the web sling retains a certain degree of elongation. The EXAM BBG Bochum has attested a higher elongation capacity of web slings compared to other lifting devices in fall inspection experiments.

This means for practical use that different materials should not be used in pairs due to different elongation capacities, e. g. PES web slings should not be combined with PP- and PA web slings. In the worst case, the weight will hang lopsided and may slip. Also, the combined use of products from different manufacturers can lead to problems concerning the lifting if non-optimized fabric constructions are used which result in higher elongation.

Roundslings, when compared with web slings of the same lifting capacity and material, offer slightly lower elongation capacity, because interwoven stirrup slings are more flexible than roundslings made of folded fibres.

Eye slings Stirrup slings Endless web slings Roundslings

Identification / Labelling DoMark for woven web slings

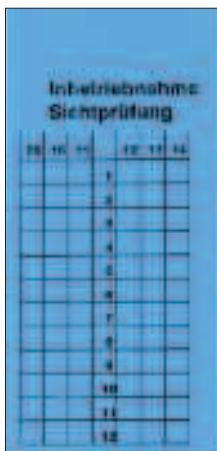
Upon request, Dolezych provides the **DoMark**, an easily recognizable and unambiguous label for the identification of the material and its working load limit in addition to the standard marking. Each web sling carries letters and numbers like e.g. PES 3000 kg for a woven polyester web sling with a working load limit of 3000 kg. It is a woven distinguishing label which is sewn onto a large area and cannot be lost or torn off. This label is visible over a significantly longer period of use; even in rough or rather dirty conditions.



DoDate – the additional data-carrying label for web slings and roundslings

For use in higher temperature ranges, Dolezych has made an enormous progress in labeling: DoDate labels will permanently protect all product related data in high temperature environments (up to 90°C) - no melting, no embrittlement, and full resistance against tearing.

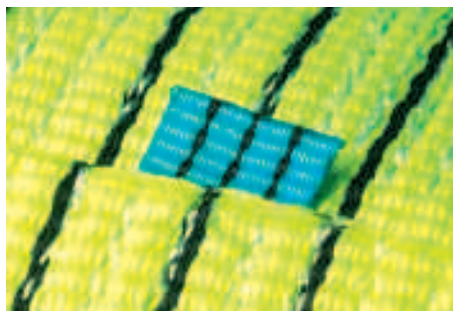
The additional label contains a textile layer and is used as a data carrier for internal documentation, if the time of start up and the following visual inspection are to be marked on the product.



Doldent – the additional product code for web slings

At an extra charge, we provide web slings with additional Doldent labels. Annually changing colours and quarterly changing barcodes show the time of

production (one bar for the first quarter to four bars for the fourth quarter). These can be used as a distinctive visual coding feature in your business. Doldent labels cannot be torn off or lost, and they can be identified any time.



DoPremium

Web slings and roundslings of premium class are top rate products at your disposal.

The **DoPremium web sling** is constructed to exceed the required safety regulation standard by far (approx. by factor 10 instead of 7). In addition, they achieve better results in stability concerning compression, traverse compression and heat resistance.

The **DoPremium roundslings** fascinate users because the quality of its tube is comparable with a web sling concerning construction and depth. That leads to higher resistance against wear, compression and traverse compression. At the same time there is better traverse stability in comparison with standard roundslings.

Why three materials for web slings and roundslings?

Dolezych produces textile web slings from polyester (PES) as well as from polyester amide (PA) and polypropylene (PP). Different materials are being manufactured in order to meet different demands in practice. PES, PA, PP do not only differ physically or chemically

but also e.g. in grip, stability and resistance against wear, compression and heat. Ask for our advice as to which material to use. Polyester and polyester amide can be used according to standard in a range between -40°C and 100°C. Polypropylene can be used between -40°C and 80°C. All three materials are resistant against oil and rotting. Polyester is more resistant against acids whereas polyamide is more alkali-resistant. Here we must emphasize that resistance rates depend on chemical concentrations, temperatures and duration. Ask Dolezych for additional information in any case.

Codes for material / label

Woven web slings that have strengthened loops are denoted according to the corresponding material: PES = blue, PA = green, PP = brown. Woven web slings and roundslings are designated by a label containing information about working load limit according to certain types of hooking, manufacturer, material, and the date of manufacturing.



PES = blue label
PA = green label
PP = brown label

One way web slings according to DIN 60005 carry an orange label.

Material

Being a specialist for web slings, Dolezych provides a standard range of products offering the best properties for different applications. Due to the characteristics of the material, PA has a 10 % lower breaking strength when wet compared to dry status. Dolezych takes this into consideration in advance during the production process. This means that even in a wet state all web slings and roundslings made of PA have 100 % working load limit (as marked on the label). Dolezych uses the material P6 (which meets and exceeds all safety standards)

for the production of Polyamide web slings and roundslings. Dolezych also routinely tests new materials like aramid fibre (Kevlar). Do you have special demands? Please feel free to contact us!

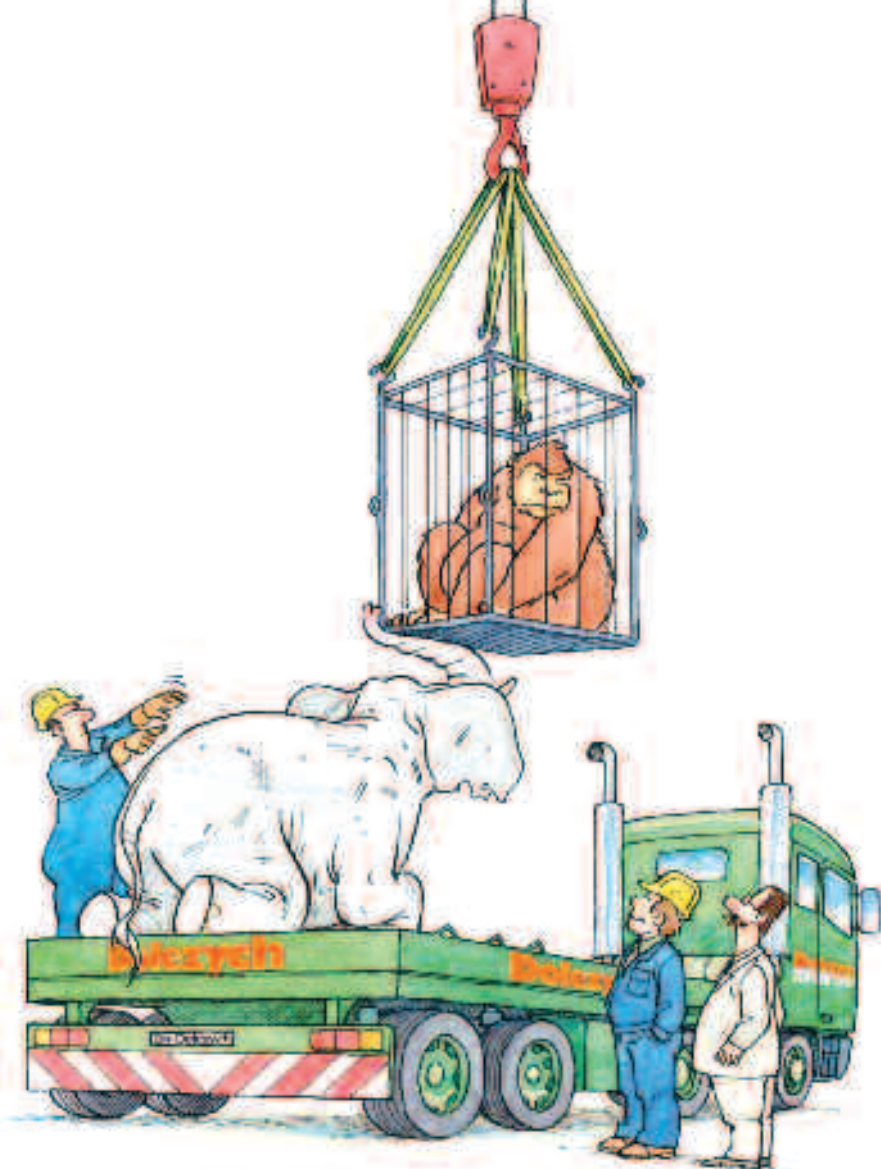
DoLex

DIN EN 1492 defines protection against sharp edges, chafing and wear on sides of the load as well as on the sides of the lifting device. Web slings and roundslings consist of either woven or

folded fibre material which has to be protected during certain lifting procedures. Research and development has led to a variety of solutions for sharp edge protection.

DoLex sharp edge protection is stable enough for lifting even sharp-edged loads. You find information on DoLex on pages 44 to 55.

In case of questions about the appropriate sharp edge protection systems, or about handling or lifting techniques, we are ready and willing to advise.



User Manual for Dolezych web slings and roundslings



Dolezych web slings and roundslings are lifting devices according to BGR 500 (formerly UVV VBG 9a) and meet all demands of DIN EN 1492 -1 and 2 + A1:2008.

According to these standards, flat woven web slings and round-slings made of chemical fibres are used for general purposes; especially for lifting and the transportation of loads.

Use is only authorized for trained personnel who have been instructed by the company. This manual needs to be read carefully before the first start-up and has to be followed strictly when using Dolezych products. It is valid only for the following Dolezych products:

- DoColor Polyester web slings (PES)
- DoForce 1, DoForce 2, DoPremium- and DoWeb-roundslings made from Polyester (PES)
- Dolezych web sling suspensions
- Custom-tailored lifting slings and roundslings, e.g. made from Polyamide or Polypropylene


We specifically refer to the following rules and regulations as pertaining to the technical specifications in:

- DIN EN 1492-1 web slings made of chemical fibres
- DIN EN 1492- 2 roundslings made of chemical fibres
- BGR 500 use of lifting devices for lifting gear operations
- ZH 1/324 note on the use of web slings made of synthetic fibres
- ZH 1/103 safety instruction letter for slingers

On top of this, all applicable special regulations have to be adhered to, e. g. in case of transport of hazardous materials.

Selection of Dolezych web slings and roundslings:

- Always select the appropriate lifting devices for the planned transport according to type, length and lifting method. The load has to be fixed safely and must not be subject to unintentional movements. Selection of the wrong working load limit and/or lifting type can cause mechanical failure.
- Web slings are inappropriate for sharp-edged loads (only with additional sharp edge protection or a suitable coating e.g. PU, of at least 5 mm strength), or in a temperature range from -40°C to +100°C (PES and PA) respectively -40°C to +80°C (PP)

 Web slings and roundslings must never be stressed exceeding their carrying capacity!

Procedures for initial use:

Before initial operation of the selected web sling, you have to check for its correct identification and dimensions. Never use a product which is damaged or without appropriate markings.




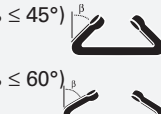



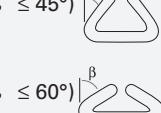
Identification of web slings / roundslings:

All Dolezych products carry the labels prescribed by DIN EN 1492-1 + 2. The label indicates:

- WLL = Working Load Limit (in tons), load capacity concerning the type of lifting
- Material: PES = Polyester, blue label
- PA = Polyamide, green label
- PP = Polypropylene, brown label
- Effective length for use (in meters)
- Year of production
- Manufacturer identification DD
- Traceability code
- GS-sign and inspection authority
- CE-sign
- Identification of the valid standards

- Working load limit for normal lifting types

Not all depicted lifting types are appropriate for every type of lifting!

vertical	choker	Basket	
LA = 1	LA = 0.8	LA = 2 ($\beta \leq 7^\circ$)	LA = 1,4 ($\beta < 45^\circ$) LA = 1 ($\beta \leq 60^\circ$)
			
			

β = inclination angle (angle between vertical and web sling)

LA = lifting type factor (related to direct working load limit)

Example: working load limit for direct 10 t (LA = 1)

Carrying capacity choker 8t (LA = 0.8)

All Dolezych web slings and roundslings are color-coded: The same color designates the same carrying capacity.

working load limit	colour	working load limit	colour
500kg	rose	4t	grey
1t	violet	5t	red
1.5t	dark green	6t	brown
2t	green	8t	blue
3t	yellow	+ 10t	orange

DoForce roundslings additionally have their working load limit printed onto the webbing in easily readable figures. DoPremium- and DoWeb roundslings have a woven-in signature.

Upon request, we provide the Dolezych-signature system DoMark stating the working load limit.


Each shipment of Dolezych web slings and roundslings is accompanied with an explanation of conformity with the EU machinery standard.

Transport of loads:

Always follow a good lifting practice: Plan the lifting procedure, the lifting procedure and the lowering procedure in advance.

1. Preparations: Determine and double-check weight and centre of gravity. Read the report papers and freight documents, pay attention to marked points for lifting and marked indications of weight. Otherwise measure the weight with a crane scale. It is NOT appropriate to just estimate the weight. Only after correct determination of the centre of gravity the crane hooks can be brought to a correct position!
2. Inform the person operating the crane about the weight of the load.
3. Bring the crane hook vertically above the centre of gravity of the load.

4. Lift and fasten the load:

 Loads can skid or fall if they are tied down incorrectly. A falling load can cause serious injuries or death.

Lift the load in a way that avoids the damage of both the load and the lifting devices.

The following has to be taken care of to avoid twisting and turning over of a load:

- a) For single leg suspensions the point of lifting has to be vertically above the centre of gravity of the load.
- b) For two-leg suspensions the points of lifting have to be even on both sides and above the centre of gravity of the load.
- c) For three and four leg suspensions the lifting points have to be even in one level around and above the centre of gravity.

Pay attention to the inclination angle β : The higher the inclination angle, the lower the working load limit. Inclination angles higher than 60° are not allowed.

Three and four leg suspensions, when loaded unevenly, must be treated like a two leg suspension depending on the highest angle of inclination concerning the working load limit.

When different inclination angles occur with two leg suspensions they have to be treated like single way suspensions. You have to expect uneven distribution of load whenever:

- The load is non-flexible (e.g. concrete parts, cast parts, short roll/bundles etc.)
- The position of the centre of gravity is unknown
- The load is formed unevenly
- Different angles of inclination occur

Use only appropriate lifting points that are of appropriate dimensions.

Never grasp or reach for anything under lifting devices! Web slings and roundslings have to be slung in a way that allows carrying loads over their complete width.

Short eyes must not be selected when using eye slings. An aperture angle of 20° must not be exceeded e.g. for lifting on a crane hook. For short eyes use reduction suspensions.

Aperture angles of more than 20° are not permitted!



Never put seams of the web slings near or into the range of the crane hook or other lifting devices under any circumstances. Avoid any damage to the label. When using more than one lifting device both lifting products have

to consist of the same material (due to e.g. identical elongation values).

Attention! Lifting is forbidden for suspended loads!

Exceptions from this rule is lifting of:

- Loads of large dimensions, if it can be ruled out that lifting devices can slip together or the dislocation of the load is not possible
- Long, rod-shaped loads under traverses if the diagonal movement of the traverse is prevented and the load does not bend too much. This does not apply if the type of load or the surface of the load or the lifting type keeps the load or parts of the load from falling out.

For lifting choker loads only eye slings with reinforced eyes must be used. Web slings with high traverse stability, e.g. with permanent coatings, can only be used for choker loads if they are equipped with metal fittings.

Working load limit for choker loads is 80% only!

When using Dolezych suspensions in a way that not all legs are necessary, attach the unused legs to the suspension head.

The working load limit is reduced corresponding to the number of legs used.

Manual for Dolezych web slings and roundslings

5. Stay clear of load area immediately after lifting and leave any area of danger.
6. Inform all persons involved in the lifting procedure. Warn uninvolved persons in the range of the transport and in the corresponding lowering danger zone.



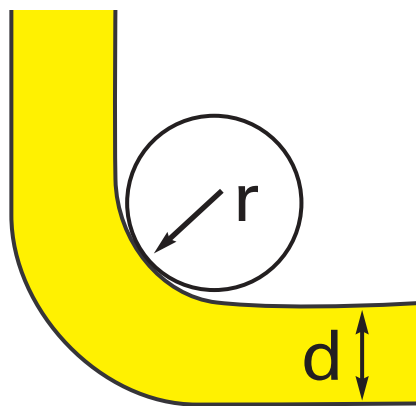
Warning: Persons in danger include all slingers and other persons staying in the transport area.

7. Give unambiguous signals to the crane operator. Only one person should give signals.
8. Trial-lift the load and check for the following:
 - a) if the load is stuck or jammed
 - b) if the load is well-balanced
 - c) if all legs carry evenly
9. Lower down lopsided loads and sling them correctly
10. Transport the load by crane
11. When transporting bulk loads or transport in windy conditions lead the load using a guiding rope or lanyard. Keep out of the danger zone e.g. by walking next to driving cranes instead of walking in front of them.
12. Lower the load following the instructions of the slinger.
13. Secure the load against falling and breaking.
14. Fasten the liftings to the suspension head.
15. When lifting lifting devices make sure they do not get entangled with the load.

Important references for use and warning hints:

- Avoid any dragging or jerking
- Never attempt to pull out the web sling or roundsling from under load
- Avoid dragging the load over a textile lifting device; never drag web slings or round slings across floors or over rough surfaces
- Never keep the load in the lifting device if any damage may result
- Textile lifting devices can only be

used for sharp edged loads or loads with rough surfaces if the areas in danger are protected. A sharp edge means that the radius of the edge r is smaller than the depth of the lifting device d .



DoLex coatings protect web slings and roundslings against sharp edges. We differentiate between DoLex web slings with a permanent coating and web slings and roundslings with movable DoLex profile hoses. DoLex permanent coatings should only be used for loads that are unable to move in the web sling. Thus no relative movements between coating and load can occur. Because of this they are inappropriate e.g. for turning procedures. In these cases DoLex hoses are favourable.



Warning: Sliding on sharp edges can destroy even DoLex coatings!

PVC-and PU-protective material or other equipment (e.g. impregnations) only protect against rough surfaces but not against sharp edges!

- Web slings and roundslings must not be knotted or be loaded when twisted.
- Roundslings must not be joined by knotting or interchoking.
- Textile products have to be protected against flying sparks resulting from cutting, grinding or welding.

Cleaning:

Web slings and roundslings have to be cleaned with clear water only without using additional chemicals. Products which have become wet through use or cleaning should be hung up for drying. Do not heat them or quick-dry them in any case.

Storage:

Before storing always examine web slings and roundslings for possible damage resulting from use. Do not store damaged lifting devices. When unused they should be stored on a shelf in a clean, dry, well-aired environment. They should be kept away from heating, chemicals, fluent gases, corroding surfaces, direct sunlight or other ultraviolet light source.

Use of Dolezych web slings and roundslings in connection with chemicals:

The materials that are used for the production of textile products (PES, PA, PP) differ concerning their physical characteristics (e.g. grip, stability and abrasion resistance) as well as in regard to different resistance against chemical influences.

Polyester is more resistant against many acids whereas polyamide is more resistant against many alkaline solutions. Polypropylene is resistant against many acids as well as against many alkaline solutions.



Warning! All materials can be destroyed or dramatically reduced in working load limit by chemicals depending on concentration, temperature and duration.

Feel free to ask the manufacturer for advice regarding the use with chemicals. If web slings and round slings have been in contact with chemicals, immediately clean them with clear water or other appropriate means. Make sure to follow the rules of safety. Even seemingly harmless acid- or alkaline solutions can become concentrated enough to cause damage by evaporating!

Use in different temperature ranges:

Dolezych web slings and roundslings are suitable for use in the following temperature ranges:

Polyester / Polyamide: -40°C to +100°C
Polypropylene: -40°C to +80°C

Contact us for information as these temperature ranges may change in a chemical environment. In temperatures below 0°C only dry lifting products must be used.

Regular inspections:

According to BGR 500, an expert has to examine lifting devices at least once a year. Use our Dolezych inspection service! We examine your lifting devices either in the Dolezych test centre, at your enterprise, or directly on-site. Depending on the operational conditions of the lifting devices inspections in shorter intervals may be necessary. This applies to intensive use, frictional wear, corrosion, heat, and if experience indicates that a higher danger of

damage is to be expected.

Over the period of use, visual inspections carried out by the user can make sure that no damages occurs which might endanger the continuous safe use.

Visual inspections also apply for metal fittings, connectors and identification markers.

In the following cases the lifting device has to be examined by an expert:

- in case of doubt about the usability
- if the identification (label or marker) has been lost
- after damages or incidents that may reduce working load limit

Examples of defects and damages prohibiting any continuous safe usage are: Abrasion of the surface, axial section or cross section, cuts or worn areas on edges, eyes or meshes, chemical influence, damaged or deformed metal fittings, cuts or worn areas on roundsling hoses, damaged protection hoses or sharp edge protection pipes.

Dolezych repair service:

If your lifting devices are damaged they can be repaired by Dolezych specialists. This helps to save your money. Never attempt to repair lifting devices yourself!

Indications for Disposal:

Dolezych web slings and roundslings must no longer be used in case of

- damage to the woven edges or woven textile or large amount of broken threads; e.g. more than 10% of the total number concerning the most damaged cross-section
- damage to suspending seams or reinforcements or the corresponding seams
- damage to suspending yarn clutch (no repair possible)
- deformation caused by heat (friction, radiation)
- damage resulting from aggressive chemicals
- deformation, tears, fractures and other damages on metal fittings
- unreadable or lost identification markers

General indications of danger:

Lifting of loads using lifting devices endangers all personnel directly under loads or next to loads. As the manufacturer, we have to remind you that residual dangers exist while operating lifting devices. This holds especially true if the connection between lifting device and load is not safe or the load swings after elevation and endangers the slingers. Falling loads do endanger persons and goods.

As a user you are responsible for good training measures of your slingers and crane operators. Several times a year, Dolezych holds its well-known "Dortmund Seminars" for all staff responsible for lifting products and securing loads. Dolezych also holds seminars on-site at your enterprise: Feel free to contact us!

Phone: 49 23 1 - 82 75 98

Eye slings double layer Eye type A

DoColor

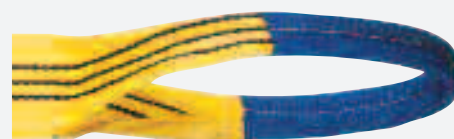
- Eye sling double layer
- tapered eye with standard reinforcement



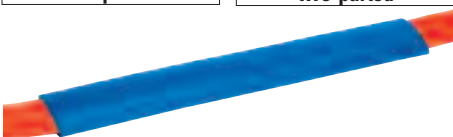
DoColor eye sling, double layer flat eye with standard reinforcement, type A

Item no.	working load limit in kg single layer	double layer	band width x depth in mm	length of eye mm	width of eye mm	min. length mm	price 1 metre	price additional metre
0561 9602	1000	2000	30 x 7	200	15	850	Price on enquiry	Price on enquiry
0561 9652	1000	2000	50 x 6	200	25	850		
0561 9622	1500	3000	65 x 6	250	35	1150		
0561 9752	2000	4000	60 x 7	300	30	1300		
0561 9762	2000	4000	75 x 6	300	25	1300		
0561 9782	3000	6000	90 x 7	350	30	1500		
0561 9792	3000	6000	140 x 6	350	50	1600		
0561 9852	4000	8000	120 x 7	425	40	1600		
0562 0002	5000	10000	150 x 7	500	50	1900		
0562 0102	6000	12000	180 x 7	550	60	2100		
0562 0202	8000	16000	240 x 7	600	80	2300		
0562 0302	10000	20000	300 x 10	750	100	2500		

Type A flat eye with standard reinforcement

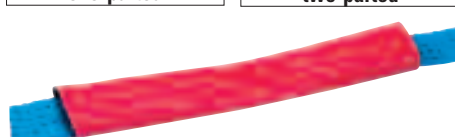


PVC protection hoses



Item no.	for web slings up to band width	Price each metre
5500 0040	30 mm	Price on enquiry
5500 0060	50 mm	
5500 0080	60-75 mm	
5500 0100	90 mm	
5500 0160	120-150 mm	
5500 0200	200 mm	
5500 0240	240 mm	
5500 0300	300 mm	

PU protection hoses

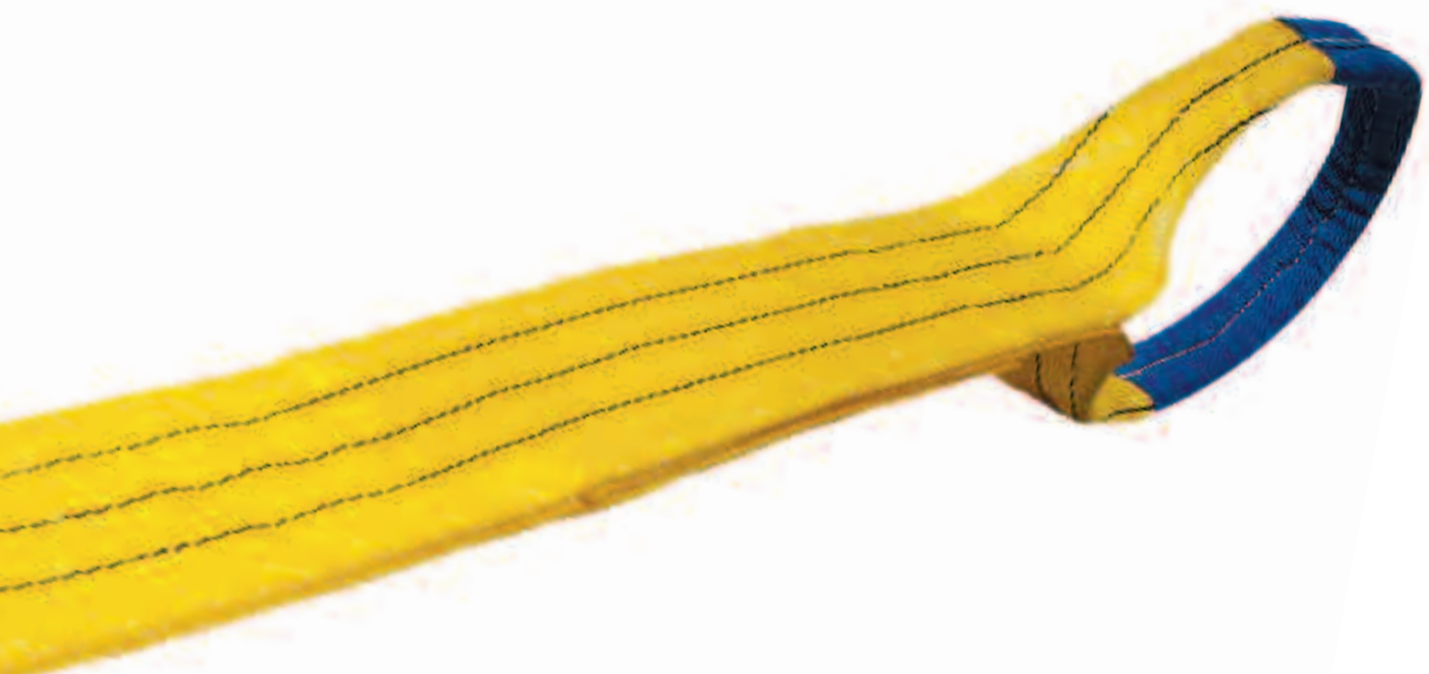


Item no.	for web slings up to band width	Price each metre
5500 2040	30 mm	Price on enquiry
5500 2065	50-60 mm	
5500 2080	65-75 mm	
5500 2100	90 mm	
5500 2120	120 mm	
5500 2160	140-150 mm	
5500 2180	160 mm	
5500 2250	240 mm	



Protection against sharp edges
Additional info on abrasion protection and sharp edge protection, i.e. protection hoses, hard coatings, impregnation and special fabric constructions can be found on pages 46-55.





Dolezych eye slings

are lightweight and handy. The eyes are reinforced by coloured abrasion-resistant woven material. The eye reinforcement does not swell up when wet: that is why we do not use leather.

For 1-4 layer web slings we differentiate between two differently sewn types of eyes that have shown their efficiency in practice:

For multi layer web slings the flat eye is standard. They are available in standard reinforcement and full reinforcement.

Single layer stirrup slings are produced with a 90° turned "inversed eye" (type C + D Page 28). They are available in standard reinforcement and full reinforcement.



Table eye widths and eye types

In the table to the right, you will find an overview of all available and technically possible eye widths and eye types.

Depending on the width of the eye sling firstly, you have the choice between eye widths which have either full, half, or one-third width of the web sling.

You also have the choice of eye type:

- standard reinforcement (type A)
- full reinforcement (type B)
- inversed eye (type C) normal reinforcement
- inversed eye, full reinforcement (type D)

Upon request, we also produce web sling eyes in special dimensions and with special reinforcements adjusted to your special crane hook.

Overview of eye widths and eye types

band width mm	number of layers	Eye width in relation to band width		flat eyes						inversed eyes					
				standard reinforcement			full reinforcement			standard reinforcement			full reinforcement		
				A		B			C			D			
		1/1	1/2	1/3	1/1	1/2	1/3	1/1	1/2	1/3	1/1	1/2	1/3		
30	1	o	-	-	o	-	-	x	-	-	x	-	-		
	2	x	-	-	x	-	-	o	-	-	o	-	-		
	4	x	-	-	x	-	-	-	-	-	-	-	-		
50/ 60/ 75	1	o	o	-	o	o	-	o	x	-	o	x	-		
	2	o	x	-	o	x	-	o	o	-	o	o	-		
	4	o	x	-	o	x	-	-	-	-	-	-	-		
90 to 300	1	o	o	o	o	o	o	o	o	x	o	o	x		
	2	o	o	x	o	o	x	o	o	o	o	o	o		
	4	o	x	-	o	x	-	-	-	-	-	-	-		

x = standard o = possible - = not possible

Examples for eye types can be found on page 17!

Eye slings double layer Eye type B

DoColor

- **Eye sling, double layer**
- **tapered, fully reinforced eye**



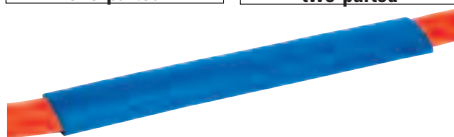
DoColor eye sling, double layer flat eye with full reinforcement, type B

Item no.	working load limit in kg single	double	band width x thickness mm	length of eye mm	width of eye mm	min. length mm	price 1 metre	price additional metre
0561 9604	1000	2000	30 x 7	200	15	850	Price on enquiry	Price on enquiry
0561 9654	1000	2000	50 x 6	200	25	850		
0561 9624	1500	3000	65 x 6	250	35	1150		
0561 9754	2000	4000	60 x 7	300	30	1300		
0561 9764	2000	4000	75 x 6	300	25	1300		
0561 9784	3000	6000	90 x 7	350	30	1500		
0561 9794	3000	6000	140 x 6	350	50	1600		
0561 9854	4000	8000	120 x 7	425	40	1600		
0562 0004	5000	10000	150 x 7	500	50	1900		
0562 0104	6000	12000	180 x 7	550	60	2100		
0562 0204	8000	16000	240 x 7	600	80	2300		
0562 0304	10000	20000	300 x 10	750	100	2500		

Eye sling, double layers flat eye with full reinforcement, type B

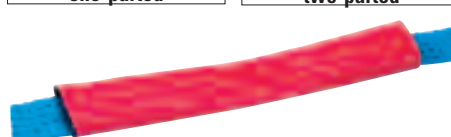


PVC protection hoses



Item no.	for web slings up to band width	Price each metre
5500 0040	30 mm	Price on enquiry
5500 0060	50 mm	
5500 0080	60-75 mm	
5500 0100	90 mm	
5500 0160	120-150 mm	
5500 0200	200 mm	
5500 0240	240 mm	
5500 0300	300 mm	

PU protection hoses

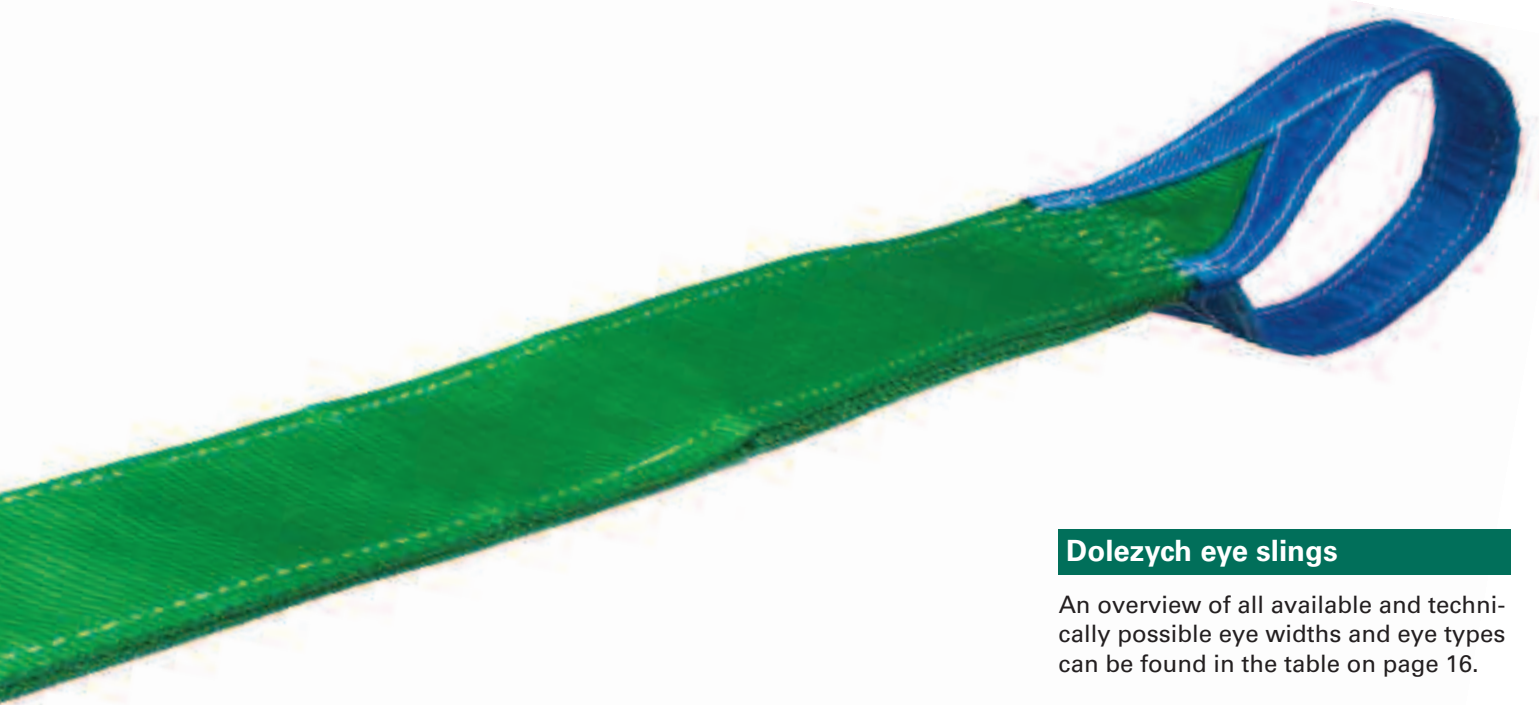


Item no.	for web slings up to band width	Price each metre
5500 2040	30 mm	Price on enquiry
5500 2065	50-60 mm	
5500 2080	65-75 mm	
5500 2100	90 mm	
5500 2120	120 mm	
5500 2160	140-150 mm	
5500 2180	160 mm	
5500 2250	240 mm	

Upon request, all Dolezych products are made available with RFID transponder technology. This allows for an unambiguous identification of products. Please contact us for details!



Aperture angels of eyes should not exceed 20°. This is ensured when the length of the eye equals or exceeds four times the area of support of the crane hook!



Dolezych eye slings

An overview of all available and technically possible eye widths and eye types can be found in the table on page 16.

Upon request, we also produce web sling eyes in special dimensions and with special reinforcements adjusted to your crane hook.



Eye slings
single layer
Eye type C
Eye type D

DoColor

- **Web sling single layer**
- **tapered inverted eye with standard reinforcement**



DoColor eye sling, single layer inversed eye with standard reinforcement, type C

Item no.	working load limit in kg		band width x thickness mm	length of eye mm	width of eye mm	min. length mm	price 1 metre	price additional metre
	single layer	double layer						
0531 9002	500	1000	30 x 3.5	200	15	850	Price on enquiry	Price on enquiry
0531 9082	500	1000	50 x 3.0	200	25	850		
0531 9202	1000	2000	60 x 3.5	300	30	1300		
0531 9222	1000	2000	75 x 3.0	300	25	1300		
0531 9282	1500	3000	90 x 3.5	350	30	1500		
0531 9292	1500	3000	140 x 3.0	425	50	1750		
0531 9402	2000	4000	120 x 3.5	425	40	1750		
0531 9512	3000	6000	180 x 3.5	550	60	2100		

Type C: eye sling, inversed eye with standard reinforcement



Type D: eye sling inversed eye with full reinforcement *



PVC protection hoses



Item no.	for web slings up to band width	Price each metre
5500 0040	30 mm	Price on enquiry
5500 0060	50 mm	
5500 0080	60-75 mm	
5500 0100	90 mm	
5500 0160	120-150 mm	
5500 0200	200 mm	
5500 0240	240 mm	
5500 0300	300 mm	

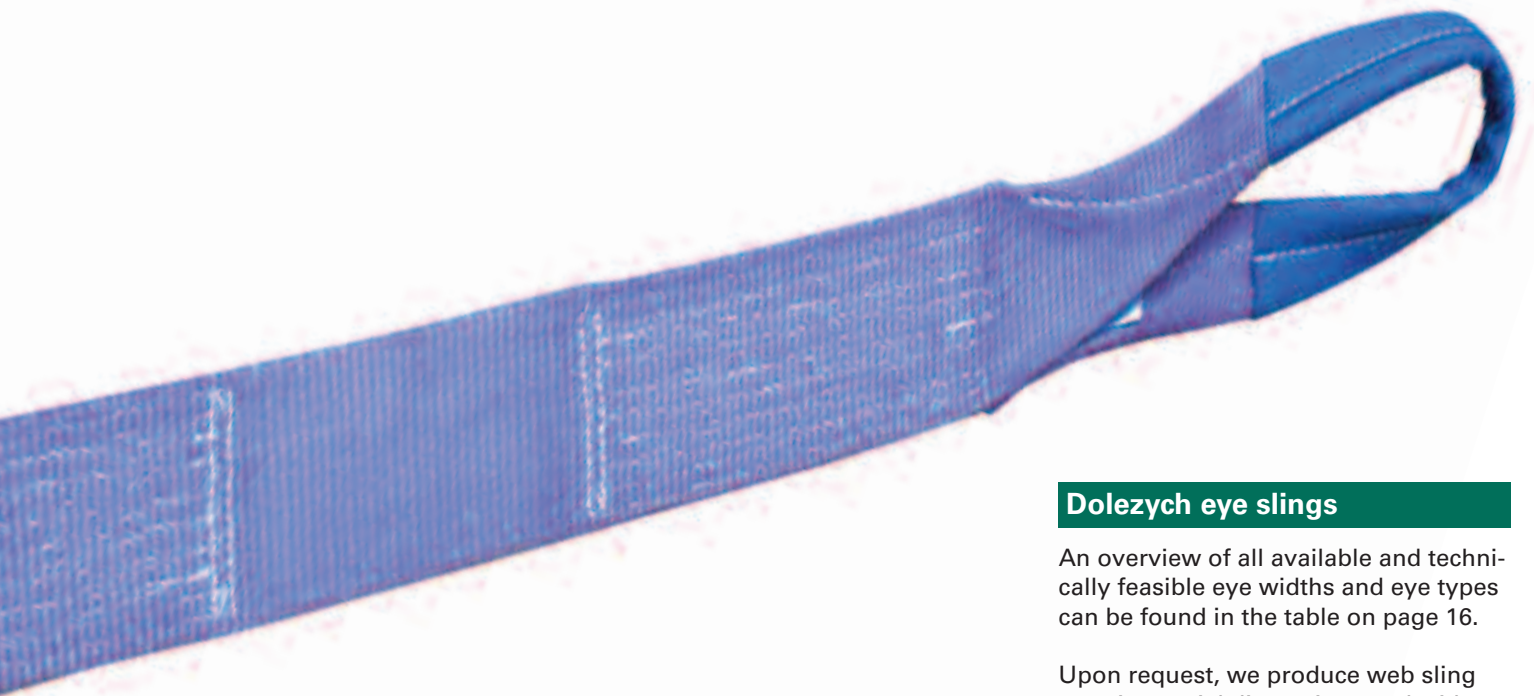
PU protection hoses



Item no.	for web slings up to band width	Price each metre
5500 2040	30 mm	Price on enquiry
5500 2065	50-60 mm	
5500 2080	65-75 mm	
5500 2100	90 mm	
5500 2120	120 mm	
5500 2160	140-150 mm	
5500 2180	160 mm	
5500 2250	240 mm	

***Price upon request!**

Protection against sharp edges
Everything useful for abrasion protection and sharp edge protection i.e. protection hoses, hard coatings, impregnation and special fabric constructions can be found on pages 46-55.



Dolezych eye slings

An overview of all available and technically feasible eye widths and eye types can be found in the table on page 16.

Upon request, we produce web sling eyes in special dimensions and with special reinforcement adjusted to your crane hook.



Eye slings
with extended
workload capacity
double layer
Eye type B

DoAntiCut

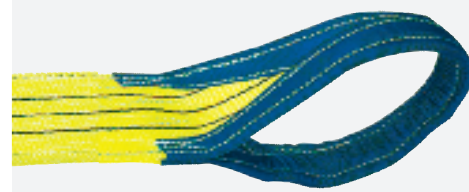
- woven edge protecting against lateral damage
- extremely abrasion resistant eyes
- luminous bright colours
- double layer
- fully reinforced eye



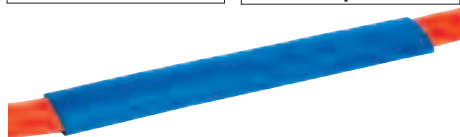
DoAntiCut eye slings, double layer, flat eye, full reinforcement,

Item no.	working load limit in kg		band width x thickness mm	length of eye mm	width of eye mm	min. length mm	price 1 metre	price additional metre
	single layer	double layer						
0564 9752	2000	4000	60 x 7	300	30	1300	Price on enquiry	Price on enquiry
0564 9782	3000	6000	90 x 7	350	30	1500		
0564 9852	4000	8000	120 x 7	425	40	1600		
0564 0002	5000	10000	150 x 7	500	50	1900		

type B double layer, flat eye, full reinforcement



PVC protection hoses



Item no.	for web slings up to band width	Price each metre
5500 0040	30 mm	Price on enquiry
5500 0060	50 mm	
5500 0080	60-75 mm	
5500 0100	90 mm	
5500 0160	120-150 mm	
5500 0200	200 mm	
5500 0240	240 mm	
5500 0300	300 mm	

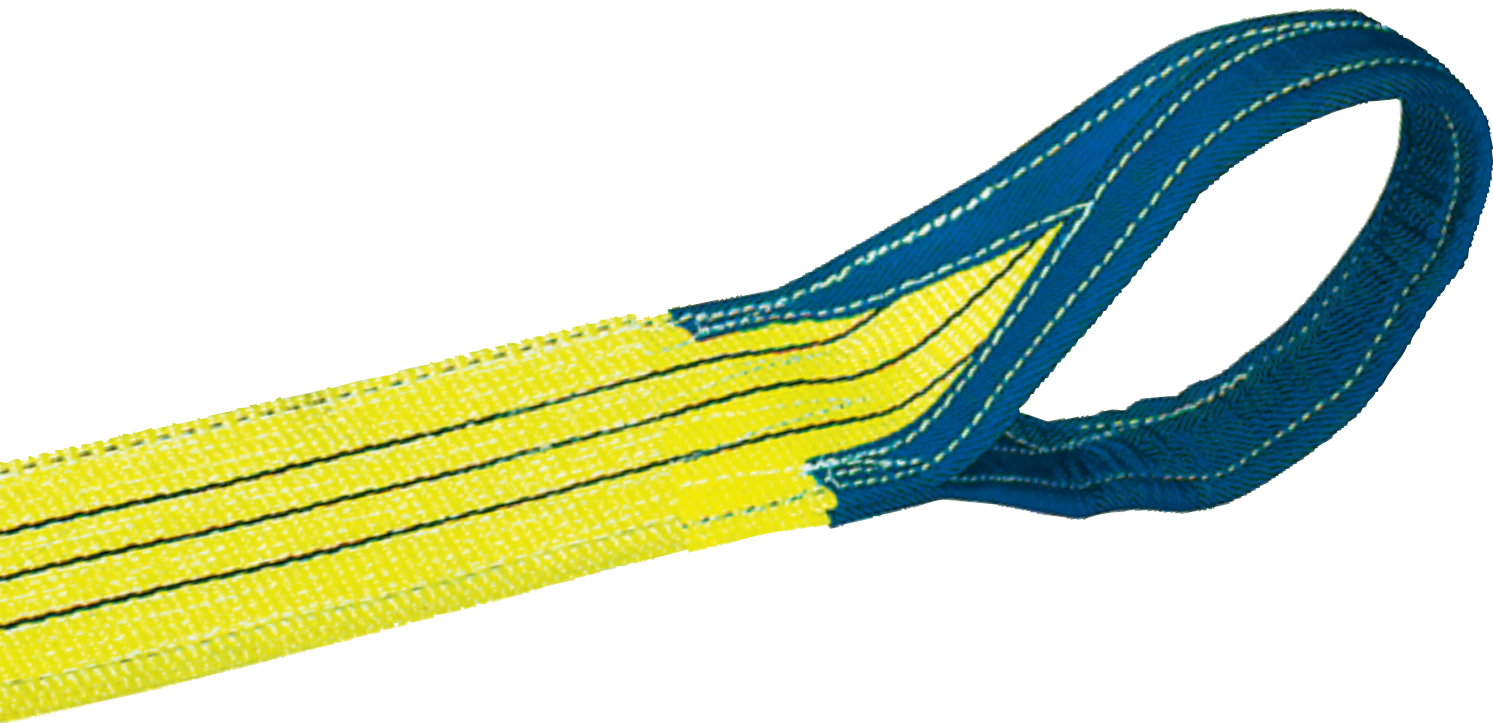
PU protection hoses



Item no.	for web slings up to band width	Price each metre
5500 2040	30 mm	Price on enquiry
5500 2065	50-60 mm	
5500 2080	65-75 mm	
5500 2100	90 mm	
5500 2120	120 mm	
5500 2160	140-150 mm	
5500 2180	160 mm	
5500 2250	240 mm	



Aperture angels of eyes should not exceed 20°. This is guaranteed if the length of the eye equals or exceeds four times the area of support of the crane hook!

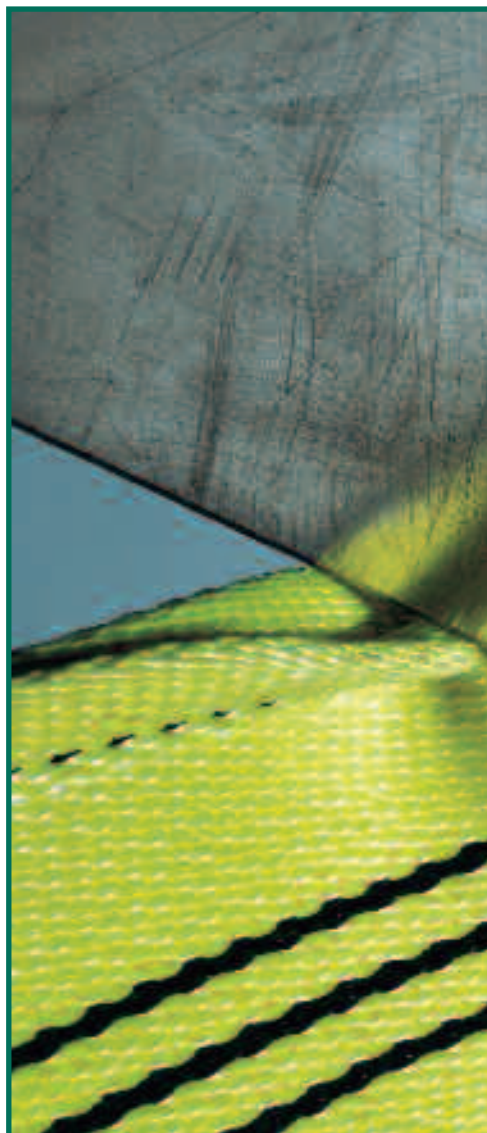



DoAntiCut eye slings

Advantages for you:

- DoAntiCut- woven edge protection for better protection against lateral damage
- V-shaped woven edge absorbs lateral stress
- Woven edge works as a buffer between edge and carrying belt
- resists all kinds of stress like dragging through under a load, dragging across floors, or fastening to crane hooks which are not totally burr-free. As a default, the eyes are reinforced up to the overlapping seam with extra abrasion resistant abrasion protection .
- For easier visual recognition and differentiation e.g. to determine working load limit in low light conditions DoAntiCut eye slings are produced in luminous "ocolours"

DoAntiCut prevents damages





Protection against sharp edges
Everything to know about abrasion protection and sharp edge protection i.e. protection hoses, hard coatings, impregnation and special fabric constructions can be found on pages 46-55.

Eye slings
double layer
Eye type B

DoPremium

Innovative: DoPremium!

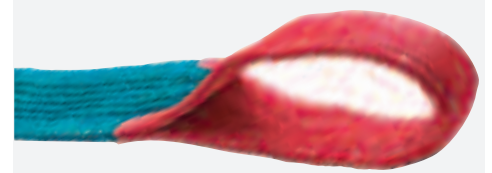
- Longer durability through higher safety factor
- Higher temperature resistance up to 150°C
- Higher abrasion resistance through optimum web construction
- Higher compression resistance in log-term use



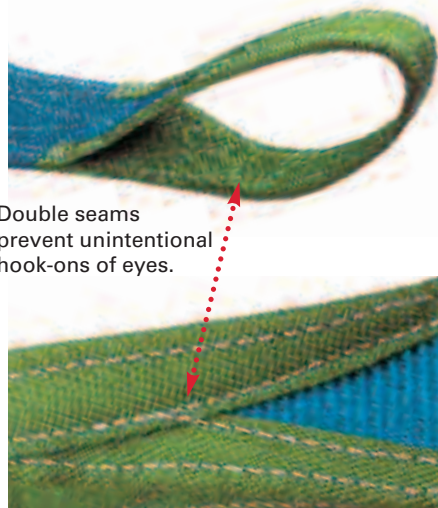
DoPremium eye slings, double layer, flat eye, full reinforcement, type B

Item no.	working load limit in kg single	working load limit in kg double	band width x thickness mm	length of eye mm	width of eye mm	min. length mm	price 1 metre	price addi- tional metre
0567 9602	1000	2000	50 x 6	200	25	850	Price on enquiry	Price on enquiry
0567 9752	2000	4000	75 x 8	300	25	1300		
0567 9782	3000	6000	100 x 8	350	35	1500	Price on enquiry	Price on enquiry
0567 9852	4000	8000	125 x 8	425	45	1600		
0567 0002	5000	10000	150 x 10	500	50	1900		

Type B flat eye, full reinforcement



Band colour is turquoise, eye reinforcement in EN-colour code.



Double seams prevent unintentional hook-ons of eyes.

DoPremium eye slings are first-class products for your safety.

Its fully reinforced eye offers full protection for use with crane hooks; that is to say in the area causing the most wear. Optimized web construction of belt and edge allow for longer endurance against stress caused by abrasion, compression, and by edge tear. Band colour is turquoise, eye reinforcement in EN-colour code. In contrast to the standardized safety factor of 7, DoPremium special constructions meet a safety factor of approx. 10.



DoQM-RFID Transponder

DoRFID

RFID transponders are available in various designs.

For information see pages 10 and 11.

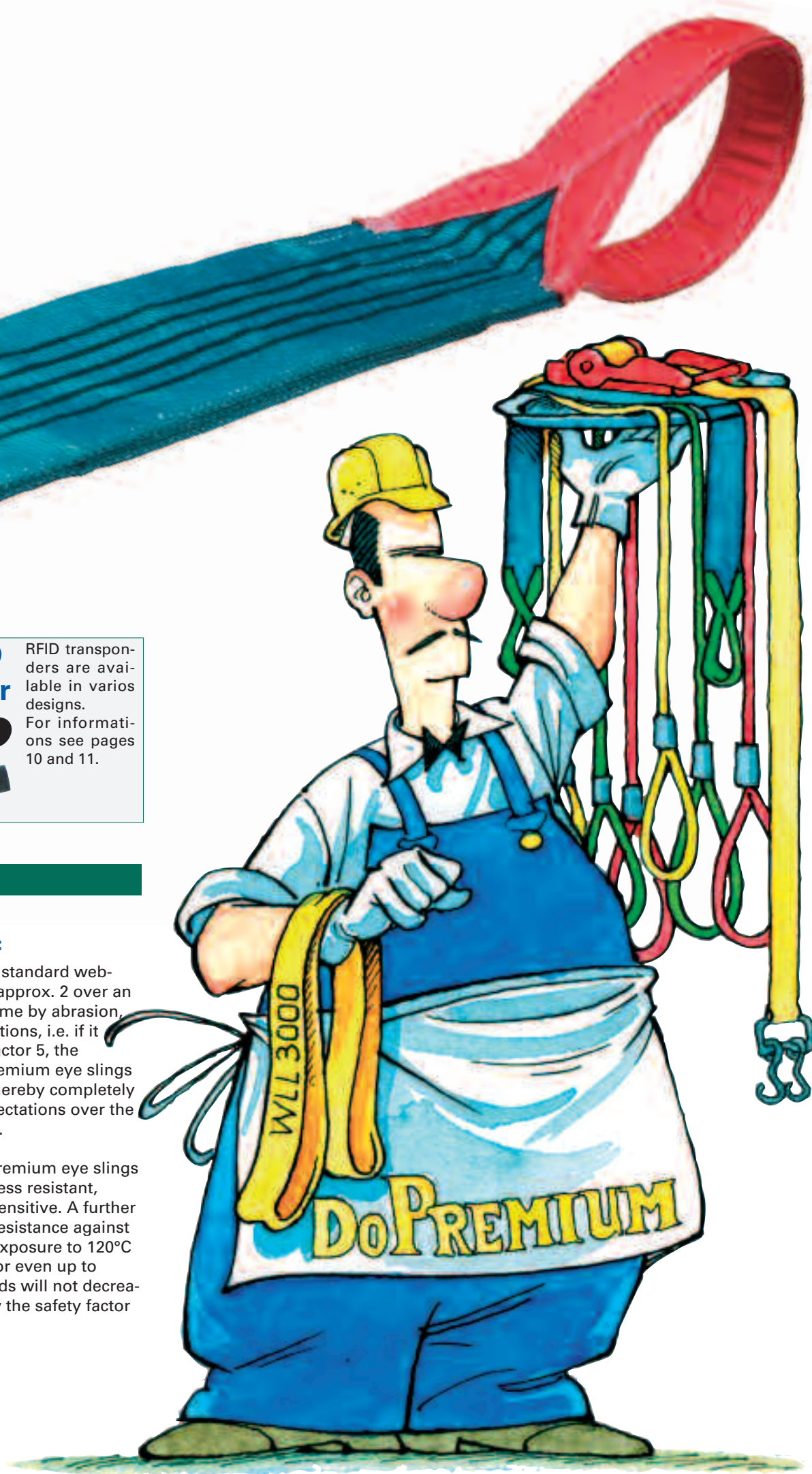


DoPremium

Your advantages for practical use:

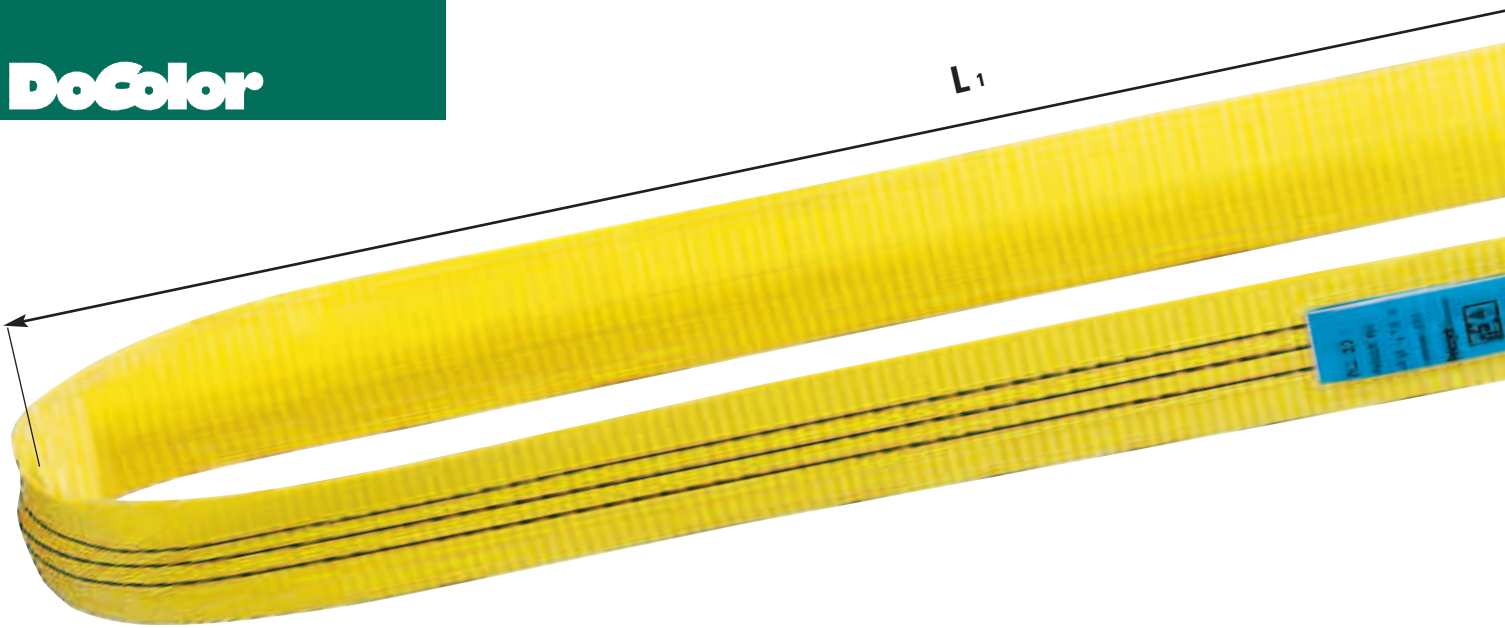
If the safety factor of standard web-slings is reduced by approx. 2 over an extended period of time by abrasion, dirt or weather conditions, i.e. if it falls to approx. the factor 5, the safety factor of DoPremium eye slings remains at 7-8 and thereby completely fulfil your safety expectations over the whole service period.

Because of this, DoPremium eye slings all in all are more stress resistant, sturdy, and more insensitive. A further advantage is better resistance against high temperatures. Exposure to 120°C over longer periods or even up to 150°C for short periods will not decrease the stability below the safety factor of 8.



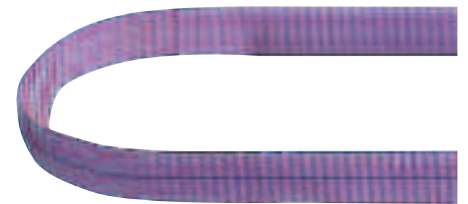
Endless web slings single layer and double layer

DoColor



DoColor endless web slings single layer

Item no.	working load limit kg		band width x thickness mm	min. length L mm	length L=1m Price of band sling	price additional metre
	single	double				
0542 1902	500	1000	25 x 4.0	350	Price on enquiry	Price on enquiry
0542 2102	1000	2000	30 x 3.5	400		
0542 2152	1500	3000	65 x 3.0	700		
0542 2216	2000	4000	60 x 3.5	700		
0542 2262	2000	4000	75 x 3.0	750		
0542 2282	3000	6000	90 x 3.5	900		
0542 2272	3000	6000	140 x 3.0	1000		



Length = L = useful range
(LX2 = length of circumference)




DoColor endless web slings double layer

Item no.	working load limit kg		band width x thickness mm	min. length L mm	length L=1m Price of band sling	price additional metre
	single	double				
0582 2902	1000	2000	25 x 8	400	Price on enquiry	Price on enquiry
0582 3002	1500	3000	35 x 6	500		
0582 3052	2000	4000	30 x 7	500		
0582 3092	3000	6000	65 x 6	800		
0582 3102	4000	8000	60 x 7	800		
0582 3152	4000	8000	75 x 6	900		
0582 3312	5000	10000	100 x 6	1000		
0582 3352	6000	12000	90 x 7	900		
0582 3382	6000	12000	140 x 6	1000		



Length = L = useful range
(LX2 = length of circumference)

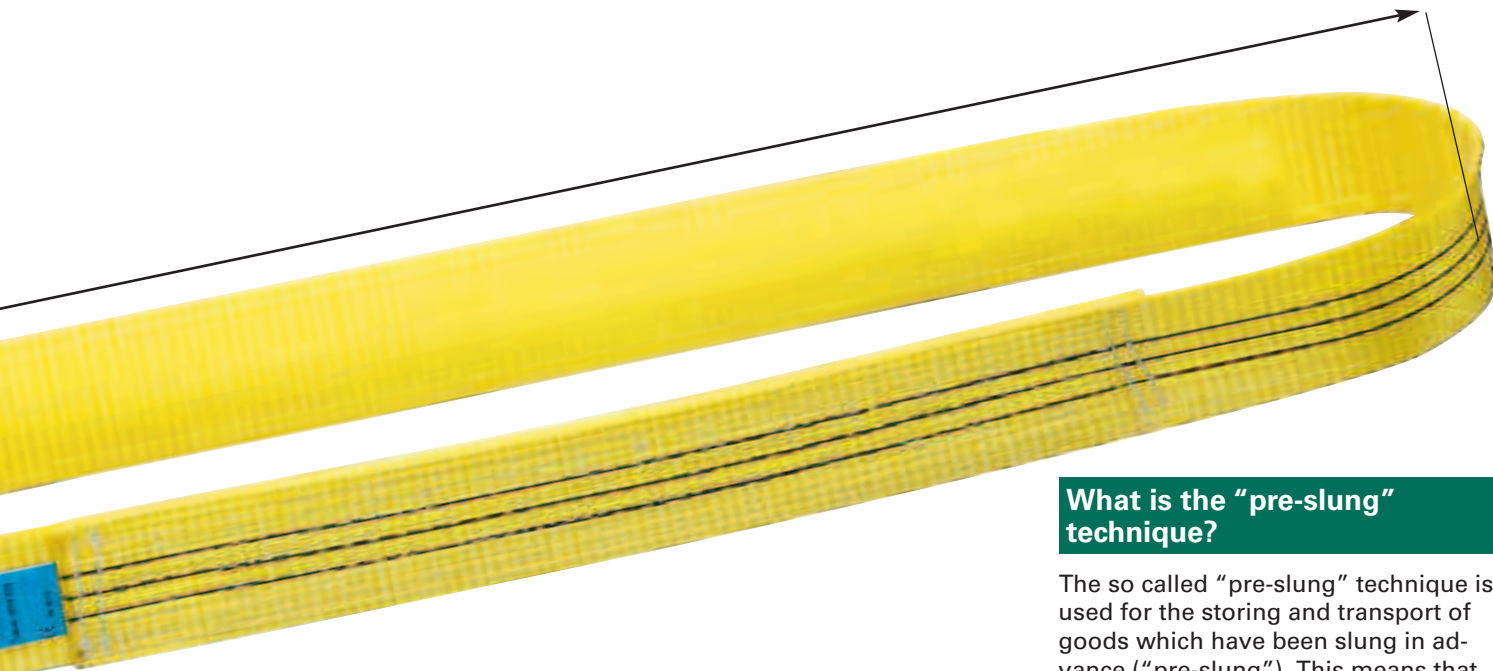
Lifting types and working load limit factors

Vertical	choker	basket
		
M=1	M=0.8	M=2

M = working load limit factor for balanced loads. Maximum inclination angle for web slings or parts of web slings is 6°.



Wire rope slings are also useful for the "pre-slung" technique and can be found on page 234 ff.



What is the “pre-slung” technique?

The so called “pre-slung” technique is used for the storing and transport of goods which have been slung in advance (“pre-slung”). This means that the endless web slings remain slung permanently around the loading unit during the whole transport.

Exclusively for this technique, endless web slings for repeated use can be loaded with the maximum working load limit denoted on the label multiplied with 1,4! These web slings have to be disposed of at the end of transportation. Further use is allowed only, if no defects possibly concerning the safety have occurred (see BGR 500, 5.8).

According to the current DIN EN 1492-1 the factor of working load limit is 1:7, so the relevant coefficient is 1,4 – see BGI 556 (edition 2004).

Explanation: The old factor 1,6 as the maximum coefficient is no longer valid, because it used to be relevant for web slings with a factor of working load limit of 1:8.

There are web slings for repeated use (as shown on page 38 and 39) according to DIN EN 1492-1 and one-use web slings according to DIN 60005. The pre-slung technique according to BGR 500 makes sense only with this distinction. Practically speaking: Pre-slung techniques can be applied only to web slings for repeated use according to DIN EN 1492-1.

Pre-slung techniques are forbidden for one-use or disposable web slings, like ASG web slings which meet DIN 60005 only.

By the way: Considering pre-slung techniques, one usually thinks of textile web slings. Pre-slung techniques can also be applied to textile eye slings or wire rope slings. Chain slings are not appropriate for pre-slung techniques.

DoColor-endless web slings



Dolezych endless web slings (1- or 2-layer) according to DIN EN 1492-1 are perfectly suited for use with traverses in lifting or choking use. Compared to eye slings, endless web slings are much simpler to sew and thus are highly economical lifting devices.

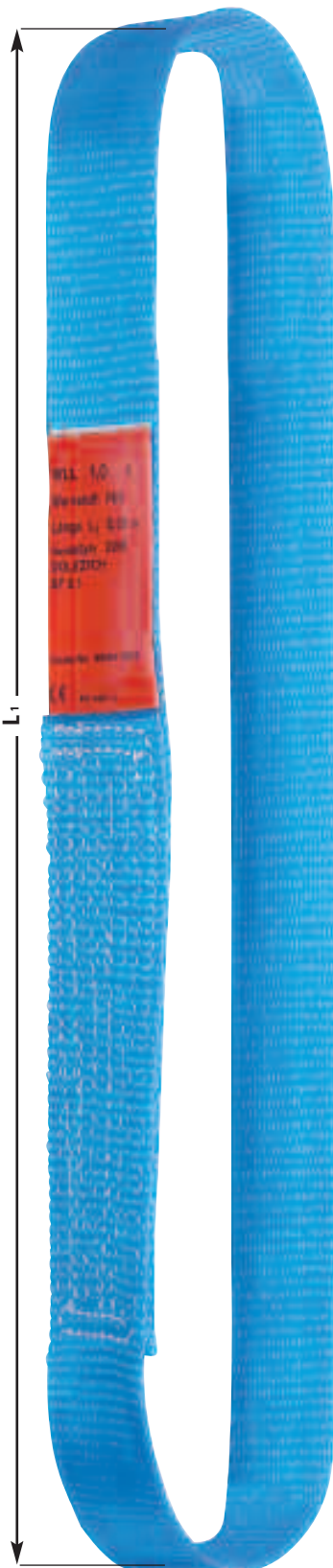
Advantages of endless web slings

- easy handling in choking use
- loads are always carried by two strands
- higher load capacity compared to web slings or stirrup slings of equal width
- highly cost-efficient



One-way use endless web slings DIN 60005 disposable slings

DoColor



One-way use web slings according to DIN 60005

One-way use web slings are produced according to DIN 60005 and have a safety factor of 1:5. That means that a sling with a working load limit of 1 t has to reach a breaking load of 5 t. One-use web slings are used for the transport of goods from manufacturer to the customer. They have to be disposed of at the end of the chain of transportation.

Historic situation:

Web slings, especially endless web slings which were not produced in accordance to DIN EN 1492-1 used to be called disposable slings. These slings differing from DIN EN 1492-1 neither did have a colour code nor a standardized, and therefore, unambiguous labelling. They do not meet the minimum thickness prescribed by the industry standard.

They were intended for one way-use and supposed to be destroyed afterwards. The safety factor for one-use slings should be 1:5 which is derived from the regulations of BGR 500. In real-life use, these one-use / disposable slings were also used for pre-slung procedures although they were never intended for this at any rate (see reference to pre-slung procedures on pages 38 and 39).

In some opean countries such disposable slings were produced with safety breaking factor 1:4 and even erroneously used for pre-slung procedures in some German enterprises.

DIN 60005:

Because of this DIN 60005 was developed as the new basis for one-way slings.

What does DIN 60005:2005 specify?

- Safety factor 1:5 is valid, that means that the minimum breaking force must be the working load limit multiplied by 5
- Minimum thickness of the sling material is 1 mm
- Maximum band width is 100 mm
- For unambiguous identification of one-way use, all web slings are equipped with an orange label
- At the end of the chain of transportation, this means that the one-use web sling must be destroyed

By coming into effect DIN 60005 and a resulting DIN EN in Germany (correspondingly in ope) there is no longer any danger of confusion concerning the carrying load capacities.

One-use, or disposable web slings can have very different designs in practical applications, such as endless web slings or eye slings in different colours.

Info on one-use web slings, choice of dimensions / carrying load capacities; price and other carrying load capacities upon request.

band width mm	working load limit kg (eye sling)		working load limit kg (band sling)	
	single	double	single	double
25	350	700	700	1400
35	500	1000	1000	2000
50	700	1400	1400	2800
65	900	1800	1800	3600
80	1100	2200	2200	4400
100	1400	2800	2800	5600

One-way use endless web slings, so-called ASG-web slings

Item - no.	band - width mm	working load limit in kg Safety factor = 5		length L1 = 0,5 m	price additional metre
		single	double		
0543 0482	50	750	1500	Price on enquiry	Price on enquiry
0543 0492	50	1000	2000		
0543 0502	50	1400	2800		

Dolezych one-way use endless web slings

ASG endless web slings are mainly used as disposable slings for modular construction. They are slung only once and then they have to be cut off. So the ASG band sling is the typical one-use web sling according to DIN 60005.

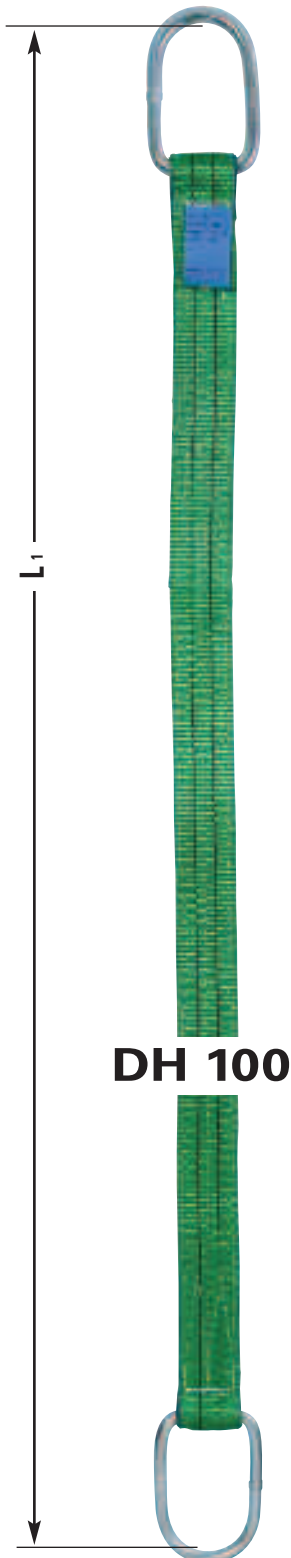
You can find other one-use endless web slings, e.g. eye slings in different bandwidths, in the table on page 40.

We provide a stock of **ASG** endless web slings in standard dimensions of L1 = 0.40 m, 0.41 m and 0.50m, equipped with an orange label.



Stirrup slings single layer + double layer DH 100

DoColor



DoColor stirrup slings DH 100 single layer

Item no.	working load single	limit kg double	band width X thickness mm	min. length L1 mm	price 1 metre	price additional metre
0511 7002	500	1000	30 x 3.5	650	Price on enquiry	Price on enquiry
0511 7102	500	1000	50 x 3.0	650		
0511 7202	1000	2000	60 x 3.5	600		
0511 7252	1000	2000	75 x 3.0	900		
0511 7302	1500	3000	90 x 3.5	1100		
0511 7352	1500	3000	140 x 3.0	1400		
0511 7402	2000	4000	120 x 3.5	1400		
0511 7452	2000	4000	150 x 3.0	1500		
0511 7602	3000	6000	180 x 3.5	1650		

DoColor stirrup slings DH 100 double layer

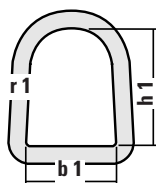
Item no.	working load single	limit kg double	band width X thickness mm	min. length L1 mm	price 1 metre	price additional metre
0511 8002	1000	2000	30 x 7.0	650	Price on enquiry	Price on enquiry
0511 8102	1000	2000	50 x 6.0	650		
0511 8202	2000	4000	60 x 7.0	900		
0511 8252	2000	4000	75 x 6.0	900		
0511 8302	3000	6000	90 x 7.0	1100		
0511 8352	3000	6000	140 x 6.0	1400		
0511 8402	4000	8000	120 x 7.0	1400		
0511 8502	5000	10000	150 x 7.0	1500		
0511 8602	6000	12000	180 x 7.0	1650		
0511 8802	8000	16000	240 x 7.0	1650		
0511 8902	10000	20000	300 x 10.0	2000		

Your advantages:

- Can be used instead of eye slings if the contact surface of the eye is wider than the crane hook - steel stirrups need less space in the crane hook.
- Especially useful for traverses as steel stirrups are used for the traverse hook which is the main area of wear.
- Extremely gentle on laced loads as the band suspends over the complete width
- Available upon request with stainless steel stirrups for etching or pickling baths (material at least 1.4301).
- Special stirrups available for large crane hooks

Stirrup dimensions DH 100

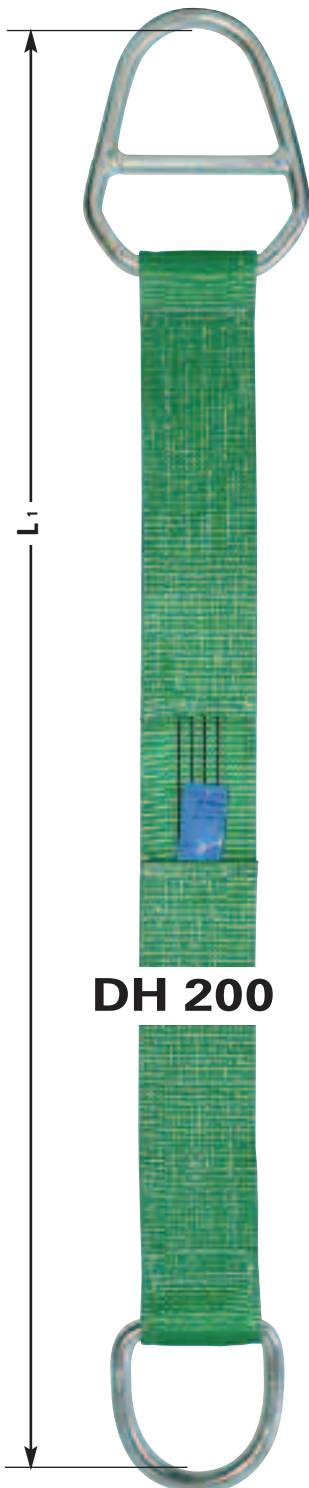
working load-limit kg	stirrup diameter r 1 mm	height h1 mm	width b1 mm
1000	13	80	60
2000	16	90	80
3000	20	110	100
4000	22	130	130
5000	26	160	160
6000	30	210	220
8000	32	210	270
10000	36	278	300





Stirrup slings single layer + double layer DH 200

DoColor



DoColor stirrup slings DH 200 single layer

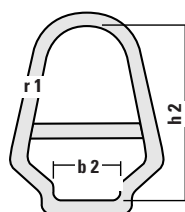
Item no.	working load single	limit kg double	band width X thickness mm	min. length L1 mm	price 1 metre	price additional metre
0521 7002	500	1000	30 x 3.5	650	Price on enquiry	Price on enquiry
0521 7102	500	1000	50 x 3.0	650		
0521 7202	1000	2000	60 x 3.5	600		
0521 7252	1000	2000	75 x 3.0	900		
0521 7302	1500	3000	90 x 3.5	1100		
0521 7352	1500	3000	140 x 3.0	1400		
0521 7402	2000	4000	120 x 3.5	1400		
0521 7452	2000	4000	150 x 3.0	1500		
0521 7602	3000	6000	180 x 3.5	1650		

DoColor stirrup slings DH 200 double layer

Item no.	working load single	limit kg double	band width X thickness mm	min. length L1 mm	price 1 metre	price additional metre
0521 8002	1000	2000	30 x 7.0	650	Price on enquiry	Price on enquiry
0521 8102	1000	2000	50 x 6.0	650		
0521 8202	2000	4000	60 x 7.0	900		
0521 8252	2000	4000	75 x 6.0	900		
0521 8302	3000	6000	90 x 7.0	1100		
0521 8352	3000	6000	140 x 6.0	1400		
0521 8402	4000	8000	120 x 7.0	1400		
0521 8502	5000	10000	150 x 7.0	1500		
0521 8602	6000	12000	180 x 7.0	1650		
0521 8802	8000	16000	240 x 7.0	1650		
0521 8902	10000	20000	300 x 10.0	2000		

Exceptionally suitable for "choker" type lifting!

Stirrup dimensions DH 200



working load - limit kg	stirrup diameter r 1 mm	height h1 mm	width b1 mm
1000	13	145	100
2000	16	165	120
3000	20	195	150
4000	22	230	185
5000	26	295	225
6000	30	325	295
8000	32	330	345
10000	36	428	430



Steel stirrups are nearly indestructible.
For flexible usage choose multi purpose combination sling DH 200.

Eye slings + stirrup slings 4 layer, for use with heavy loads

DoColor



Just two web slings (300 mm webbing width) used for "basket" type lifting can carry a load of 80 tons!

Your advantages:

- For use with heavy loads up to 40 t (double the working load limit compared to other double layer eye slings or stirrup slings of the same width)
- For use in confined spaces as the bandwidth is only half the size of double layer stirrup slings of the same working load limit



DoColor eye slings 4 layer

	Item no.	working load limit single	working load limit double	band width x thickness	eye width mm	length of eye mm	min. length mm	price 1 metre	price additional metre
	0559 0302	2000	4000	30 x 14	30	200	1000		
	0559 0652	3000	6000	65 x 12	35	300	1500		
	0559 0602	4000	8000	60 x 14	30	300	1500	Price on enquiry	Price on enquiry
	0559 0852	5000	10000	100 x 12	45	350	2000		
	0559 0902	6000	12000	90 x 14	45	350	2000		
	0559 1202	8000	16000	120 x 14	60	425	2000	Price on enquiry	Price on enquiry
	0559 1502	10000	20000	150 x 14	75	500	2500		
	0559 1802	12000	24000	180 x 14	90	550	2500	Price on enquiry	Price on enquiry
	0559 2402	16000	32000	240 x 14	120	600	3000		
	0559 3002	20000	40000	300 x 20	150	625	3000		

DoColor stirrup slings 4 layer (double layer stirrup slings p.38/39)

	DH 100 Item no.	DH 200 Item no.	working load limit single	working load limit double	band width x thickness	min. length mm	DH 100 price 1 metre	DH 200 price 1 metre	price additional metre
	0513 0302	0523 0302	2000	4000	50 x 12	650			
	0513 0652	0523 0652	3000	6000	65 x 12	900			
	0513 0602	0523 0602	4000	8000	60 x 14	900	Price on enquiry	Price on enquiry	Price on enquiry
	0513 0852	0523 0852	5000	10000	100 x 12	1100			
	0513 0902	0523 0902	6000	12000	90 x 14	1100			
	0513 1202	0523 1202	8000	16000	120 x 14	1400	Price on enquiry	Price on enquiry	Price on enquiry
	0513 1502	0523 1502	10000	20000	150 x 14	1500			
	0513 1802	0523 1802	12000	24000	180 x 14	1500			
	0513 2402	0523 2402	16000	32000	240 x 14	1650			
	0513 3002	0523 3002	20000	40000	300 x 20	2000			



four-layer



Upon request, all Dolezych products are available with RFID transponder technology. This allows for an unambiguous identification of products. Feel free to contact us!

DoFix eye reinforcement

DoMarkPlus

DoPlus eye slings double layer

DoFix DoMarkPlus

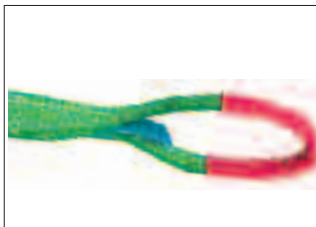
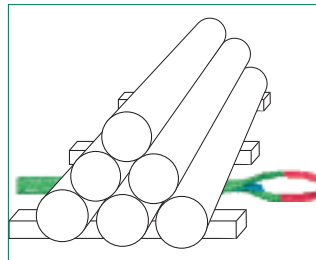
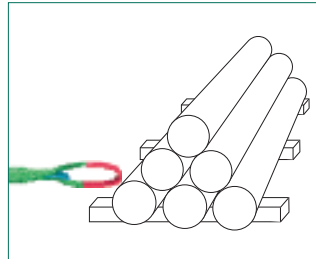
DoFix – the stiff eye

Lifting stirrup slings easily fold due to their soft woven structure. For fastening on load hooks this property can be very irritating.

Dolezych also produces web slings with a special eye-stiffening sewing technique. This allows for the web slings to be pushed through under loads like a lifting rope.

In the picture below you see a comparison of different eye types.

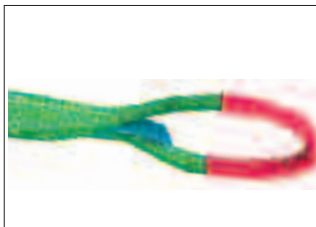
DoFix is exclusively available for a working load limit up to 2 t. Please request more info!



normally reinforced eye



fully reinforced eye



DoFix eye

DoMarkPlus – the non-tearing additional label for all web slings, round slings and lashing straps

Item no. 0599 0055
Price each piece on request

Your advantage:

Non-tearing, no-loss label for all lashing straps, web slings and roundslings.

If the regular label gets lost or unreadable by rough use, the DoMarkPlus takes extra care of identification. The web sling, roundsling or the lashing strap does not have to be taken out of service.

DoMarkPlus is not sold separately.



DoPlus eye slings double layer

DoPlus eye slings with double sewn-on sling protection are almost indestructible. The additional sling protection offers extra abrasion protection for extremely rough use. If necessary, the abrasion protection can be replaced.

As a special order, DoPlus eye slings can be produced foldable. E.g. a band of 120mm width and 9 mm thickness can be changed to 60 mm of band width and 18 mm of thickness.

Item no.	working load limit single	working load limit double	band width X thickness in mm	length of eye in mm	min. length of band	price 1 metre	price additional metre
0565 0302	1000	2000	30 x 9	200	850	Price on enquiry	Price on enquiry
0565 0802	2000	4000	60 x 9	300	1150		
0565 0902	3000	6000	90 x 9	350	1350		
0565 1202	4000	8000	120 x 9	450	1800		
0565 1502	5000	10000	150 x 9	500	1900		
0565 1802	6000	12000	180 x 9	550	2100		
0565 2402	8000	16000	240 x 9	600	2300		
0565 3002	10000	20000	300 x 12	750	2500		



Reinforced textile eye slings DoPlus double layer are available "foldable" as a special component.

Textile mats with Roundslings Lifting sling mats

DoColor

Textile mats with roundslings

Processing:

Dolezych DoForce 1 roundslings are sewn up to mats with wide polyester belt stirrup slings. Processing is done according to DIN EN 1492-2.

The advantages:

- Higher WLL than web slings, respectively a wider contact area with corresponding WLL e.g. for sensitive loads (cylinders etc.).

Lifting sling mats

- Lifting sling mats, like textile mats with round slings, have an extremely wide contact area and therefore offer the best support for sensitive loads.

Standard width up to 600 mm contact width, specially built components with bigger width are available, as are steel stirrup end fixings.

Please contact us for more info!



DoColor textile mats

	working load limit kg		Item no.	standard mat width* metre mm	price 1 additional metre	price
	single	double				
	2000	4000	0514 2562	200	Price on enquiry	Price on enquiry
	3000	6000	0514 3062	200		
	4000	8000	0514 4562	300		
	5000	10000	0514 5562	300		
	6000	12000	0514 6062	400		
	8000	16000	0514 7562	400		
	10000	20000	0514 8062	500		
	12000	24000	0514 9162	600		
	15000	30000	0514 9362	600		
	20000	40000	0514 9562	750		
	25000	50000	0514 9862	750		
	30000	60000	0514 9872	900		
	40000	80000	0514 9992	900		

* Specially built components in all mat widths available, please do request info!

Lifting sling mats produced according to DIN EN 1492-1 reinforced eyes

Item no.	stirrup width mm	standard matt width* mm	price 1 metre	price additional metre
0540 2102	1000/2000	30	200	Price on enquiry
0540 2182	1700/3000	50	250	
0540 2216	2000/4000	60	300	
0540 2262	2500/5000	75	300	
0540 2282	3000/6000	90	400	
0540 2272	3500/7000	100	500	
0540 2301	4000/8000	120	600	

* Specially built components in all mat widths available, please enquire!



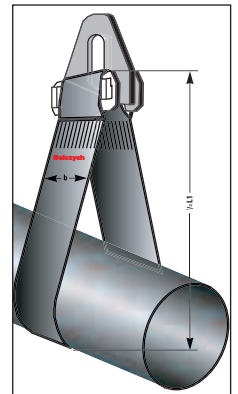
Pipeline-lifting sling mats

DoColor

Pipeline lifting sling mats are real power packs when it comes to the laying of pipes. They are made of polyester lifting mats with two sewn-in eye traverses each and a corresponding traverse with hooks. They are produced according to DIN EN 1492-1.

They are unsurpassable as a lifting device for laying pipelines whenever high carrying load capacities and great supporting areas are needed. Working load limit per mat is up to 48 t supporting a width of 900 mm.

For dimensions of traverses with hooks and eye traverses please contact us.



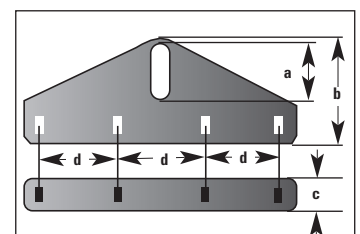
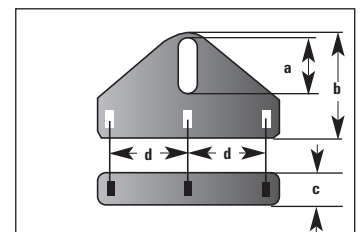
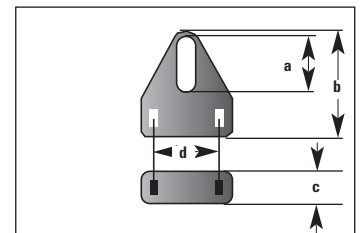
- ... Our "power pack"
- ... Up to 48 t working load limit
- ... Easy, time-saving handling

DoColor pipeline lifting sling mats

Item no.	working-load limit kg	band width mm	price for 2 metres	price additional metre
0511 9302	16.000	300	Price on enquiry	Price on enquiry
0511 9602	32.000	600		
0511 9902	48.000	900		



Please contact us for info on dimensions of traverses!



Protective hoses and abrasion protection for web slings and roundslings



What is abrasion protection?

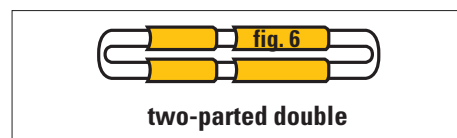
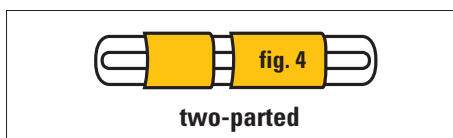
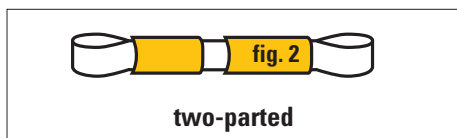
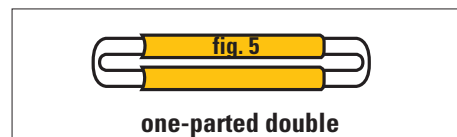
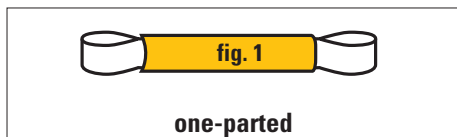
Abrasion protection is any additional equipment for textile products that increases abrasion resistance and extends the service period.

These variants have proven themselves in everyday practice and help to avoid early wear:

- PVC protective hose
- PU-TEX protective hose
- DoPlus
- DoStabil round sling coating (see p. 78)
- DoRobust coating
- Synthetic impregnation (please request)
- Polyurethane spray-on coating (please request)



Protective hoses PVC and PU-TEX for eye slings



Protective hoses PVC and PU-TEX for web slings / round slings

PVC protective hoses

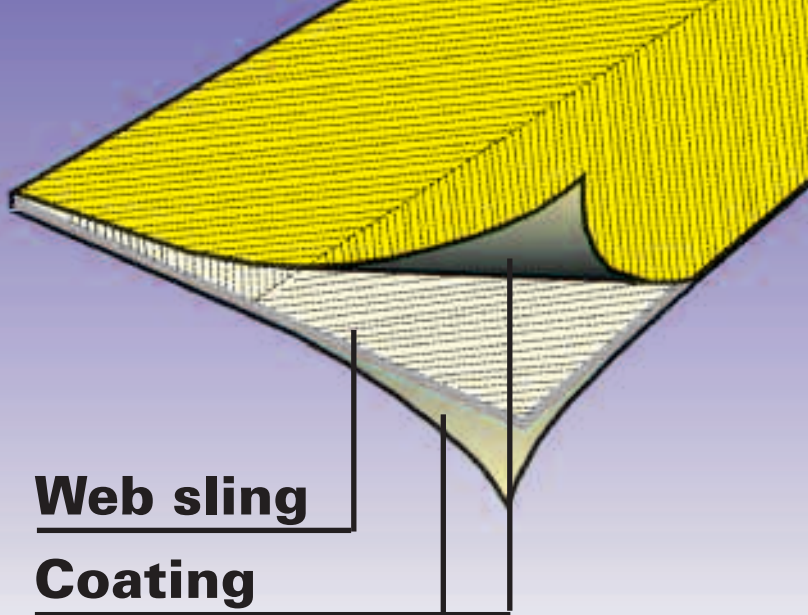


Item - no.	for web slings up to band width		for use with round slings	price / metres
	fig. 1 + 2	fig. 3 + 4		
5500 0040	30 mm	-	500 / 1000 kg	Price on enquiry
5500 0060	50 mm	-	1500 / 2000 kg	
5500 0070	-	500 / 1000 kg	-	
5500 0080	60-75 mm	1500 / 2000 kg	3000 kg	
5500 0100	90 mm	3000 kg	4000 kg	
5500 0120	-	4000 kg	5000 / 6000 kg	
5500 0150	-	5000 / 6000 kg	8000 / 10000 kg	
5500 0160	120-150 mm	-	12000 / 15000 kg	
5500 0200	200 mm	10000 / 12000 kg	25000 kg	
5500 0240	240 mm	15000 kg	-	
5500 0300	300 mm	20000 / 25000 kg	-	

PU protective hoses



Item - no.	for web slings up to band width		for use with round slings	price / metres
	fig. 1 + 2	fig. 3 + 4		
5500 2040	30 mm	-	-	Price on enquiry
5500 2050	-	-	500 / 1000 kg	
5500 2065	50-60 mm	-	1500 / 2000 kg	
5500 2070	-	600 / 1000 kg	-	
5500 2080	65-75 mm	1500 / 2000kg	3000 kg	
5500 2100	90 mm	3000 kg	4000 kg	
5500 2120	120 mm	4000 kg	5000 / 6000 kg	
5500 2150	-	-	8000 / 10000 kg	
5500 2160	140-150 mm	5000 / 6000 kg	12000 / 15000 kg	
5500 2180	160 mm	8000 kg	20000 kg	
5500 2200	-	10000 / 12000 kg	25000 kg	
5500 2250	240 mm	15000 kg	-	



Eye sling with abrasion protection double layer
Variant 1: strong
Variant 2: medium
DoPUPlus
DoRobust

Web slings can only be used with loads that have sharp edges or rough surfaces when they are protected at all areas in danger. All Dolezych web slings are therefore form-stabilized, braced and finished during manufacturing. For some kinds of usage, this is not enough. For rough use, the DoRobust eye sling has been developed. This web sling has a sealed texture that works as a "built-in" abrasion protection. The stirrup slings are coated with synthetic (approx. 1 mm of PU) after production. In doing so, the seams are sealed and protected. Do Robust is

highly abrasion-resistant despite being flexible and even more durable than standard web slings. In inspection series, the DoRobust web slings have shown significantly longer service periods.

If you consider a thinner and therefore cheaper coating to be sufficient, choose the medium variant instead of the strong coating.

Your advantages:

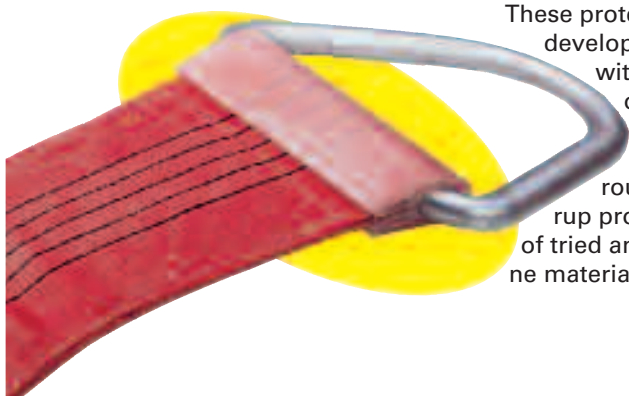
- Two variants for optimum use
- Integrated abrasion protection for longer service periods, even in rough use
- Highly abrasion-resistant, yet flexible and more durable than standard web slings

A further abrasion protection variant: **Latex**-synthetic impregnation for surface sealing and web sling plating. Please contact us for more info!

DoRobust eye slings

Item no. medium	Item no. strong	working load limit in kg		band width X thickness mm	eye length mm	eye width mm	min. length of band mm	DoRobust medium		DoRobust strong	
		single	double					price 1 metre	price additional metre	price 1 metre	price additional metre
0563 0312	0563 0302	1000	2000	30 x 7	200	15	850				
0563 0512	0563 0502	1000	2000	50 x 6	200	25	850				
0563 0612	0563 0654	1500	3000	65 x 6	250	35	1150				
0563 0652	0563 0602	2000	4000	60 x 7	300	30	1300	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
0563 0712	0563 0702	2000	4000	75 x 6	300	25	1300				
0563 0912	0563 0902	3000	6000	90 x 7	350	30	1500				
0563 1412	0563 1402	3000	6000	140 x 6	350	50	1600				
0563 1212	0563 1202	4000	8000	120 x 7	425	40	1600				
0563 1512	0563 1502	5000	10000	150 x 7	500	50	1900	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
0563 1812	0563 1802	6000	12000	180 x 7	550	60	2100				
0563 2412	0563 2402	8000	16000	240 x 7	600	80	2300				
0563 3012	0563 3002	10000	20000	300 x 10	625	100	2500				

Stirrup protection coating DoPU Plus



These protective coatings have been developed especially for web slings with steel stirrups. They offer optimal protection in the stirrup area, e.g. when the band is dragged across rough floors. DoPU Plus stirrup protection coatings are made of tried and tested DoLex polyurethane material.

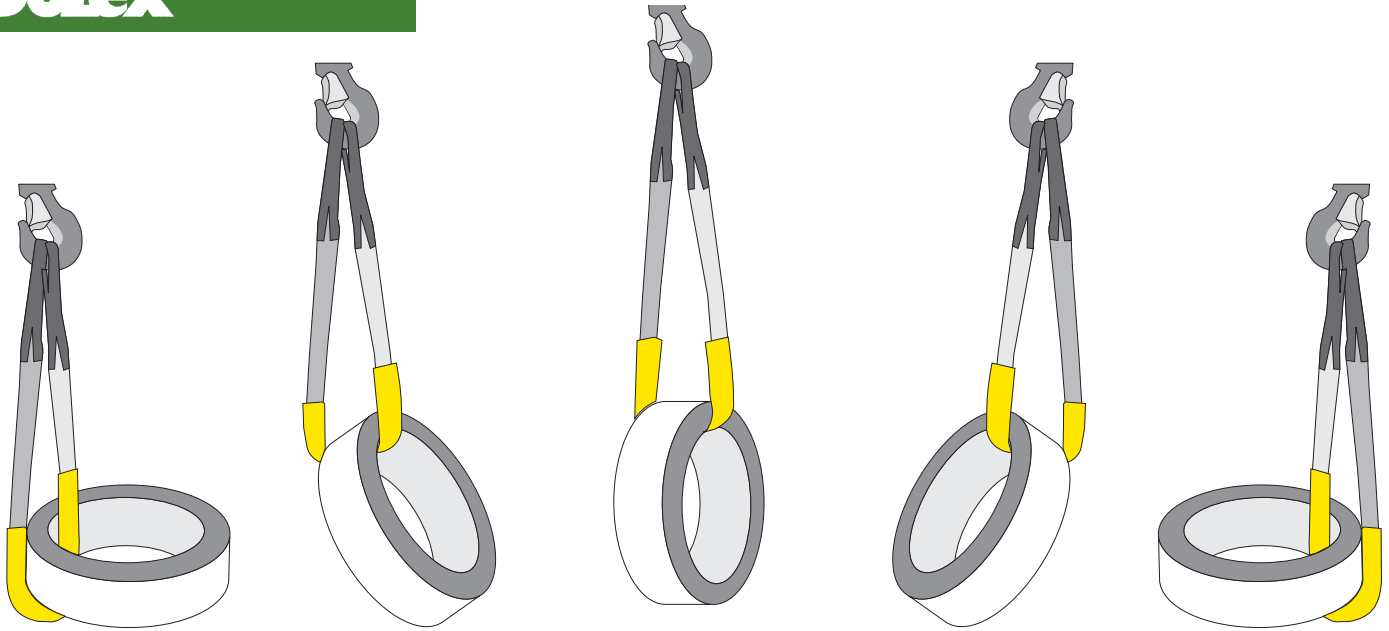
Item no.	for band - width up to mm	price / piece
4513 0050	50	
4513 0060	60	
4513 0075	75	
4513 0090	90/100	Price on enquiry
4513 0120	120	
4513 0150	150	

Other dimensions available on request!

Sharp edge protection

Profile hoses

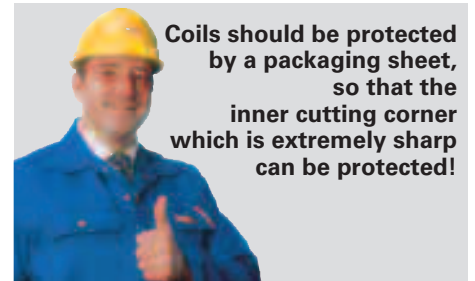
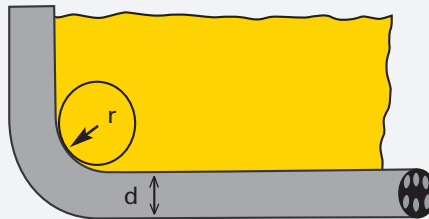
DoLex



What is a sharp edge?



An edge is defined as sharp if the radius of the load (r) is smaller than the radius (d) (thickness) of the web sling or rope or lifting chain.



Coils should be protected by a packaging sheet, so that the inner cutting corner which is extremely sharp can be protected!

Why sharp edge protection?

Because the webbing needs to be protected against cuts or because transported goods must be protected. Profile hoses as well as permanent coatings for web slings consist of polyurethane*.

What is sharp edge protection?

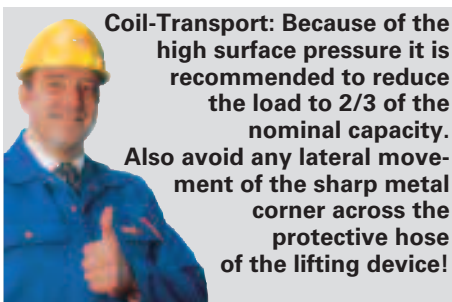
The web sling or roundsling is equipped with a textile profile hose which is coated with a minimum of 5 mm polyurethane. These are slideable and replaceable profi-

le hoses called DoLex 1+2).

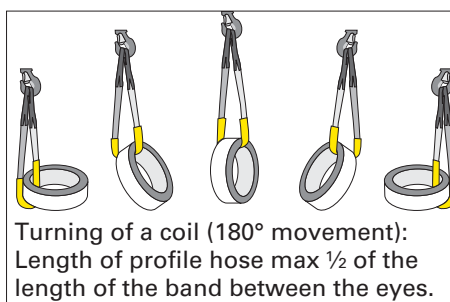
Alternatively, a web sling can be sealed with at least 5 mm of polyurethane on each side. This coating is fixed permanently to the web sling (DoLex permanent coatings see pages 49-51).

All permanent coatings and profile hoses can additionally be equipped with granular material with rough surfaces for improved slip resistance.

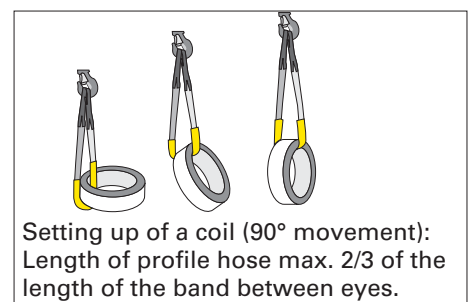
***Polyurethane** is a very resistant material. Compared to the flat state it becomes harder and more resistant against cuts when it is laid around a sharp edge. This effect results from the molecular structure which is compressed by a stressed surface.



Coil-Transport: Because of the high surface pressure it is recommended to reduce the load to 2/3 of the nominal capacity. Also avoid any lateral movement of the sharp metal corner across the protective hose of the lifting device!



Turning of a coil (180° movement): Length of profile hose max. 1/2 of the length of the band between the eyes.



Setting up of a coil (90° movement): Length of profile hose max. 2/3 of the length of the band between eyes.



DoLex 1 profile hoses

Due to their special textile core, DoLex 1 profile hoses (see next page) are easy to slide on and replaceable. Only this allows the turning of sharp-edged loads safely. DoLex profile hoses create the following effect: When the load is lifted, the profile hose keeps in contact with the load whereas the web sling slides gently through it allowing for elongation and free positioning under load.

Hint: The DoLex profile hose must be much shorter than the eye. Only this allows free movement of the profile hose.



DoLex 2 profile ribbed hoses

Similar to DoLex 1 profile hoses DoLex 2 ribbed hoses can be slid on and easily be replaced. DoLex 2 with ridge is equipped with a latitudinal channel which has to be placed towards the load. The advantage is that the load first lies on the rib. The hose therefore clings tighter to the load and offers better protection against slipping off. It also reduces the danger of crushing. The textile core hose allows for gentle sliding of the web sling.



DoLex 2 profile hose with rounded edge

The DoLex 2 profile hose with rounded edge is a further development of the DoLex 1 sharp edge protection. The rounded edge of the DoLex 2 hose offers better protection against squeezing of the web sling in the buckling area. In addition, the greater flexibility of the hose makes handling easier.

Sharp edge
protection

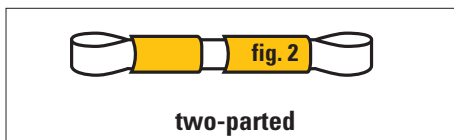
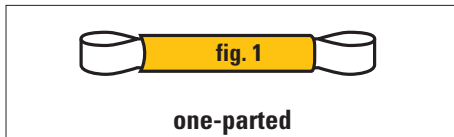
Profile hoses

DoLex

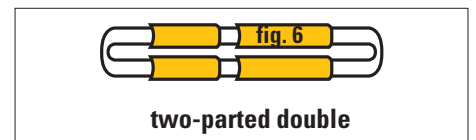
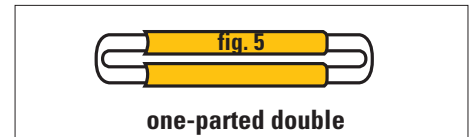
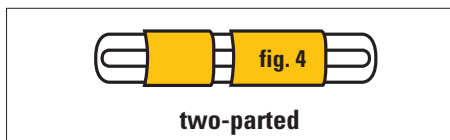


DoLex with glass fibre fleece inlay

variety of DoLex protective hoses for eye slings



variety of DoLex protective hoses for web slings / round slings

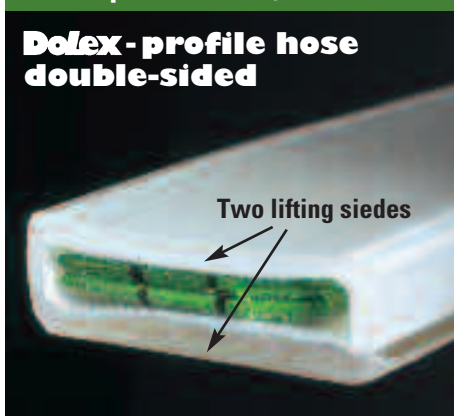


DoLex profile hose, one-sided smooth



Item no.	for web slings band width in mm	for round slings		price
		as shown in fig. 3 and 4	as shown in fig. 5 and 6	
5598 0500	30	–	500 kg / 1000 kg	Price on enquiry
5598 0600	50	–	1500 kg / 2000 kg	
5598 0700	60	500 kg / 1000 kg	–	
5598 0800	75	–	–	
5598 0850	–	1500 kg / 2000 kg	3000 kg	
5598 1000	90	3000 kg	4000 kg	
5598 1350	120	4000 kg	5000 kg / 6000 kg	
5598 1500	–	5000 kg / 6000 kg	8000 kg / 10000 kg	
5598 1600	150	–	12000 kg / 15000 kg	
5598 1800	180	8000 kg	20000 kg	
5598 2000	–	10000 kg/12000 kg	25000 kg	
5598 2400	240	–	–	
5598 2500	–	15000 kg	–	
5598 3200	300	20000 kg/25000 kg	–	

DoLex profile hose, double-sided smooth

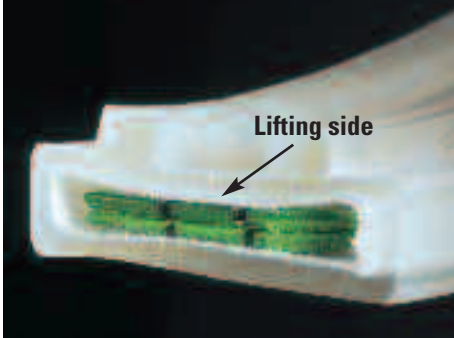


Item no.	for web slings band width in mm	for round slings		price
		as shown in fig. 3 and 4	as shown in fig. 5 and 6	
5598 0502	30	–	500 kg / 1000 kg	Price on enquiry
5598 0602	50	–	1500 kg / 2000 kg	
5598 0702	60	500 kg / 1000 kg	–	
5598 0802	75	–	–	
5598 0852	–	1500 kg / 2000 kg	3000 kg	
5598 1002	90	3000 kg	4000 kg	
5598 1352	120	4000 kg	5000 kg / 6000 kg	
5598 1502	–	5000 kg / 6000 kg	8000 kg / 10000 kg	
5598 1602	150	–	12000 kg / 15000 kg	
5598 1802	180	8000 kg	20000 kg	
5598 2002	–	10000 kg/12000 kg	25000 kg	
5598 2402	240	–	–	
5598 2502	–	15000 kg	–	
5598 3202	300	20000 kg/25000 kg	–	



DoLex profile hose ribbed / smooth

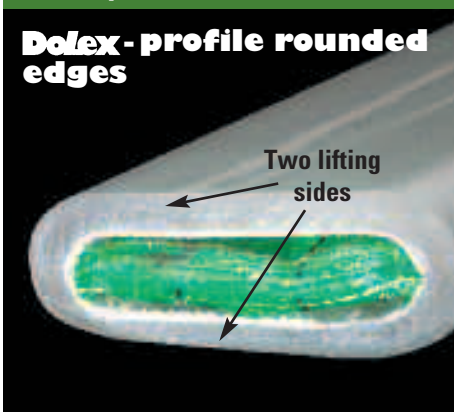
DoLex-profile hose ribbed



Item no.	for web slings band width in mm	for round slings		price
		as shown in fig. 3 and 4	as shown in fig. 5 and 6	
5598 0504	30	–	500 kg / 1000 kg	Price on enquiry
5598 0604	50	–	1500 kg / 2000 kg	
5598 0704	60	500 kg / 1000 kg	–	
5598 0804	75	–	–	
5598 0854	–	1500 kg / 2000 kg	3000 kg	
5598 1004	90	3000 kg	4000 kg	
5598 1354	120	4000 kg	5000 kg / 6000 kg	
5598 1504	–	5000 kg / 6000 kg	8000 kg / 10000 kg	
5598 1604	150	–	12000 kg / 15000 kg	
5598 1804	180	8000 kg	20000 kg	
5598 2004	–	10000 kg/12000 kg	25000 kg	
5598 2404	240	–	–	
5598 2504	–	15000 kg	–	
5598 3204	300	20000 kg/25000 kg	–	

DoLex profile hose with rounded edges / smooth on both sides

DoLex-profile rounded edges



Item no.	for web slings band width in mm	for round slings		price
		as shown in fig. 3 and 4	as shown in fig. 5 and 6	
5598 0614	50	–	1500 / 2000 kg	Price on enquiry
5598 0714	60	500 / 1000 kg	–	
5598 1114	90	3000 kg	4000 kg	
5598 1364	120	4000 kg	5000 / 6000 kg	
5598 1514	150	–	12000 / 15000 kg	
5598 1814	180	–8000 kg	20000 kg	
5598 2424	240	–	–	
5598 3214	300	20000 / 25000 kg	–	

DoLex profile hoses are produced with additional glass fibre fleece moulded in polyurethane. Please request additional info!

Stirrup slings with Permanent coating
Highly resistant against abrasions and cuts

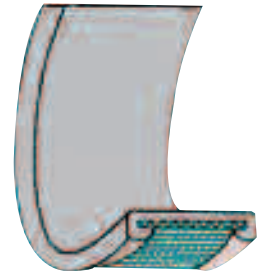
Dolex



DoLex Stirrup slings DH 100 with one sided permanent coating

	working load limit		band dimensions in mm	price 1 metre	price additional metre	DoLex. one sided coating	price additional metre coating
	single	in kg double					
	1000	2000	30 x 7	Price on enquiry	Price on enquiry	0512 9602	Price on enquiry
	2000	4000	60 x 7			0512 9752	
	3000	6000	90 x 7			0512 9782	
	4000	8000	120 x 7			0512 9852	
	5000	10000	150 x 7			0512 0002	
	6000	12000	180 x 7			0512 0102	
	8000	16000	240 x 7			0512 0202	
	10000	20000	300 x 10	0512 0302			

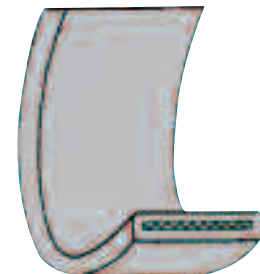
one sided smooth



DoLex Stirrup slings DH 100 with double sided permanent coating

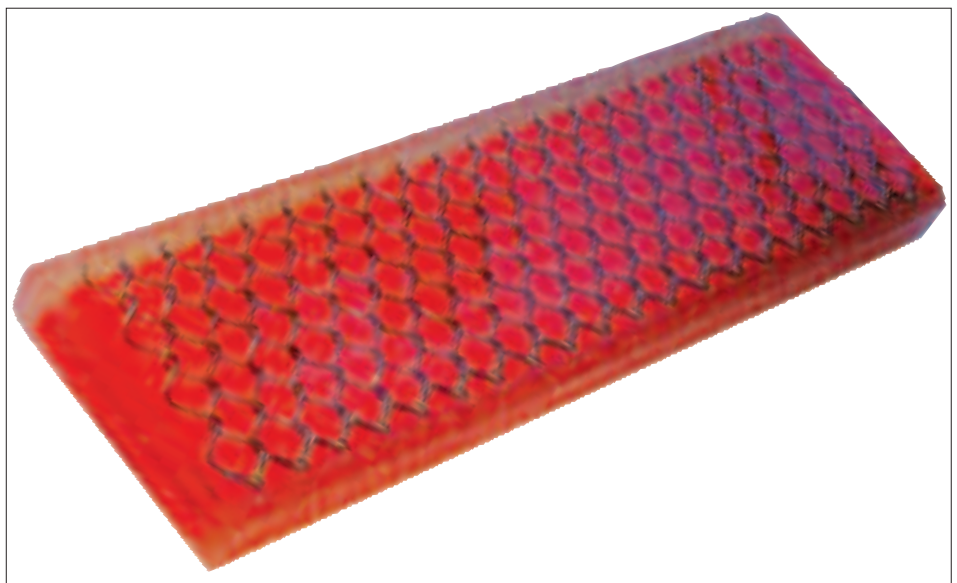
	working load limit		band dimensions in mm	price 1 metre	price additional metre	DoLex. double sided coating	price additional metre coating
	single	in kg double					
	1000	2000	30 x 7	Price on enquiry	Price on enquiry	0513 9602	Price on enquiry
	2000	4000	60 x 7			0513 9752	
	3000	6000	90 x 7			0513 9782	
	4000	8000	120 x 7			0513 9852	
	5000	10000	150 x 7			0513 0002	
	6000	12000	180 x 7			0513 0102	
	8000	16000	240 x 7			0513 0202	
	10000	20000	300 x 10	0513 0302			

double sided smooth

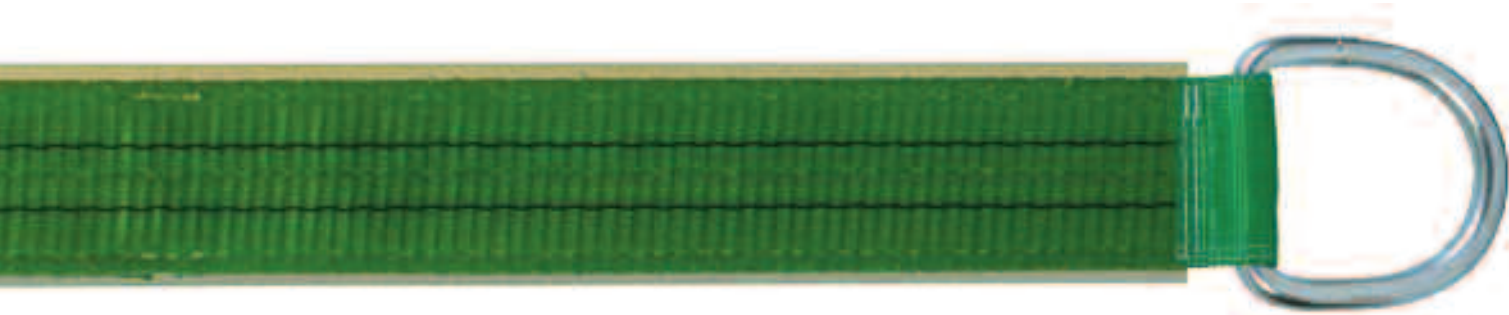


Additional cut protection metal core for DoLex hoses and permanent coatings

	for bandwidth mm	additional price for one sided metal core per metre
	30	Price on enquiry
	60	
	90	
	120	
	150	
	180	
	240	
	300	



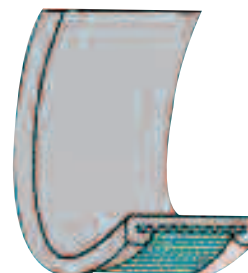
For slippery, oily, or greasy surfaces both profile hoses and permanent coatings can be equipped with rough surfaces or with granular material. Please inquire about details!



**DoLex web sling with one sided permanent coating
Eye on one end / choker-hook HSH on the other end**

	working load limit in kg		band dimensions in mm	price 1 metre	price additional metre	DoLex. one sided coating	price 1 metre of coating
	single	double					
	1000	2000	30 x 7	Price on enquiry	Price on enquiry	0528 9682	Price on enquiry
	2000	4000	60 x 7			0528 9752	
	3000	6000	90 x 7			0528 9782	
	4000	8000	120 x 7			0528 9852	
	5000	10000	150 x 7			0528 0082	

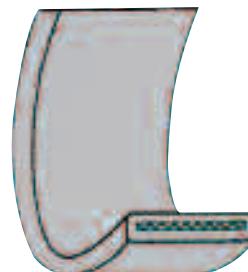
one sided smooth



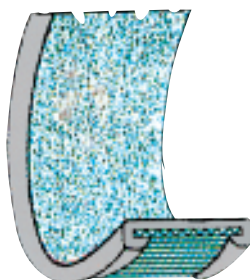
**DoLex web sling with double sided permanent coating
Eye on one end / choker-hook HSH on the other end**

	working load limit in kg		band dimensions in mm	price 1 metre	price additional metre	DoLex. double sided coating	price 1 metre of coating
	single	double					
	1000	2000	30 x 7	Price on enquiry	Price on enquiry	0529 9682	Price on enquiry
	2000	4000	60 x 7			0529 9752	
	3000	6000	90 x 7			0529 9782	
	4000	8000	120 x 7			0529 9852	
	5000	10000	150 x 7			0529 0082	
	6000	12000	180 x 7	0529 0182			
	8000	16000	240 x 7	0529 0282			
	10000	20000	300 x 10	0529 0382			

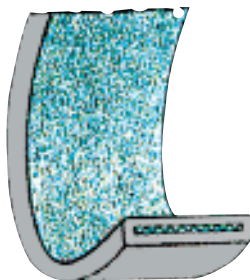
double sided smooth



Other DoLex varieties of permanent coatings are available on request.



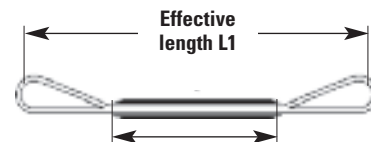
One sided non-slip granular coating



Double sided coating, one side non-slip granular coating

Sample order:

You would like to order:
1 piece DuLex web sling type A with eyes on both ends, working load limit 3 tons, 6 metres of effective length L1, with 3 metres of double sided permanent coating.
Your order will look like this:
1 piece art. no. 0568 9782 effective length L1 6m with 3 m permanent coating.



One or double sided length of coating

Eye slings With permanent coatings

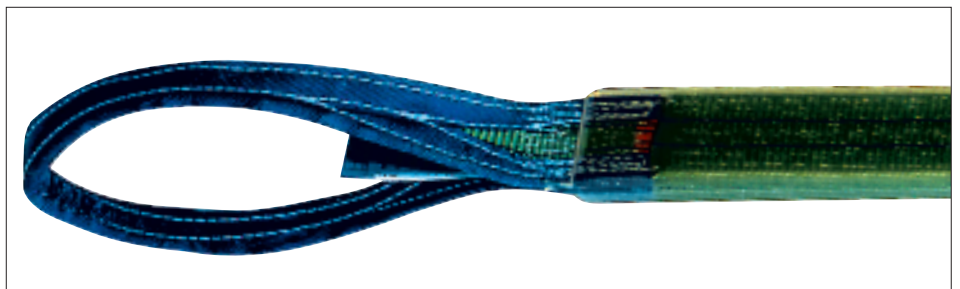
DoLex

Permanent coatings with a minimum thickness of 5 mm are advantageous if goods of small weight and width have to be transported with web slings of short effective length. Here, permanent coatings offer better flexibility than short and therefore inflexible hoses. DoLex permanent coatings are permanently sealed to the web sling - transparent for easier inspections of the fabric. However, DoLex permanent coatings should only be used if the load cannot move and there is no relative movement between load and coating. Choose DoLex profile hoses for all lifting procedures with relative movement.

Please note: Permanent coatings are inappropriate for turning sharp-edged loads!



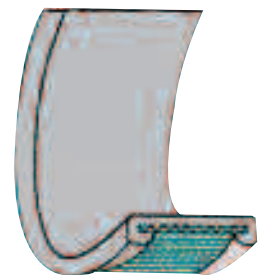
DoLex-lifting sling with double-sided fixed coating




DoLex web slings with one-sided permanent coating

	working load limit in kg		dimensions of band mm	price 1 metre	price additional metre	DoLex. one-sided coating	price additional metre coating
	single	double					
	1000	2000	30 x 7	Price on enquiry	Price on enquiry	0568 9602	Price on enquiry
	2000	4000	60 x 7			0568 9752	
	3000	6000	90 x 7			0568 9782	
	4000	8000	120 x 7			0568 9852	
	5000	10000	150 x 7			0568 0002	
	6000	12000	180 x 7			0568 0102	
	8000	16000	240 x 7			0568 0202	
	10000	20000	300 x 10			0568 0302	

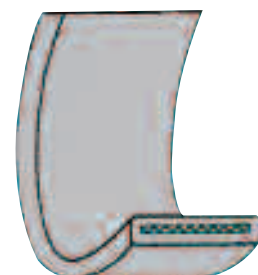
one sided smooth

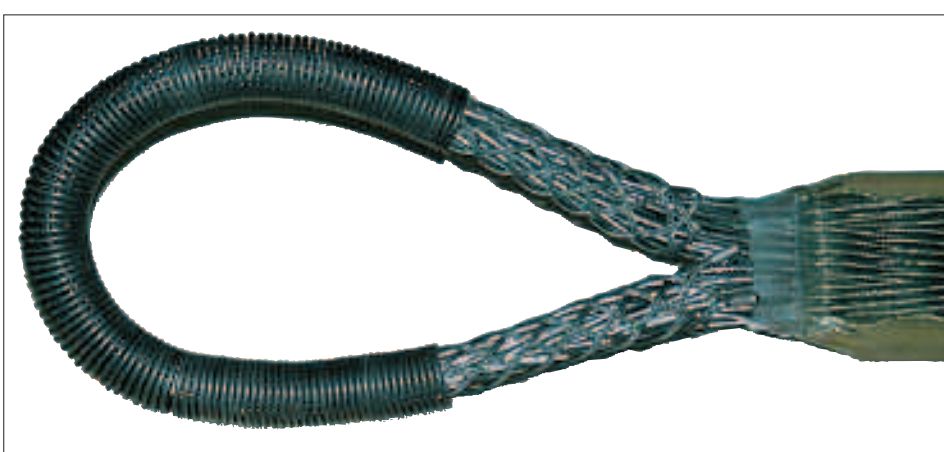


DoLex web slings with double-sided permanent coating

	working load limit in kg		dimensions of band mm	price 1 metre	price additional metre	DoLex. double-sided coating	price additional metre coating
	single	double					
	1000	2000	30 x 7	Price on enquiry	Price on enquiry	0569 9602	Price on enquiry
	2000	4000	60 x 7			0569 9752	
	3000	6000	90 x 7			0569 9782	
	4000	8000	120 x 7			0569 9852	
	5000	10000	150 x 7			0569 0002	
	6000	12000	180 x 7			0569 0102	
	8000	16000	240 x 7			0569 0202	
	10000	20000	300 x 10			0569 0302	

double sided smooth





Wire mesh slings made of galvanized spun wire strands

Dolex

Wire mesh slings made of galvanized spun wire strands are extremely long-lasting, load-protecting, and flexible.

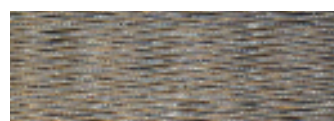
Dolezych delivers three different variants:

- With spiral spring thimbles on both ends
- With crane hooks on both ends, made of high-strength steel with tube thimbles keeping the stirrups movable and abrasion free
- Slip-through stirrup combination

Available in galvanized, vulcanized, or Dolex permanently coated versions.



Wire mesh slings are available in these variants:



Galvanized



Vulcanized



Dolex coated

Wire mesh slings

working load limit direct	working load limit double	surface	dimensions width X thickness mm	spiral spring thimbles Item no.	price	2 crane hooks Item no.	price	slip through stirrup Item no.	price	price
					1 metre		1 metre		1 metre	additional metre
500	1000	galvanized	40 x 6	0501 1004	Price on enquiry	0501 0004	Price on enquiry	0521 0004	Price on enquiry	Price on enquiry
		vulcanized	50 x 10	0503 0004		0503 0003		0523 0003		
		PU-coated	50 x 10	0504 1004		0504 0004		0524 0004		
1000	2000	galvanized	40 x 6	0501 2004	Price on enquiry	0501 2005	Price on enquiry	0521 2005	Price on enquiry	Price on enquiry
		vulcanized	50 x 10	0503 1005		0503 1006		0523 1006		
		PU-coated	50 x 10	0504 2004		0504 3005		0524 3005		
2000	4000	galvanized	60 x 8	0501 3004	Price on enquiry	0501 3005	Price on enquiry	0521 3005	Price on enquiry	Price on enquiry
		vulcanized	70 x 13	0503 2005		0503 2006		0523 2006		
		PU-coated	70 x 13	0504 3004		0504 3006		0524 3006		
3000	6000	galvanized	65 x 8	0501 4004	Price on enquiry	0501 4005	Price on enquiry	0521 4005	Price on enquiry	Price on enquiry
		vulcanized	80 x 13	0503 3004		0503 3006		0523 3006		
		PU-coated	80 x 13	0504 4004		0504 4005		0524 4005		
5000	10000	galvanized	100 x 8	0501 5004	Price on enquiry	0501 5005	Price on enquiry	0521 5005	Price on enquiry	Price on enquiry
		vulcanized	120 x 15	0503 4005		0503 4006		0523 4006		
		PU-coated	120 x 15	0504 5004		0504 5005		0524 5005		
8000	16000	galvanized	110 x 10	0501 6004	Price on enquiry	0501 6005	Price on enquiry	0521 6005	Price on enquiry	Price on enquiry
		vulcanized	120 x 20	0503 5005		0503 5006		0523 5006		
		PU-coated	120 x 20	0504 6004		0504 6005		0524 6005		
12000	24000	galvanized	140 x 10	0501 7004	Price on enquiry	0501 7005	Price on enquiry	0521 7005	Price on enquiry	Price on enquiry
		vulcanized	150 x 25	0503 6005		0503 6006		0523 6006		
		PU-coated	150 x 25	0504 7004		0504 7005		0524 7005		
15000	30000	galvanized	160 x 15	0501 8004	Price on enquiry	0501 8005	Price on enquiry	0521 8005	Price on enquiry	Price on enquiry
		vulcanized	200 x 30	0503 7005		0503 7006		0523 7006		
		PU-coated	200 x 30	0504 8004		0504 8005		0524 8005		
20000	40000	galvanized	200 x 20	0501 9004	Price on enquiry	0501 9005	Price on enquiry	0521 9005	Price on enquiry	Price on enquiry
		vulcanized	230 x 35	0503 8005		0503 8006		0523 8006		
		PU-coated	230 x 35	0504 9004		0504 9005		0524 9005		

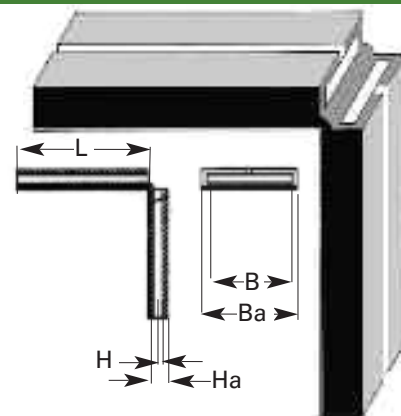
Sharp edge protection Accessories

Dolex



DoLex web sling edge protection corners made of polyurethane (PU) with additional perforated plate for equal load distribution.

Item no.	for band width mm	L	dimensions in mm				price/ piece
			B	Ba	H	Ha	
4511 0030	30	100	40	50	10	20	Price on enquiry
4511 0060	60	100	70	80	12	30	
4540 0090	90	100	100	110	12	30	
4511 0120	120	100	135	145	12	30	
4511 0150	150	150	160	170	12	30	
4511 0180	180	150	190	200	12	30	
4511 0240	240	200	280	300	15	40	
4511 0270	270	200	280	300	15	40	
4511 0300	300	200	320	340	20	45	



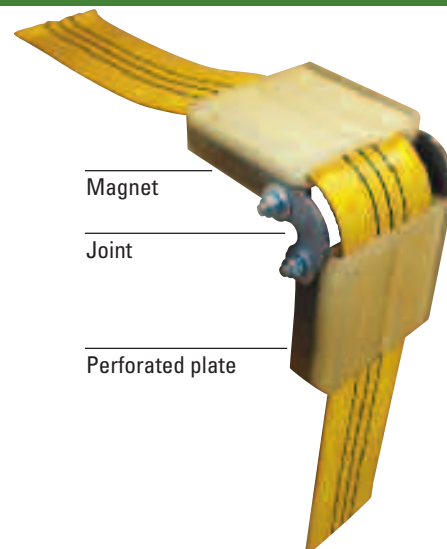
DoLex web sling edge protector made of Polyurethane (PU)

Item no. without magnet	Item no. with magnet	band width up to mm	price / piece without magnet	price / piece with magnet
4540 0025	4541 0025	25	Price on enquiry	Price on enquiry
4540 0040	4541 0040	40		
4540 0065	4541 0065	65		
4540 0075	4541 0075	75		
4540 0100	4541 0100	100		
4540 0125	4541 0125	125		
4540 0150	4541 0150	150		
4540 0200	4541 0200	200		
4540 0300	4541 0300	300		



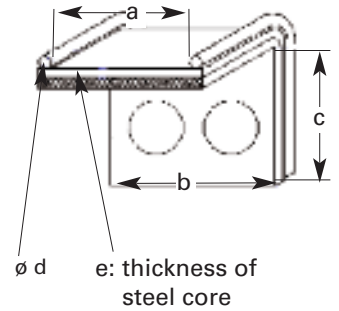
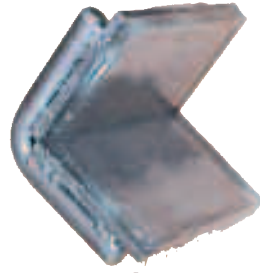
DoLex-edge protection with joint and magnet

Item no.	for band width mm	No. of magnets	price / piece
4511 0060	60	2	Price on enquiry
4511 0090	90	2	
4511 0150	150	4	
4511 0300	300	8	



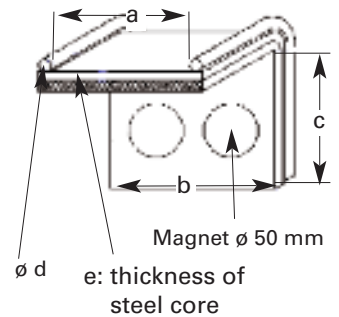
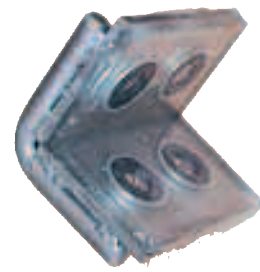
DoLex heavy load protection corners with steel core

Item no.	for band width up to / mm	a	dimensions in mm			d	e	weight kg	price / piece
			b	c					
4517 0030	30	35	60	100	12	6	0,80	Price on enquiry	
4517 0060	60	65	90	100	12	6	1,60		
4517 0090	90	95	120	100	12	6	2,40		
4517 0120	120	130	160	100	15	8	3,20		
4517 0150	150	160	190	100	15	8	4,00		
4517 0180	180	190	220	100	15	8	4,80		
4517 0240	240	250	280	100	15	8	6,40		
4517 0300	300	310	340	100	15	8	8,00		



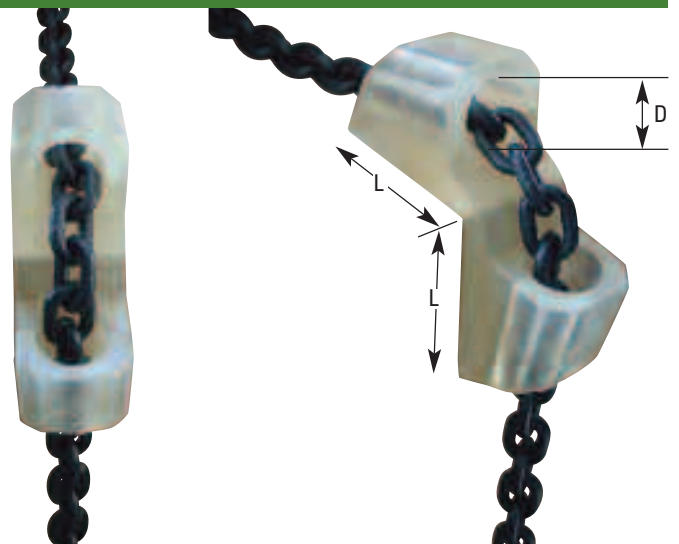
DoLex heavy load protection corners with magnet, with steel core

Item no.	for band width up to / mm	a	dimensions in mm			d	e	magnets optional	weight with magnets kg	price / piece
			b	c						
4518 0030	30	35	60	100	12	6	2	0,90	Price on enquiry	
4518 0060	60	65	90	100	12	6	2	1,70		
4518 0090	90	95	120	100	12	6	2	2,50		
4518 0120	120	130	160	100	15	8	4	3,40		
4518 0150	150	160	190	100	15	8	4	4,20		
4518 0180	180	190	220	100	15	8	4	5,00		
4518 0240	240	250	280	100	15	8	6	6,70		
4518 0300	300	310	340	100	15	8	8	8,40		



DoLex-edge protection with joint and magnet

Item no.	diameter ø mm	length mm	price / piece
4515 0030	30	80	Price on enquiry
4515 0040	50	125	Price on enquiry



Roundslings with single cover

DoForce 1

DoForce 1 roundslings

With continuous imprint of working load limit.

The roundslings have webbed in stripes for each ton working load limit, one stripe per ton.

Every roundsling is specially impregnated which makes it more resistant against abrasion and dirt.



DoForce roundslings with single cover

Item no.	WLL in kg single	Price each metre effective length L1	price additional 0,5 metre effective length L1
0514 0512	1000	Price on enquiry	Price on enquiry
0514 1012	1500		
0514 1512	2000		
0514 3012	3000		
0514 4512	4000		
0514 5512	5000		
0514 6012	6000		
0514 7512	8000		



PVC-protective hoses



Item - no.	protective hoses according to fig. 3+4 for roundslings up to WLL in kg		Price each metre
5500 0040	-	500/1000	Price on enquiry
5500 0060	-	1500/2000	
5500 0070	500/1000	-	
5500 0080	1500/2000	3000	
5500 0100	3000	4000	
5500 0120	4000	5000/6000	
5500 0150	5000/6000	8000/10000	
5500 0160	-	12000/15000	
5500 0200	10000/12000	25000	
5500 0240	15000	-	
5500 0300	20000/25000	-	

PU-Tex-protective hoses



Item - no.	protective hoses according to fig. 3+4 for roundslings up to WLL in kg		Price each metre
5500 2050	-	500/1000	Price on enquiry
5500 2065	-	1500/2000	
5500 2070	500/1000	-	
5500 2080	1500/2000	3000	
5500 2100	3000	4000	
5500 2120	4000	5000/6000	
5500 2150	-	8000/10000	
5500 2160	5000/6000	12000/15000	
5500 2180	8000	20000	
5500 2200	10000/12000	25000	
5500 2250	15000	-	



Protection against sharp edges:

Everything about abrasion protection and edge protection, i.e. protective hoses, permanent coating, impregnations and special webbing construction can be found on pages 46-55



Roundslings with double cover

DoForce 2



DoForce 2 roundslings with double cover

Item no.	WLL in kg single	Price each metre effective length L1	price additional 0,5 metre effective length L1
0514 0522	1000	Price on enquiry	Price on enquiry
0514 1022	1500		
0514 2522	2000		
0514 3022	3000		
0514 4522	4000		
0514 5522	5000		
0514 6022	6000		
0514 7522	8000		



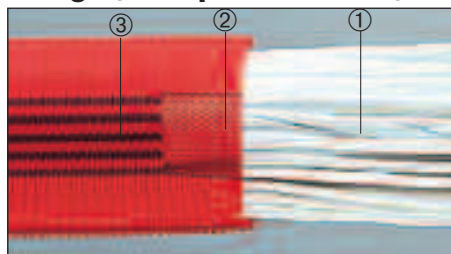
DoForce 2 double cover roundslings

Variants as DoForce 1 with double protection cover.

- Supporting element is a high-end PES polyester fibre webbing round-sling endlessly folded. The working load limit grows according to the number of these fibres.
- Protective cover made of seamless woven impregnated polyester webbing for endlessly folded fibre webbing.
- Long-lasting marking on the protective cover: One woven-in bar for

each ton of working load limit and imprinted working load limit on the other side.

Design (example DoForce 2)



Roundslings with woven-in WLL marking

DoWeb

Your advantages:

DoWeb has established itself by years of practice. Whenever a textile lifting device has to work under extremely difficult conditions, it has won its excellent standing. The slim and abrasion-resistant cover roundsling, the working load limit mark which is woven in on one side in addition to the bar code and the low tendency to wrinkle makes DoWeb a roundsling with very long service periods.

- thick special cover with extra stable webbing
- woven-in working load limit mark which can not rot or wear out
- tight cover = easy handling



Protection against sharp edges:

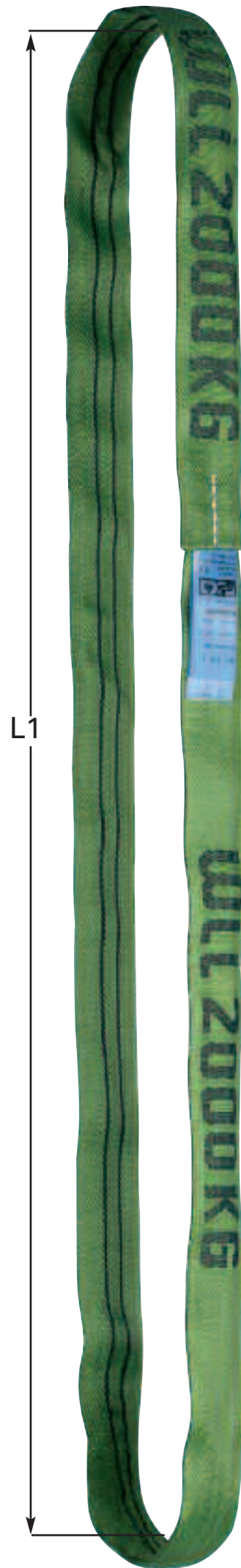
Everything about abrasion protection and edge protection, i.e. protective hoses, permanent coating, impregnations and special webbing construction can be found on pages 46-55

DoWeb PES roundslings with woven-in WLL marking

Item no..	WLL kg single	price 1 metre effective length	price additional 0,5 metre effective length
0514 0532	1000	Price on enquiry	Price on enquiry
0514 1032	1500		
0514 1532	2000		
0514 3032	3000		
0514 4532	4000		
0514 5532	5000		
0514 6032	6000		
0514 7532	8000		



On request all Dolezych products are available with RFID transponder technology. This allows an unambiguous identification of products. Contact us!



PVC-protective hoses



Item - no.	protective hoses according to fig. 3+4 for roundslings up to WLL in kg		Price each metre
	fig. 3+4	fig.5+6	
5500 0040	-	500/1000	Price on enquiry
5500 0060	-	1500/2000	
5500 0070	500/1000	-	
5500 0080	1500/2000	3000	
5500 0100	3000	4000	
5500 0120	4000	5000/6000	
5500 0150	5000/6000	8000/10000	
5500 0160	-	12000/15000	
5500 0200	10000/12000	25000	
5500 0240	15000	-	
5500 0300	20000/25000	-	

PU-Tex-protective hoses



Item - no.	protective hoses according to fig. 3+4 for roundslings up to WLL in kg		Price each metre
	fig. 3+4	fig.5+6	
5500 2050	-	500/1000	Price on enquiry
5500 2065	-	1500/2000	
5500 2070	500/1000	-	
5500 2080	1500/2000	3000	
5500 2100	3000	4000	
5500 2120	4000	5000/6000	
5500 2150	-	8000/10000	
5500 2160	5000/6000	12000/15000	
5500 2180	8000	20000	
5500 2200	10000/12000	25000	
5500 2250	15000	-	

Top rate roundslings with woven-in WLL marking

DoPremium

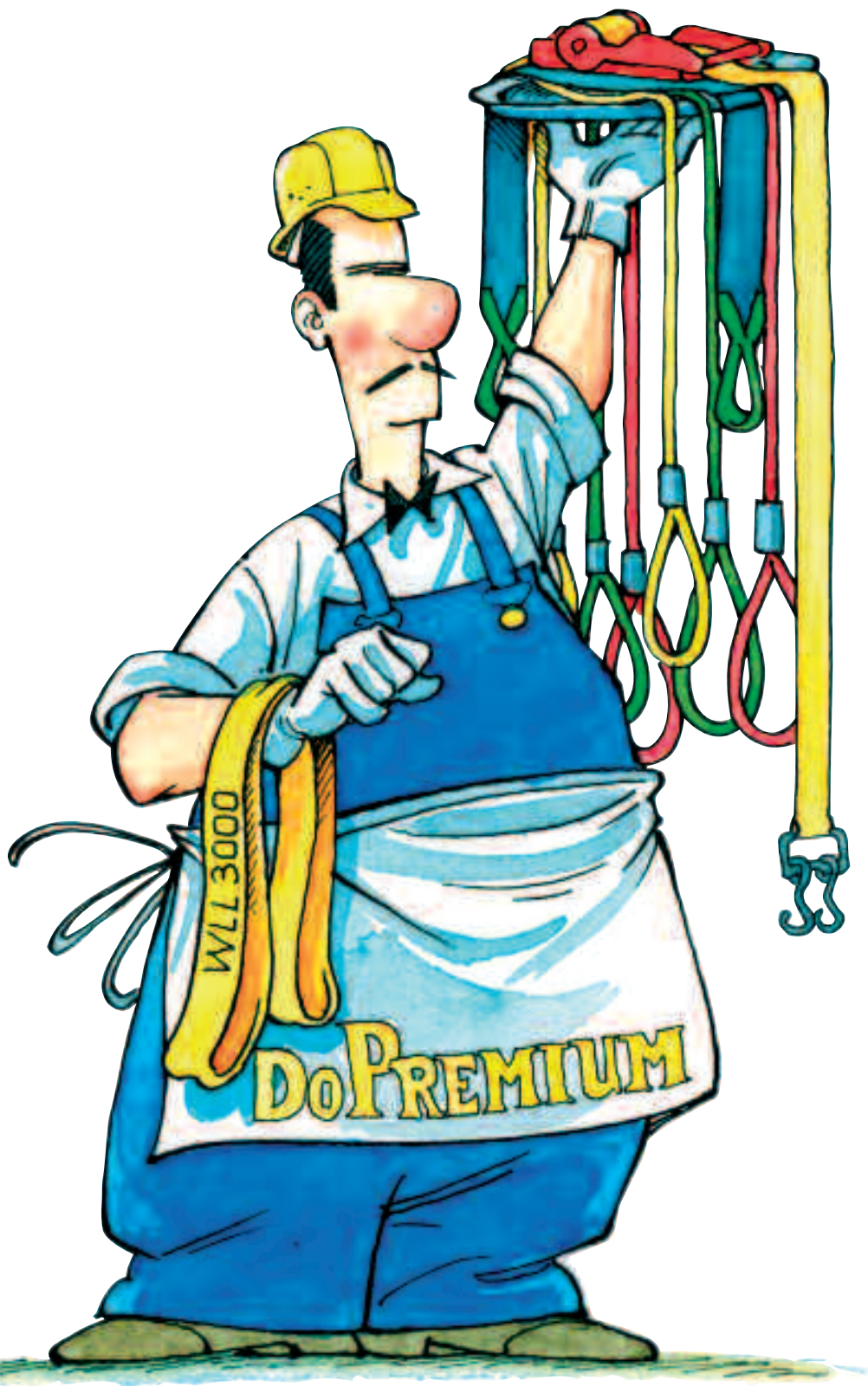
The DoPremium roundsling results from optimizing all available qualities concerning abrasion resistance, widths, tearing resistance, wrinkling tendency, service periods and safety coding.

The roundsling cover of the well-proven DoWeb has been developed even further. The **improved webbing design** now offers more protection against abrasion and improves handling as the wrinkling tendency has been reduced to a minimum.









According to the standard, a roundsling has to be disposed of if the cover is damaged in such a way that the folded fibres can be seen. Compared to other roundslings the DoPremium quality offers **longer service periods** as the thickness of the cover can be compared to the one of a web sling.

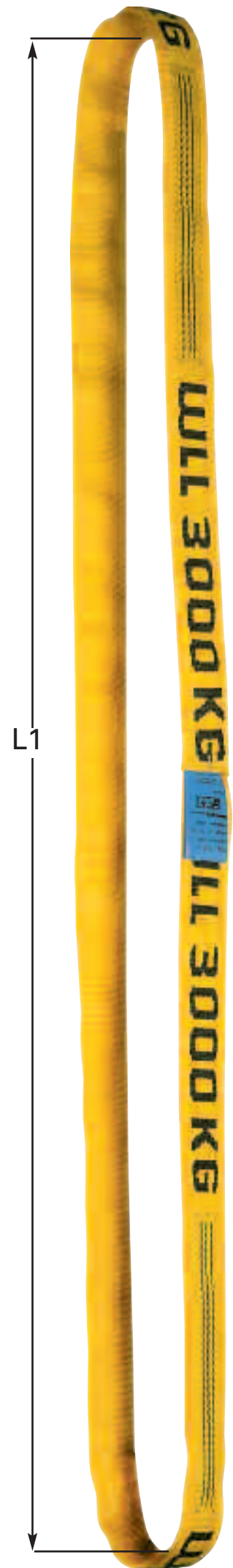
The DoPremium roundsling has, in addition to the bar code (1 bar for each ton of working load limit), a **woven-in working load limit mark**. This can smoothly glide over angular loads. The mark can not rot or wear off.

In addition to the **compact design**, the **optimized supporting width** under the load and a **premium design** distinguish these top-rate roundslings. With the new DoPremium, we offer a product which unites all characteristics of a robust and conforming to safety regulations high-value lifting device. It can really be called a **"supersling"**. New technology for even more safety!



DoPremium PES roundslings

Item no.	WLL single kg	price 1 metre effective length	price additional 0,5 metre effective length
 0514 0552	1000	Price on enquiry	Price on enquiry
 0514 1552	2000		
 0514 3552	3000		
 0514 4552	4000		
 0514 5552	5000		
 0514 6052	6000		
 0514 7552	8000		
 0514 8025	10000		
0514 9152	12000		
0514 9352	15000		



PVC-protective hoses



Item - no.	protective hoses according to fig. 3+4 for roundslings up to WLL in kg		Price each metre
	fig. 3+4	fig.5+6	
5500 0040	-	500/1000	Price on enquiry
5500 0060	-	1500/2000	
5500 0070	500/1000	-	
5500 0080	1500/2000	3000	
5500 0100	3000	4000	
5500 0120	4000	5000/6000	
5500 0150	5000/6000	8000/10000	
5500 0160	-	12000/15000	
5500 0200	10000/12000	25000	
5500 0240	15000	-	
5500 0300	20000/25000	-	

PU-Tex-protective hoses



Item - no.	protective hoses according to fig. 3+4 for roundslings up to WLL in kg		Price each metre
	fig. 3+4	fig.5+6	
5500 2050	-	500/1000	Price on enquiry
5500 2065	-	1500/2000	
5500 2070	500/1000	-	
5500 2080	1500/2000	3000	
5500 2100	3000	4000	
5500 2120	4000	5000/6000	
5500 2150	-	8000/10000	
5500 2160	5000/6000	12000/15000	
5500 2180	8000	20000	
5500 2200	10000/12000	25000	
5500 2250	15000	-	

Heavy load roundslings

Heavy load roundslings with velcro closer

DoMega

DoMega

We produce heavy load roundslings up to a carrying capacity of 100 tons in all lengths. The advantages for the lifting of heavy loads are obvious: Compared to chains and ropes, a low own weight, especially protecting sensitive goods.

In the higher weight range, DoMega roundslings should be equipped with sharp edge protection if the loads are very angular or if they have sharp edges.

DoMega heavy load roundslings with velcro closer system

Your advantages:

- easy opening of the cover allows for control and inspection of the suspending fibre webbing
- expendability of the cover in case of damage or dirt – in-house or at our enterprise location
- easy to inspect
- can be repaired quickly
- low repair costs
- performance control permanently possible



Weight reduction through high-tech-fibres.

Do not hesitate to ask us.



DoMega PES heavy load roundslings

Item no.	WLL in kg single	min. effective length mm	price 1 metre effective length	price additional 0,5 metre
0514 8012	10000	1000	Price on enquiry	Price on enquiry
0514 9112	12000	1000		
0514 9312	15000	1500		
0514 9512	20000	1500		
0514 9812	25000	2000		
0514 9912	30000	2000		
0514 9962	40000	2000		
0514 9972	50000	3000		
0514 9932	60000	4000		
0514 9942	80000	5000		
0514 9992	100000	6000		

Ask for special components exceeding 100 t working load limit!

DoMega PES heavy load roundslings with velcro closer

Item no.	WLL in kg single	min. effective length mm	price 1 metre effective length	price additional 0,5 metre
8514 8052	10000	1000	Price on enquiry	Price on enquiry
8514 8152	12000	1000		
8514 8252	15000	1500		
8514 8352	20000	1500		
8514 8452	25000	2000		
8514 8552	30000	2000		
8514 8652	40000	2000		



Lifting procedure using 4 round-slings 150 t each total weight 600 t.

Heavy load
roundslings
Heavy load
suspension

DoMega

DoMega heavy load roundslings

**Save weight
but not working load limit!**

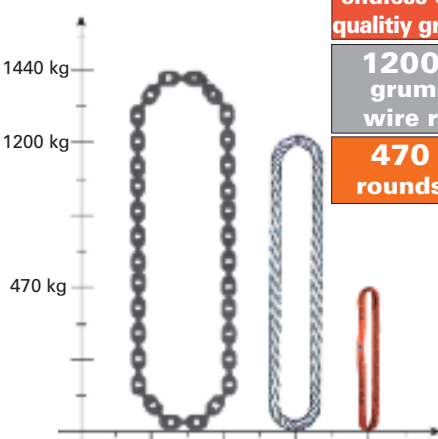
Compare for example:
working load limit 100 t
20 m effective length (40 m circumference)

Own weight of lifting devices:

1440 kg
endless chain,
quality grade 60

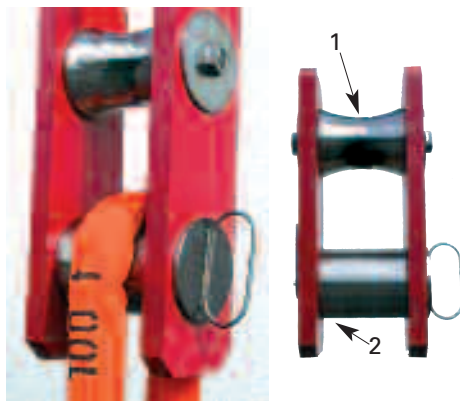
1200 kg
grummet
wire rope

470 kg
roundsling



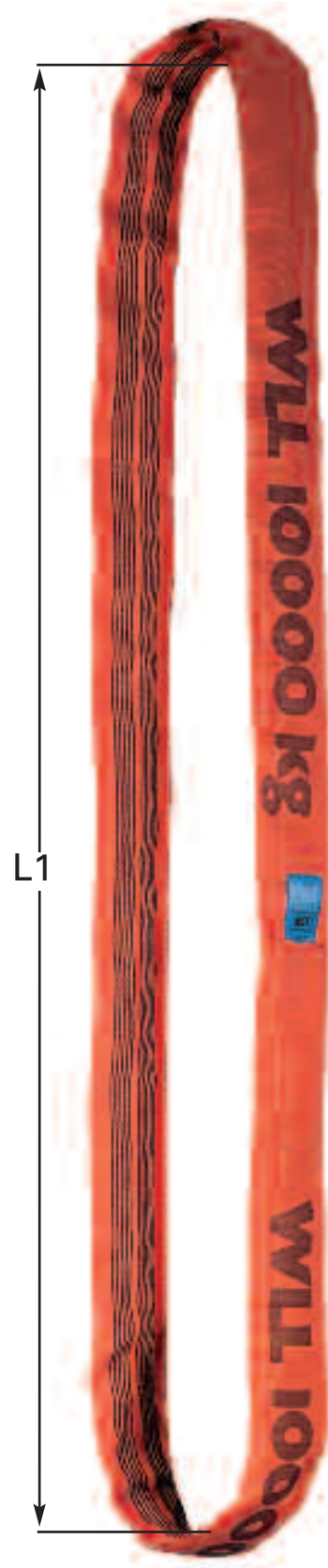
**DoSL heavy load suspension
WLL 100 t**

Item no.	WLL t	weight kg	Price each piece
0321 8100	100	400	on request



Suspension bolt self-centring on crane hook. Diameter of carrying bolt 300 mm.

Price for larger dimensions and higher carrying capacities on request!



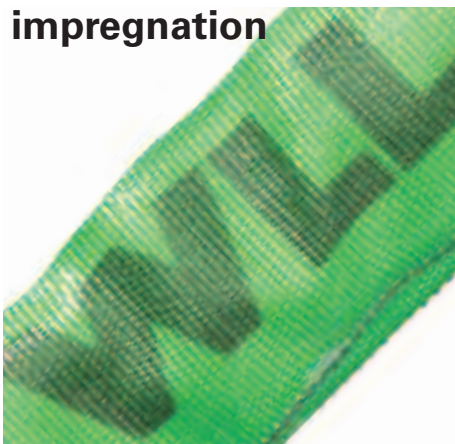
Roundslings with DoStabil PU-impregnation

DoStabil

The unique idea lays in the especially strong impregnation of the roundsling cover using polyurethane. By this, the slings are made non-skid and moisture repellent. Therefore the suspending fibre webbing is especially protected. The sling is stiffer and firmer than the variants without impregnation, but still light and flexible. By a special treatment, the impregnation does not penetrate the supporting fibres. With imprinted working load limit marks and additional barcode.



with PU-impregnation



DoStabil roundslings with PU-impregnation are optimized for "basket" type lifting. Avoid lifting "chocker" type!

DoStabil PES roundslings with PU impregnation

Item no.	WLL in kg single	price 1 metre effective length L1	price additional 0,5 metre effective length L1
0514 0542	1000	Price on enquiry	Price on enquiry
0514 1042	1500		
0514 1542	2000		
0514 3042	3000		
0514 4542	4000		
0514 5542	5000		
0514 6042	6000		
0514 7542	8000		





Rundslings made from Polyamide/ Polypropylene

DoProp DoLux



Polyamide- and polypropylene roundslings are produced on your request. Please order in time!

DuLux roundslings PA (polyamide)

Depending on the use, roundslings may come in contact with alkaline solutions. As roundslings made of polyester fibres can be destroyed by chemical reactions, Dolezych additionally has developed DoLux roundslings especially for the use with alkaline solutions. Please note that the service period varies depending on the concentration of the chemical, the temperature and the duration of use. Please ask Dolezych for specific information!

Your advantages:

- great abrasion resistance and stable form due to material
- superb resistance against alkaline solutions



Label for Polyamid-roundsling



Label for Polypropylene-roundsling

DoProp roundslings PP (polypropylene)

Highly appropriate for the use with chemicals. High resistance against acids and alkaline solutions, therefore use with different chemicals is possible.

The specific weight is lower than the ones of polyester and polypropylene- the roundsling is lighter. PP-roundslings are more voluminous at the same working load limit than PES or PA roundslings, as a single thread is thicker at the same firmness.



Ask for information about other materials like Kevlar or Dyneema.

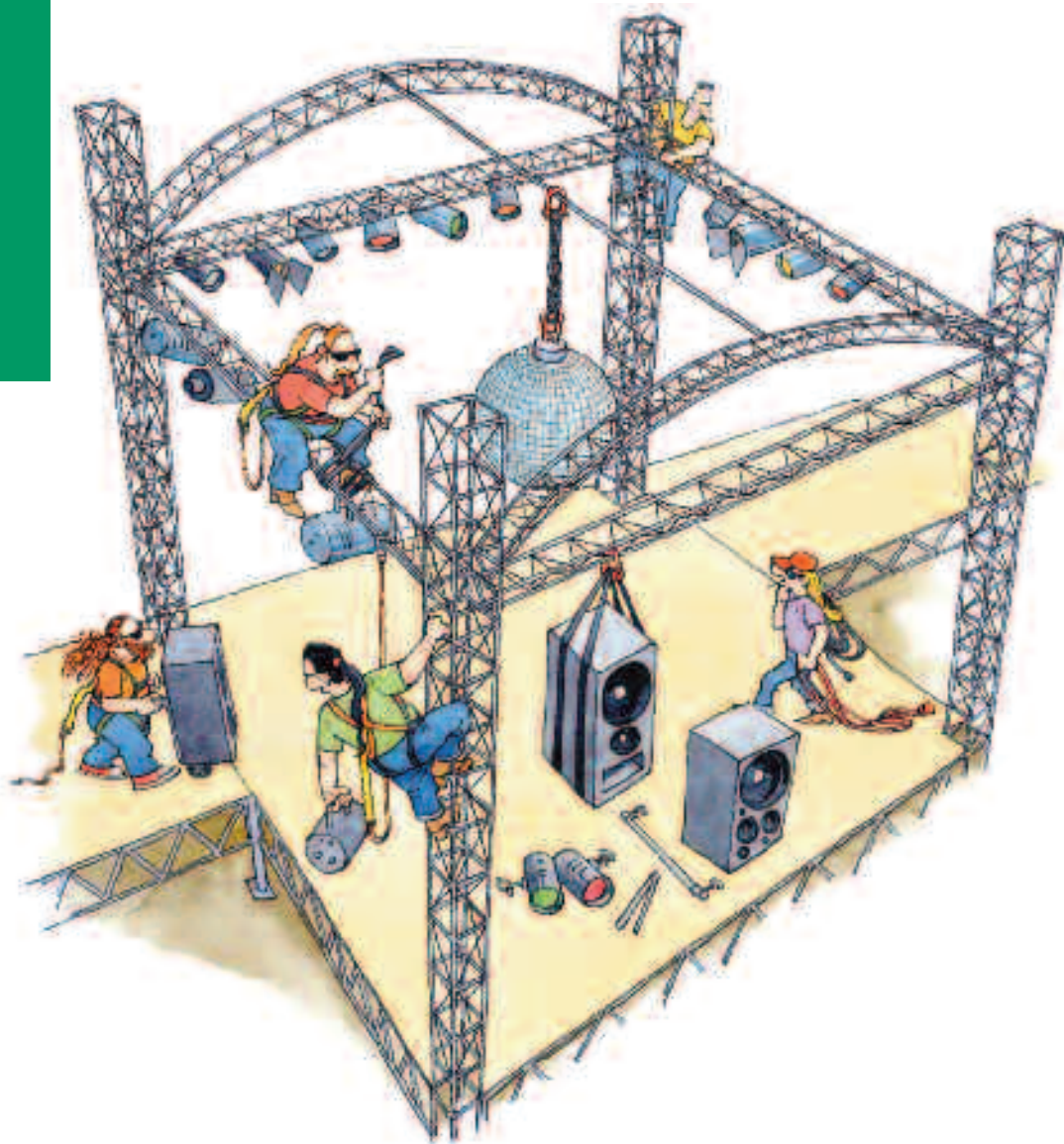
Roundslings made of polyamide (DoLux) and polypropylene (DoProp)

Item no.	WLL in kg	price for DoLux		price for DoProp	
		1 metre effective length	additional 0,5 m	1 metre effective length	additional 0,5 m
0514 002*	500	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
0514 052*	1000				
0514 102*	1500				
0514 152*	2000				
0514 302*	3000				
0514 452*	4000				
0514 552*	5000				
0514 602*	6000				
0514 752*	8000				

* Please complete the Item no. DoLux = 1, DoProp = 3

Black roundslings for stages and events

DoColor



Black roundslings for stage and event engineering

Item no.	WLL effective length in kg single	price 1 m effective length	price additional 0,5 m
0514 0562	1000	Price on enquiry	Price on enquiry
0514 1562	2000		
0514 3062	3000		

The design of these roundslings corresponds to DoForce 1 roundsling design. It does not meet DIN EN 1492-2 because of its black colour and is produced "closely following" DIN 1492 -2.

Virtually invisible black roundslings are used for stage- and event engineering,

for lifting sceneries, for supporting, lifting and connecting. Easy and universally use, easily and safely mountable with shackles.

Available in every effective length / circumference.

More accessories especially for stage and event engineering can be found on pages 251 and 252.



Waste disposal?
All products can be disposed of environmentally clean!

Materials

Polyester
Polypropylene
Polyamide

3 materials, 3 superb qualities for woven web slings and roundslings

Production

Polyester- as well as polyamide- and polypropylene fibres are produced by melt spinning. The raw materials are granular materials which are melted and pressed in spinnerets. The spinnerets produce thin single threads consisting of either polyester- or polyamide- or polypropylene fibres. This procedure consumes energy. The energy consumption is smaller corresponding to a lower melting point. That means that for the production of polypropylene fibres less energy is needed than for the production of polyester- or polyamide fibres. All three of these materials can be disposed of environmentally safe. Storage as well as waste combustion is problem-free. Water and carbon dioxide are the only combustion products.

Equipment

Stirrup slings for textile web slings and pipes for roundslings consisting of polyester and polyamide are usually made of polyurethane (PU). Colouring with polyurethane equipment follows during the pre-drying process at 130° - 160°C. Then follows drawing (thermosetting) with at least 130°C, usually between 160°C and 200°C.

For the production of stirrup slings and hoses from polypropylene however, spin dyed fibres are used as later colouring of PP is impossible because of its low deformation point. For higher abrasion resistance, PP is equipped with acrylate or a mixture of acrylate and PU at a temperature between 60°C and 100°C. The ranking of non-equipped materials, concerning abrasion resistance, is as follows: Polyamide is slightly better than polyester. The third place goes to polypropylene.

Ready-made materials are more difficult to measure. For PES, PA and PP, the quality of the raw materials used for additional equipment, temperature effects and the production procedure influence the result. Concerning abrasion resistance, polyester and polyamide should be comparable, polypropylene is slightly weaker. Fibres in folded roundslings are usually uncoloured white and need not be abrasion resistant, as the hose works as abrasion protection. This applies for roundslings made of polyester as well as for polyamide and for polypropylene.

Practical use:

Ready-made web slings and roundslings made of three different materials differ concerning elongation, resistance against chemical and thermal impact. Polyester roundslings show the least elongation of 1 - 1,5%. Polypropylene follows with 2,5 - 3% before polyamide with 3%. Elongation of roundslings is intrinsically elastic elongation, as the inner fibres of roundslings are folded and not woven. Elongation of woven web slings is a combination of structural elongation and elastic elongation. Structural elongation is a settling phenomenon which lengthens the web sling permanently. This settling phenomenon is already finished after a few uses up to the working load limit. Elastic elongation is the enlargement of web slings under load. After the first load (and correspondingly the biggest enlargement) and the following relief the elongation will disappear completely.

After a few cycles of load and relief elongation will become constant. That means the elongation curve will remain approximately constant within the range of the working load limit.

Woven web slings with optimized elongation undergo a drawing procedure during their production. At full working load limit, they have a total elongation (structural plus elastic elongation) of 3 - 5% (PES), 5 - 7% (PA6) and 4 - 6% (PP).

Elongation depends on the kind of weaving, the thickness of the material, the material itself and production. We would be happy to consult you!

Comparing the temperature range of the three materials, it is most striking that both polyester and polyamide can be used up to 100°C. Polypropylene can be used according to the standard to up to 80°C at least. Ask for use in other temperature ranges.

When used with chemicals, please note that polyester is highly resistant against acids. Polyamide is resistant against alkaline solutions. Polypropylene can be used for acids as well as for alkaline solutions. However, you should pay attention to the practical conditions of use. In any case, you should observe the concentrations of acids and alkaline solutions, the influence of temperature and the duration of use. Dramatic risks concerning the service period exist in different conditions. Ask for our advice!

Characteristic features compared:

	PES	PA6	PP
specific weight g/cm ³	1.38	1.14	0.91
elongation at WLL			
for roundslings	1 - 1.5 %	2.5 - 3 %	
for woven web slings (optimized elongation)	3 - 5 %	5 - 7 %	4 - 6 %
dimensional stability (for woven equipped web slings)	very good	very good	very good
abrasion resistance	very good	very good	good
absorption of humidity at %:			
65% relative humidity of air	0.2 - 0.5	3.5 - 4.5	0
100% relative humidity of air	0.9 - 1	6 - 9	0
melting range	250 - 260°C	215 - 220°C	160 - 175°C
temperature range for use	-40/+100°C	-40/+100°C	-40/+80°C
resistance against chemicals:			
acids	good	sufficient	very good
alkaline solutions	sufficient	very good	very good

Use with chemicals

Depending on concentration, temperature range and duration of use, even products from polyester, polyamide and polypropylene can be weakened. When in doubt, please let us know about the conditions of use, so we can calculate the appropriate material and working load limit range.

Please clean web slings and roundslings with clear water only without use of chemicals.

Web sling suspensions with safety snap hooks DIN 7541 1 and 2 legs

DoColor

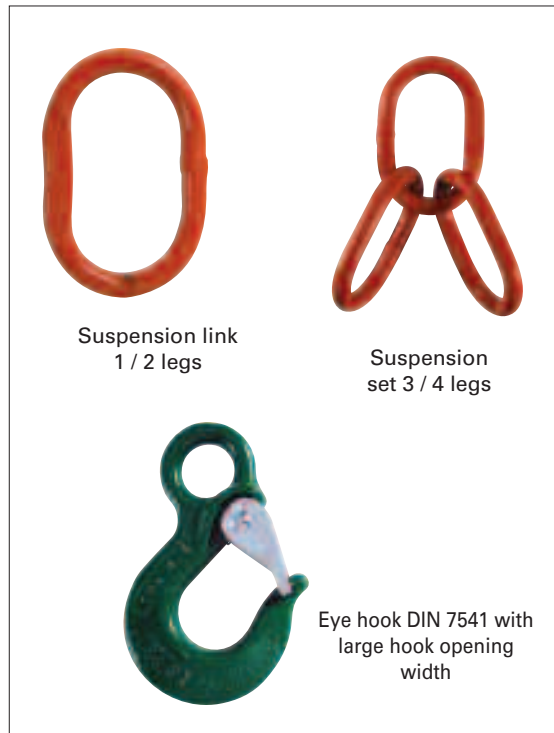


DoColor web sling suspensions combine an easy-to-handle grade 50/80 hoisting (suspension link and suspension set grade 80, eye hook grade 50) with a large hook opening width and flexible, load-protecting webbing. Web sling suspensions should be equipped with abrasion protection or sharp edge protection if they are used for "choker" type lifting with rough or angular surfaced loads.

Your advantages:

- easy-to-handle combination of load protection webbing and grade 50/80 fittings
- large hook opening widths
- fittings are permanently sewn to the webbing but are re-usable after inspection

Roundsling suspensions see p. 60-61

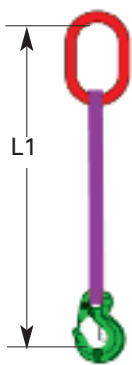


Suspension link
1 / 2 legs

Suspension
set 3 / 4 legs

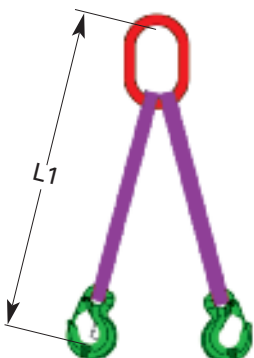
Eye hook DIN 7541 with
large hook opening
width

DoColor web sling suspensions 1 leg



	Item no.	working load limit in kg	band width X thickness in mm	hook opening width in mm	price 1 metre	price additional metre
Orange	0515 1001	500	30 x 3.5	18.0	Price on enquiry	Price on enquiry
Purple	0515 2001	1000	30 x 7.0	25.0		
Green	0515 4001	2000	60 x 7.0	35.5		
Yellow	0515 5001	3000	90 x 7.0	45.0		

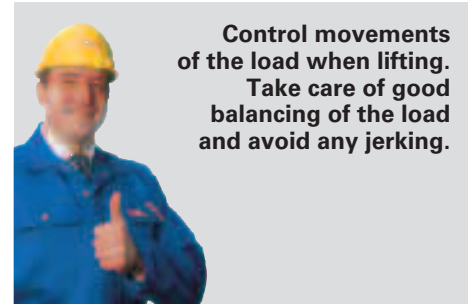
DoColor web sling suspensions 2 legs



	Item no.	working load limit up to an angle of 45° in kg	band width X thickness in mm	hook opening width in mm	price 1 metre	price additional metre
Orange	0515 1002	700	30 x 3.5	18.0	Price on enquiry	Price on enquiry
Purple	0515 2002	1400	30 x 7.0	25.0		
Green	0515 4002	2800	60 x 7.0	35.5		
Yellow	0515 5002	4200	90 x 7.0	45.0		

Web sling suspensions with safety snap hooks DIN 7541 3 and 4 legs

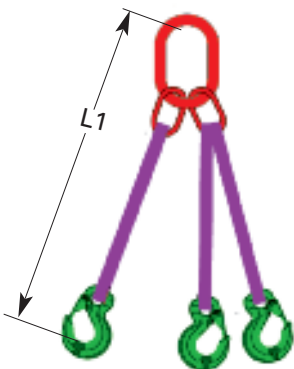
DoColor



Control movements of the load when lifting. Take care of good balancing of the load and avoid any jerking.

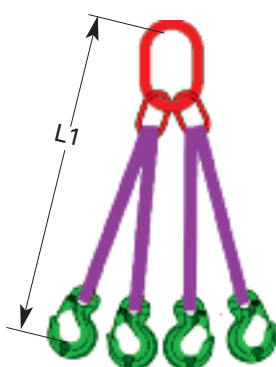


DoColor web sling suspensions 3 legs



	Item no.	working load limit up to an angle of 45° in kg	band width X thickness in mm	hook opening width in mm	price 1 metre	price additional metre
Orange	0515 1003	1050	30 x 3.5	18.0	Price on enquiry	Price on enquiry
Purple	0515 2003	2100	30 x 7.0	25.0		
Green	0515 4003	4200	60 x 7.0	35.5		
Yellow	0515 5003	6300	90 x 7.0	45.0		

DoColor web sling suspensions 4 legs



	Item no.	working load limit up to an angle of 45° in kg	band width X thickness in mm	hook opening width in mm	price 1 metre	price additional metre
Orange	0515 1004	1050	30 x 3.5	18.0	Price on enquiry	Price on enquiry
Purple	0515 2004	2100	30 x 7.0	25.0		
Green	0515 4004	4200	60 x 7.0	35.5		
Yellow	0515 5004	6300	90 x 7.0	45.0		

System suspensions made of webbing 1 - 4 legs with coupling element **DoLeicht H**

DoLeicht system suspensions combine textile webbing with grade 80 connecting elements.

DoLeicht is available in two variants:

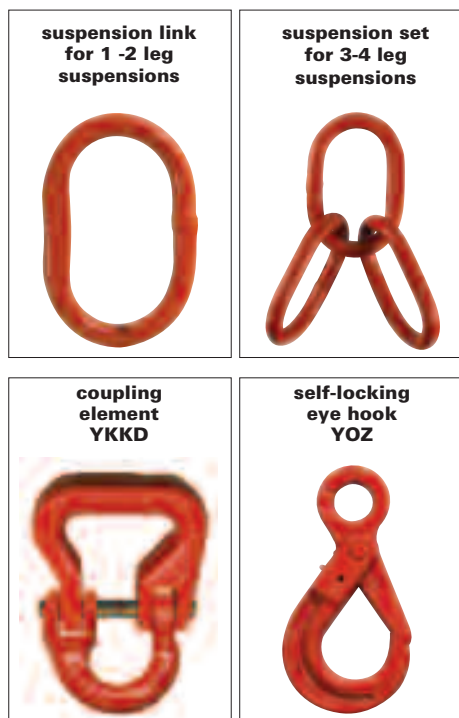
System A for 1-4 leg suspensions for a working load limit up to 16.800 kg with self locking eye hooks (see page 70)

Your advantages:

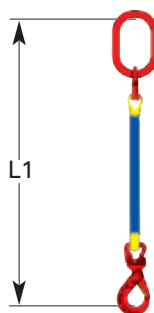
- webbing legs additionally reinforced with abrasion protection
- Easy-to-handle combination of load protection webbing and high strength fittings
- Connecting elements allow for quick self-assembly
- Reduced weight compared to chain-and-rope suspensions of the same working load limit

Components System A For 1 – 4 legs

With self-locking eye hook YOZ up to a working load limit of 16.800 kg 4 legs

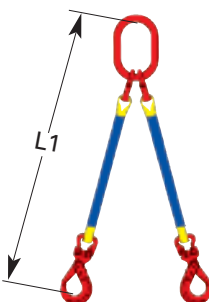


DoLeicht H 1 leg System A With self locking eye hooks YOZ



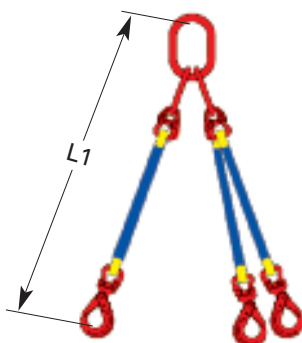
	system A	working load limit in kg	band width in mm	price 1 metre	price additional metre
Item no.	0545 1001	1000	30	Price on enquiry	Price on enquiry
	0545 1501	1500	65		
	0545 2001	2000	60		
	0545 3001	3000	90		
	0545 4001	4000	120		
	0545 5001	5000	150		
	0545 6001	6000	180		
	0545 8001	8000	240		

DoLeicht H 2 legs System A With self locking eye hooks YOZ



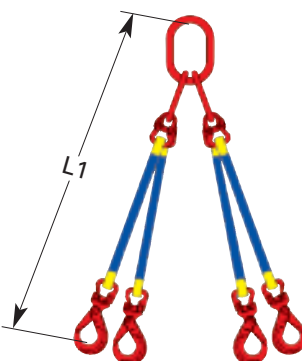
	system A	working load limit in kg	band width in mm	price 1 metre	price additional metre
Item no.	0545 1402	1400	30	Price on enquiry	Price on enquiry
	0545 2102	2100	65		
	0545 2802	2800	60		
	0545 4202	4200	90		
	0545 5602	5600	120		
	0545 7002	7000	150		
	0545 8402	8400	180		
	0545 1202	11200	240		

DoLeicht H, 3-strängig, System A



	system A	working load limit in kg	band width in mm	price 1 metre	price additional metre
Item no.	0545 2103	2100	30	Price on enquiry	Price on enquiry
	0545 3153	3150	65		
	0545 4203	4200	60		
	0545 6303	6300	90		
	0545 8403	8400	120		
	0545 0503	10500	150		
	0545 2603	12600	180		
	0545 6803	16800	240		

DoLeicht H, 4-strängig, System A



	system A	working load limit in kg	band width in mm	price 1 metre	price additional metre
Item no.	0545 2104	2100	30	Price on enquiry	Price on enquiry
	0545 3154	3150	65		
	0545 4204	4200	60		
	0545 6304	6300	90		
	0545 8404	8400	120		
	0545 0504	10500	150		
	0545 2604	12600	180		
	0545 6804	16800	240		

Please indicate length L 1 when ordering!
Carrying load capacities for 2-4 legs refer to maximum angle β of 45°.



**System suspen-
sions made of
webbing
2 legs
with KBR-hooks**

DoLeicht H

Sample order:

You would like to order:
1 piece **DoLeicht H**, system suspension B,
2 legs, working load limit 2.800 kg, effective length
3 m.

Your order will look like this:
1 piece Item no. 0546 2802 effective length 3 m

DoLeicht H
system A
with YOZ--hook



**DoLeicht H
system B
with
KBR-hook**

**DoLeicht H 2 legs System B
With KBR hooks up to 2000 kg per leg**

system A	working load limit in kg	band width in mm	price 1 metre	price additional metre
Item no.				
0546 1402	1400	30	Price on enquiry	Price on enquiry
0546 2102	2100	65		
0546 2802	2800	60		

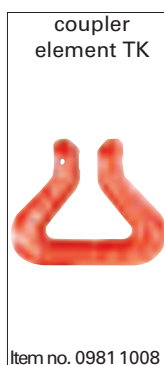
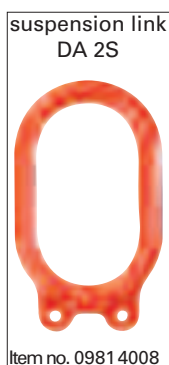
System B for two-leg suspensions up to a working load limit of 2.800 kg with choker hook KBR (see below).

Both systems allow the individual replacement of worn legs.

The lightweight alternative to chain suspensions.

Components System B

2 leg suspension up to 2.800 kg total working load limit with hooks type KBR especially useful for "choker" lifting type.



Roundsling suspensions with high tensile components 1 and 2 legs

DoLeicht R

Our roundsling suspensions with grade 80 components are produced as standard with safety eye hooks (YOS). On request (and for an extra charge) we also deliver self locking eye hooks (YOZ). In this case the last figure of the item number in your order should be "1" e.g. 0544 1011

Your advantages:

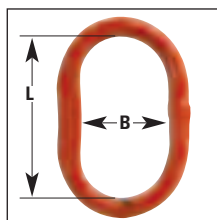
- useful combination of load-saving roundslings and high strength fittings
- protects the surface of the load
- legs of roundsling suspensions are coated with PVC abrasion protection
- lighter than chain or rope suspensions



DoLeicht roundsling suspension 1 leg With eye hook YOS or self-locking eye hook YOZ

	with hook YOS	WLL	suspension link (L x B) dimensions in mm	width of hook opening YOS in mm	width of hook opening YOZ in mm	price 1 metre	price additional metre
Item no.		in kg					
0544 1001		1000	110 x 60	27	28	Price on enquiry	Price on enquiry
0544 1501		1500	110 x 60	27	36	Price on enquiry	Price on enquiry
0544 2001		2000	110 x 60	27	36	Price on enquiry	Price on enquiry
0544 3001		3000	135 x 75	34	44	Price on enquiry	Price on enquiry
0544 4001		4000	160 x 90	42	54	Price on enquiry	Price on enquiry
0544 5001		5000	160 x 90	42	54	Price on enquiry	Price on enquiry

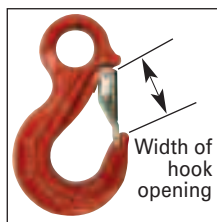
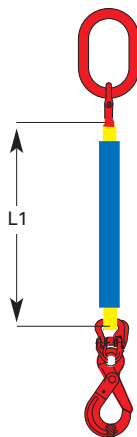
Please note down dimension L 1 (effective length) when ordering.



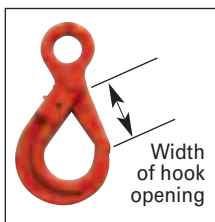
suspension link for 1 and 2 leg suspensions



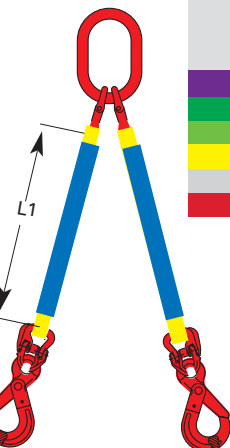
coupler element YKKD with extra large surface area



eye hook with latch YOS



self locking eye hook YOZ

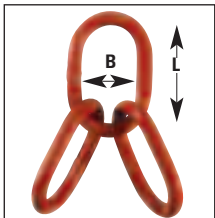


DoLeicht roundsling suspension 2 legs With eye hook YOS or self-locking eye hook YOZ

	with hook YOS	WLL	suspension link (L x B) dimensions in mm	width of hook opening YOS in mm	width of hook opening YOZ in mm	price 1 metre	price additional metre
Item no.		up to β 45° in kg					
0544 1402		1400	110 x 60	27	28	Price on enquiry	Price on enquiry
0544 2102		2100	110 x 60	27	36	Price on enquiry	Price on enquiry
0544 2802		2800	135 x 75	27	36	Price on enquiry	Price on enquiry
0544 4202		4200	160 x 90	34	44	Price on enquiry	Price on enquiry
0544 5602		5600	180 x 100	42	54	Price on enquiry	Price on enquiry
0544 7002		7000	180 x 100	42	54	Price on enquiry	Price on enquiry

Roundsling suspensions with high tensile components 3 and 4 legs

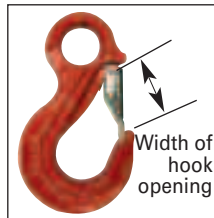
DoLeicht R



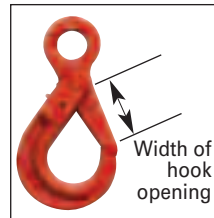
suspension set for 3-4 leg suspensions



coupler element YKKD



eye hook with latch YOS

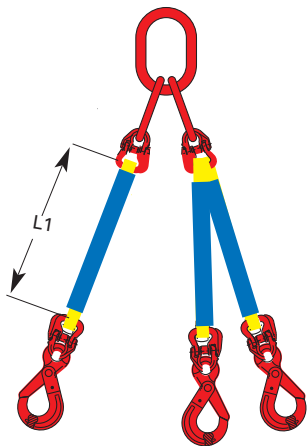


self-locking eye hook YOZ



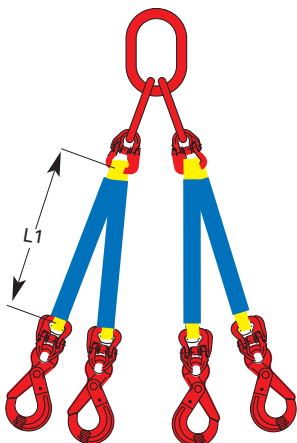
When dimensioning the lifting device please pay attention to the loss of working load limit caused by the inclination angle. Note that the inclination angle must never exceed 60°.

DoLeicht roundsling suspension 3 legs With eye hook YOS or self-locking eye hook YOZ



	with hook YOS	WLL up to β 45° in kg	suspension link (L x B) dimensions in mm	width of hook opening YOS in mm	width of hook opening YOZ in mm	price 1 metre	price additional metre
	0544 2103	2100	135 x 75	27	28	Price on enquiry	Price on enquiry
	0544 3153	3150	135 x 75	27	36		
	0544 4203	4200	160 x 90	27	36		
	0544 6303	6300	180 x 100	34	44		
	0544 8403	8400	200 x 110	42	54		
	0544 0503	10500	200 x 110	42	54	Price on enquiry	Price on enquiry

DoLeicht roundsling suspension 4 legs With eye hook YOS or self locking eye hook YOZ



	with hook YOS	WLL up to β 45° in kg	suspension link (L x B) dimensions in mm	width of hook opening YOS in mm	width of hook opening YOZ in mm	price 1 metre	price additional metre
	0544 2104	2100	135 x 75	27	28	Price on enquiry	Price on enquiry
	0544 3154	3150	135 x 75	27	36		
	0544 4204	4200	160 x 90	27	36		
	0544 6304	6300	180 x 100	34	44		
	0544 8404	8400	200 x 110	42	54		
	0544 0504	10500	200 x 110	42	54	Price on enquiry	Price on enquiry

Reverse suspension Combination of web slings, chains and round- slings

DoKehr

Your advantages:

- Save weight and cost by using textile lifting devices
- Two lifting devices in one
- Reduction claw allows lengthwise adjustment of the chains
- Easy to convert: Simply reverse!



DoKehr combines the advantages of chains, web slings and roundslings. The individual legs can simply be turned over!

For rough use. Chain in the area of loading.

For sensitive goods: Roundsling or web sling in area of loading.



fig. 1
Type RK
Roundsling / chain



fig. 2
Type HK
web sling / chain



fig. 3
Type KR
Chain / roundsling



fig. 4
Type KH
Chain / web sling

These variants are available



Self-locking
hook YOZ for
chains
WLL
up to 5000 kg
Single



Self-locking
hook YOZ for
roundslings
WLL
up to 5000 kg
Single



Choker hook
KBR for
web slings
WLL up to
2000 kg
Single



Hook KBR
(up to 2000 kg)
with web sling
in suspension link



Self-locking hook YOZ
(up to 5000 kg)
with chain in suspension link



Self-locking hook YOZ
(up to 5000 kg) with roundsling
in suspension link



For "choker" type lifting choose the appropriate area of the reverse suspensions:
For rough surfaces or angular loads use the chains. For sensitive loads use web slings or roundslings.



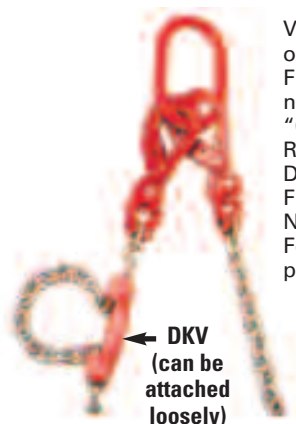
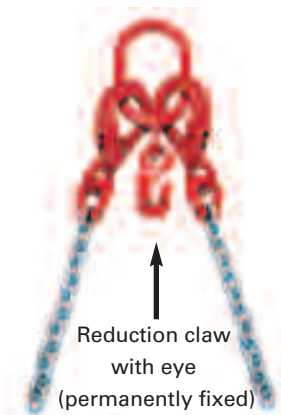
Dokehr reverse suspension 2 legs type RK / KR + HK / KH

Item no. RK/KR with 2 self locking hooks YOZ (fig. 1+3)	WLL at max. 45° in kg	nominal thickness of chains in mm	WLL roundsling in kg	Item no. HK/KH with 2 self locking hooks YOZ (fig. 2+4)	width of web sling in mm	price 1 metre effective length (L1+L2)	Price additional metre (L1+L2)
0548 1402	1400	6	1000	0547 1402	30	Price on enquiry	Price on enquiry
0548 2102	2100	7	1500	0547 2102	50		
0548 2802	2800	8	2000	0547 2802	60	Price on enquiry	Price on enquiry
0548 4202	4200	10	3000	0547 4202	90		
0548 5602	5600	13	4000	0547 5602	120	Price on enquiry	Price on enquiry
0548 7002	7000	13	5000	0547 7002	150		

Dokehr reverse suspension 4 legs type RK / KR + HK / KH

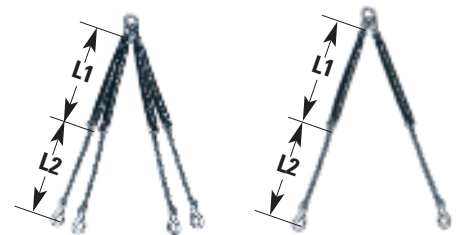
Item no. RK/KR with 2 self locking hooks YOZ (fig. 1+3)	WLL at max. 45° in kg	nominal thickness of chains in mm	WLL roundsling in kg	Item no. HK/KH with 2 self locking hooks YOZ (fig. 2+4)	width of web sling in mm	price 1 metre effective length (L1+L2)	Price additional metre (L1+L2)
0548 1404	2100	6	1000	0547 1404	30	Price on enquiry	Price on enquiry
0548 2104	3150	7	1500	0547 2104	50		
0548 2804	4200	8	2000	0547 2804	60	Price on enquiry	Price on enquiry
0548 4204	6300	10	3000	0547 4204	90		
0548 5604	8400	13	4000	0547 5604	120	Price on enquiry	Price on enquiry
0548 7004	10500	13	5000	0547 7004	150		

Suspension types KR and KH are additionally lengthwise adjustable



Variant with reduction hook with eye. First figure of Item no. is "1" instead of "0"
Reduction hook DKV: First figure of Item No. is "2"
For extra charge please contact us.

When ordering, please note down L1 (effective length of roundsling / web sling) and L2 length of chain including hook).

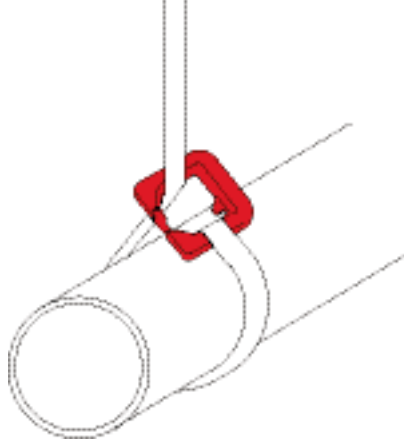


In the 4 leg variant two legs each are fixed to one suspension link.



Bundle suspensions + web sling suspensions with special vario hook

DoVario



DV 600



DoVario bundle suspension 2 layer with hook HSH one leg with suspension link

DV 600 Item no.	WLL in kg	band width in mm	price 1 metre	price additional metre
0516 5001	1000	30	Price on enquiry	Price on enquiry
0516 6001	1500	50		
0516 7001	2000	60		
0516 8001	3000	90		
0516 9001	5000	150		

DV 550



DoVario bundle suspension 2 layer with hook HSH two leg with suspension link

DV 550 Item no.	WLL in kg	band width in mm	price 1 metre	price additional metre
0516 5002	1400	30	Price on enquiry	Price on enquiry
0516 6002	2100	50		
0516 7002	2800	60		
0516 8002	4200	90		
0516 9002	7000	150		

DV 500

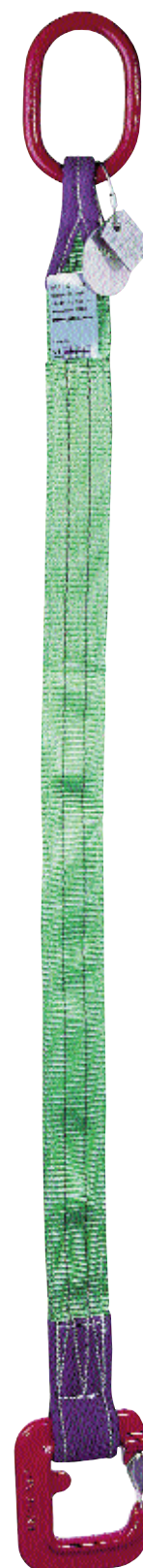


DoVario bundle suspension 2 layer with HSH hook, one leg

DV 500 Item no.	WLL in kg	band width in mm	price 1 metre	price additional metre
0516 5011	1000	30	Price on enquiry	Price on enquiry
0516 6011	1500	50		
0516 7011	2000	60		
0516 8011	3000	90		
0516 9011	5000	150		

Your advantages:

- For lifting, bundling or choking
- Wide surface area of the hook
- Hook can easily be attached to the sling
- Hook can easily slide on the sling
- Components can be re-used after inspection when the sling has reached indications for disposal

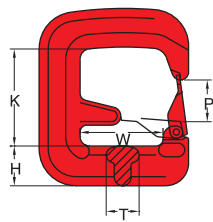


Choker suspensions + web sling suspensions with special vario hook

DoColor



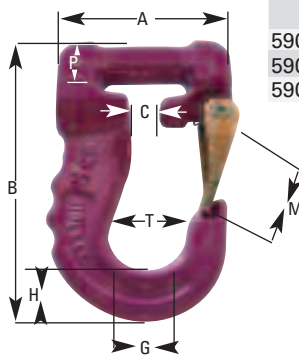
Hook HSH for "choker" type lifting connectable with web slings and roundslings



Item no	WLL in kg	K	dimensions in mm				weight in kg	price
			P	W	T	H		
0982 0610	1	79	28	45	22	26	0,7	Price on enquiry
0982 0620	2	87	34	71	25	35	1,7	
0982 0630	3	96	37	104	29	38	2,4	
0982 0650	5	154	40	185	40	50	7,2	



Hook UVH for "choker" type lifting and use with suspensions connection / enlargement of roundslings and web slings



Item no	color-code	WLL kg	A mm	B mm	C mm	G mm	H mm	P mm	T mm	weight ca. kg	Price piece/
5900 1306	purple	1	78	123	12	17	20	16	31	0,7	Price on enquiry
5900 1308	green	2	91	148	19	21	26	17	40	1,2	
5900 1310	yellow	3	113	175	21	25	32	25	50	2,2	



4, 5 and 6 t on request

Loose universal hook for the production of suspensions with web slings or roundslings. Also for connecting and extensions.

Easy handling for "choker" type lifting. The stable spring stop avoids unintentional loss of contact after lowering the load. Problem-free extension, connection, fixing of web slings and roundslings without loss of WLL. Quick, safe and technically perfect.

Without additional components you can build new suspensions within seconds. 1-, 2-, 3-, or 4 legs. Just attach the web sling to the hook, sling to the load and start the lifting procedure. Problem free extension and connecting of two roundslings or web slings - quick, safe and technically perfect.

Construction sus- pension 2 legs with hook SHK and HKH

DoColor

2-leg suspension with choker hook SHK and HKH

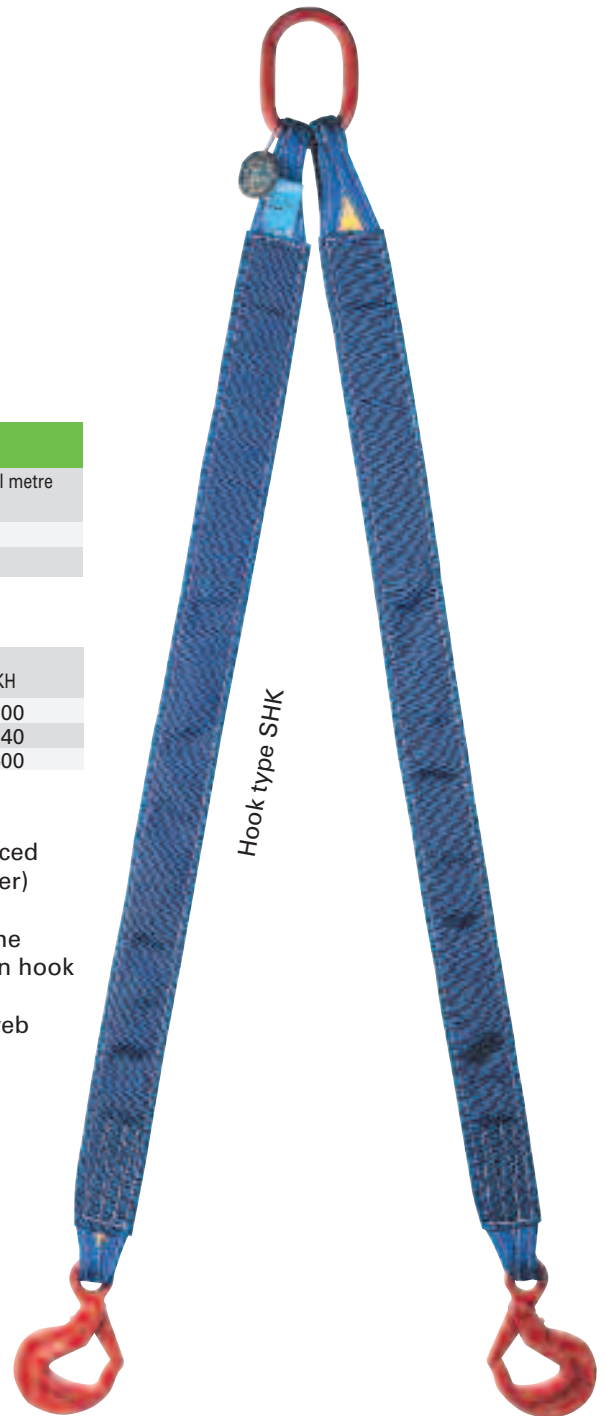
Item no.	with hook type / WLL t	bans dimensions in mm	price 1 metre	price additional metre
0519 9002	HKH / 2	60 x 7		Price on enquiry
0519 9003	SHK / 3	90 x 7		Price on enquiry

WLL in kg at inclination angle β	single "direct"		single "choker"	
	SHK	HKH	SHK	HKH
0°	6000	4000	4800	3200
0 - 45°	4200	2800	3360	2240
45 - 60°	3000	2000	2400	1600

Your advantages:

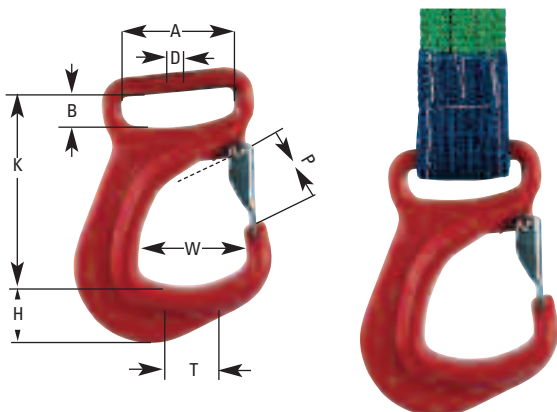
These special web sling suspensions are equipped with high strength safety hooks. They are appropriate for "choker" type as well as for "direct" lifting. The 3 t SHK-hook is additionally self locking. Both types of hook are sewn captive to the web sling and can be re-used after inspection. The sling is additionally equipped with a two side abrasion protection layer made of stable webbing. Therefore it is suitable for lifting rough-surfaced loads in an optimal way.

- Ideal for lifting of rough-surfaced loads (sewn on protection layer)
- Can also be fixed directly to the point of lifting as a suspension hook
- Hook is sewn captive to the web sling



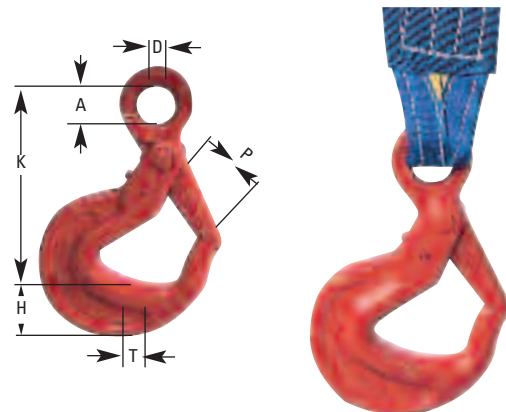
Hook HKH for use in suspensions and "choker" type lifting. 2 t working load limit

Item no.	dimensions in mm								weight kg	price
	K	P	B	A	D	W	T	H		
0982 0720	140	44	24	81	14	80	40	44	2.0	o. e.



Hook SHK self locking for use in suspensions and "choker" type lifting. 3 t working load limit

Item no.	WLL in t	dimensions in mm						weight kg	price
		K	P	A	D	T	H		
0911 8010	3,15	170	38	32	13	32	42	2,4	o. e.





Web slings, retractable

DoLyft

Reducable web sling DoLyft

For the lifting and transport of loads, again and again new, more economic, and simplifying constructions have been developed which the market has been waiting for.

DoLyft has no movable parts and is therefore wear-free. Simple and safe handling achieved by lateral threading into the middle link guarantees the correct mounting.

Adjustment support for pairwise length adjustability

Starting from the fixed eye, all web slings have length markers in the same intervals. You can take care of even intervals when fixing to traverses already. The load should in general be fixed directly to the load to avoid the lifting type "basket". Allows for transport of staircases, bannisters and facility components according to the needs of construction. Many loads have to be transported as needed for construction, not horizontal. This makes construction work easier and no support constructions are necessary. Also asymmetric parts can gently be supported at any given point in a way that keeps them hanging horizontally.

Colour marks: DoLyft web slings have pre-programmed elongation. During transport, an inclination angle of 60° should not be exceeded. As a means of control the red colour mark on the base plate of the 3-point force connector is used. The ready-to-use DoLyft web sling meets the standard DIN EN 1492-1, the 3-point force connector is constructed according to the demands of BGR 500. DoLyft web slings can quickly be replaced. To maintain all functions they should only be replaced by original

DoLyft web slings. Also because of:

- Thickness of the sling
- Pre-programmed elongation
- Length markers for use in pairs
- Terminal marks
- Eye diameter according to the pin dimensions
- working load limit marked




Sharp edge protection is also suggested for DoLyft web slings. This avoids premature wear. Order sharp edge protection or protective hoses along with web slings.

The dimensions of the web sling can be measured by the size of the transported goods (lifting type "basket"). The economic advantage lays in the reduction of the construction period.

Another field of use in every day practice: if the vertical distances are low or the machinery has to be changed often, DoLyft can be lengthened or shortened for every transportation height without influencing carrying capacities.

DoLyft is smooth and does not damage the goods.

DoLyft web slings are available for the following carrying capacities:

Lifting type	single kg	in pairs kg
	3000	6000
	2100	4200
	1500	3000



Shorten or lengthen using the 3-point-tractor and the appropriate DoLyft web sling.

DoLyft-connector

Item no.	WLL kg	price per piece
4510 0001	see chart below	o. r.

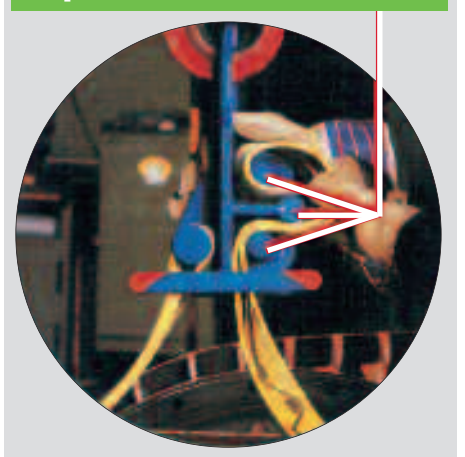
DoLyft-webbing

Item no.	WLL kg	price 1 metre	price additional metre
0535 6502	3.000	o. r.	o. r.

The DoLyft web sling exactly matches the 3-point force connector. This system has advantages especially for the transport of asymmetric loads.

- Easy lateral fixing
- Easy to adjust when unstressed
- Quick sling exchange for extra lengths

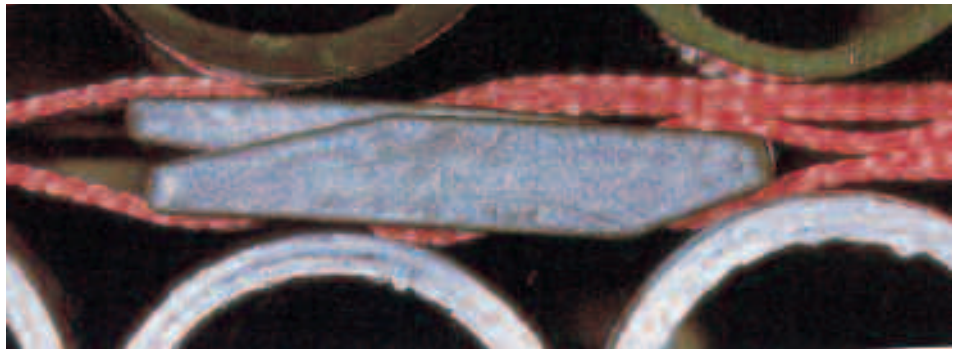
3-point force connect



Bundle strap

Web slings, retractable

DoFlach



- Reusable! No discarding necessary!
- Tried and tested (e.g. in tube manufacturing and in mining)

DoFlach bundle strap for the formation of load units made of textile woven (PES) with ultra flat belt ferrule.

Use of these bundle straps allows stacking of several bundles without causing damages (scratches or imprints).

The extra flat belt ferrules is made of galvanized steel – completely without expandable parts like pins or stirrups. There are neither sharp edges nor sharp teeth which may cause damage to the webbing. The ferrules can easily be tensioned by hand; by using a budget-priced mechanical tensioner, the pretension force can be dramatically increased. It is not necessary to use special pretension devices or pneumatic systems. No unintended opening caused by catch stirrup. For opening, the handle eye can easily be grasped. Opening can be controlled and measured even when loaded. For tensioning or re-tensioning your hands are always out of the danger zone. No danger of cuts when tensioning or lashing.

The 25 mm belt stirrup slings have an authorized traction for strapping of up to 1200 kg. The drawn and especially elongation free material saves very sensitive goods. They are available in many different colours and with your own trade mark on request. This supports the organisation of in-house transport. Continuous recycling causes no problems with waste material or disposal.

The band webbing is wear and abrasion resistant and protects surfaces. Dolezych stirrup slings can be produced in anti-static or flame-retardant.



Your advantages:

- Easy and danger-free bundling
- Can be tensioned manually
- With special ratchet tensioner, higher traction can be achieved
- Bundles are stackable without damages (scratches or imprints)

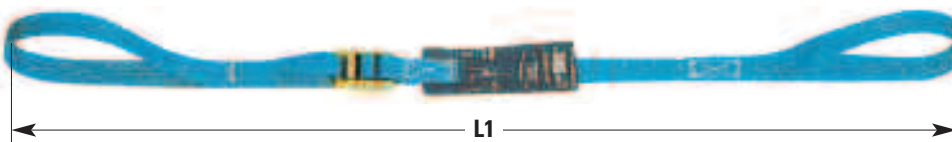
DoFlach bundle strap

Item no.	band width mm	authorized traction daN	price 1 metre	price additional metre
1625 0601	25	600	Price on enquiry	Price on enquiry
1625 0900	25	900		
1625 1200	25	1200		
1625 2000	50	2000		



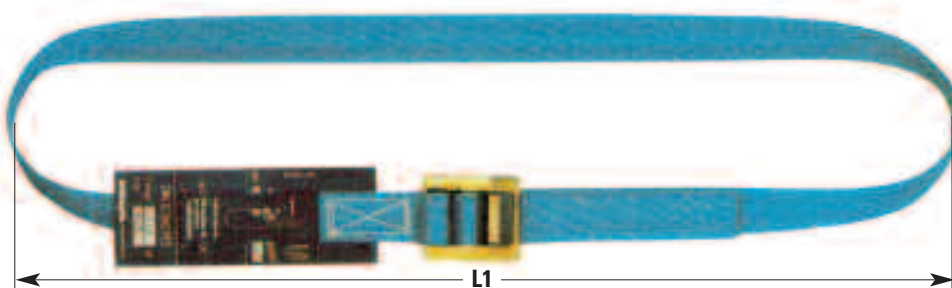
DoFlach eye slings

Item no.	WLL		length of eye thickness in mm	price 1 metre in mm	price additional metre
	band width	double			
0530 0902	125	250	25 x 2	150	Price on enquiry
0530 0905	250	500	50 x 3	200	Price on enquiry



DoFlach-web sling (ordering: 2 x L1 = circumference)

Item no.	WLL		thickness in mm	price 1 metre	price additional metre
	band width	double			
0541 0902	250	500	25 x 2		Price on enquiry
0541 0905	500	1.000	50 x 3		Price on enquiry



DoFlach eye slings

made of polyester (PES)
Bandwidth 25 or 50 mm

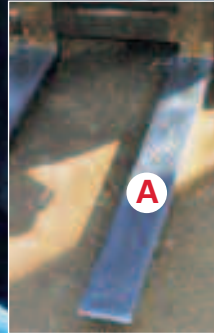
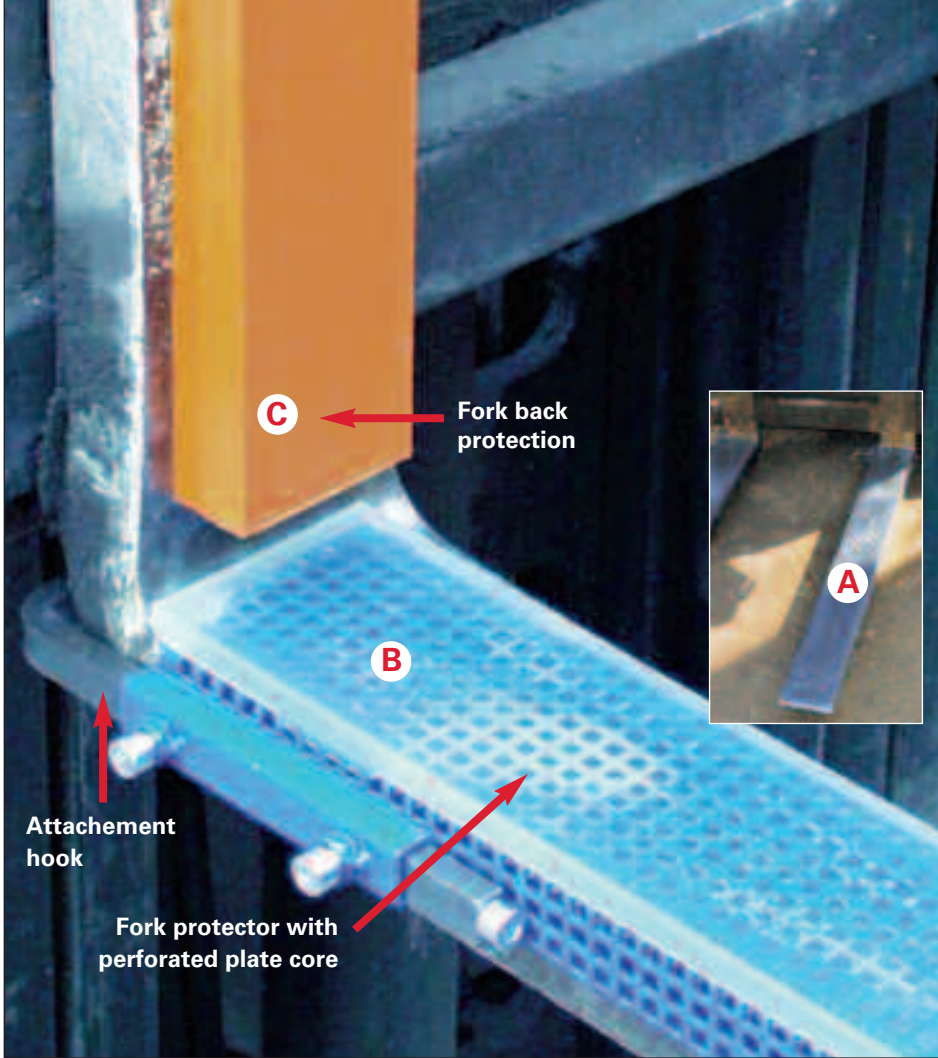
Shorter or longer – no problem with these flexible slings. All within a few seconds; the mass of the load does not matter. The strapping does not need to be opened for adjustment.

The lightweight and load-saving sling is easy to handle. At low lifting heights even asymmetrical goods can be balanced. Dolezych stirrup slings can be produced in anti-static or flame-retardant versions.

Forklift pin protectors

Dolex

Forklift pin protectors made of high quality polyurethane elastomer, degree of hardness approx. 80 Shore, elongation at tear: 450% (DIN 53504) resistance to tear propagation: 20 N/mm (DIN 53515) Abrasion: 60 mg (DIN 53516)



Fork protector with perforated plate core, 10 mm thickness of layer

width mm	price / 1.000 mm of length	price / additional 200 mm of length
80	Prices on request	Prices on request
90		
100		
110		
120		
130		
140		
150		

forkback protection / piece
fastening hook / piece

Variants

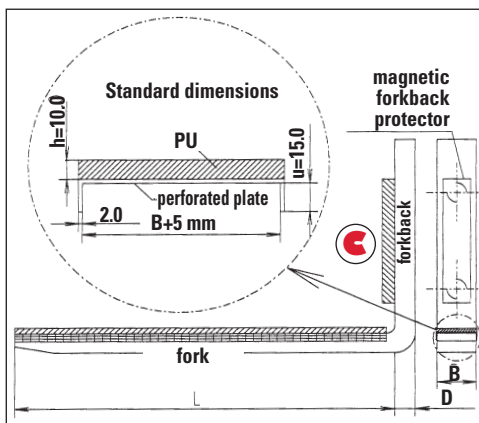
- non detachable permanent coating on upper surface 100 mm thick – the forks have to be sent to our factory (Price on enquiry)
- detachable shoe formed in U-shape, 10 mm on the upper surface, available with fastening hook to prevent slipping off the fork
- as forkback protector we suggest an impact protection made of PU-elastomer foam containing 2 round magnets (dimensions approx. 425 X 70 X 30 mm)

Advantages:

- protection of load and forks
- highly resistant to wear
- highly dampening
- noise reducing
- anti slip



Please copy coupon, fill in the dimensions needed and ask for offer.



Dolex fork protection
Item no. _____ quantity (piece) _____
Please fill in!

- fork permanent coating without perforated plate core
- fork protector with perforated plate core
- forkback protector, magnetic, without perforated plate core

Dolex fork protection
dimensions _____ Please fill in!

- Length of fork L (mm) _____
Width of fork B (mm) _____
Thickness of fork B (mm) _____
Desired thickness of coating h (standard 10 mm) _____
Desired depth of edge U Standard 15 mm _____
Fastening hook for protector _____

Sender: _____

Name/First name _____

Company/Dept. _____

Street/No. _____

ZIP/City _____

Phone/Fax _____

E-Mail _____

Heavy duty Bump-protection Bump-protection Hollow section Bump-protection

Dolex

Do-Lex-bump-protection strongly absorbing, noise-reducing, slip-reducing.

Ideal for protecting fragile parts from bumpig

- A) made of high quality polyurethane elastomer ca. 80 Shore
- B) elastomer foam
- C) structural foam



C) Bump-protection



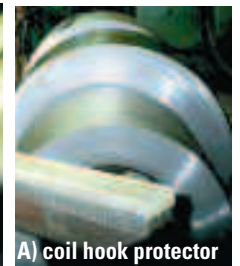
A) shock absorber



B) collision protection



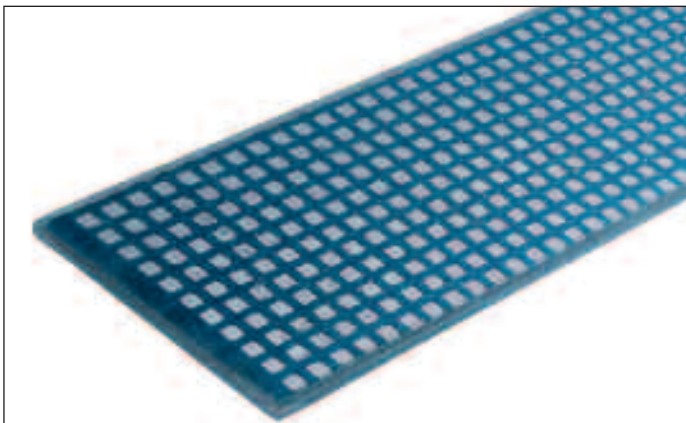
A) coil hook protector



A) coil hook protector

A) DoLex heavy load impact protection with perforated plate core

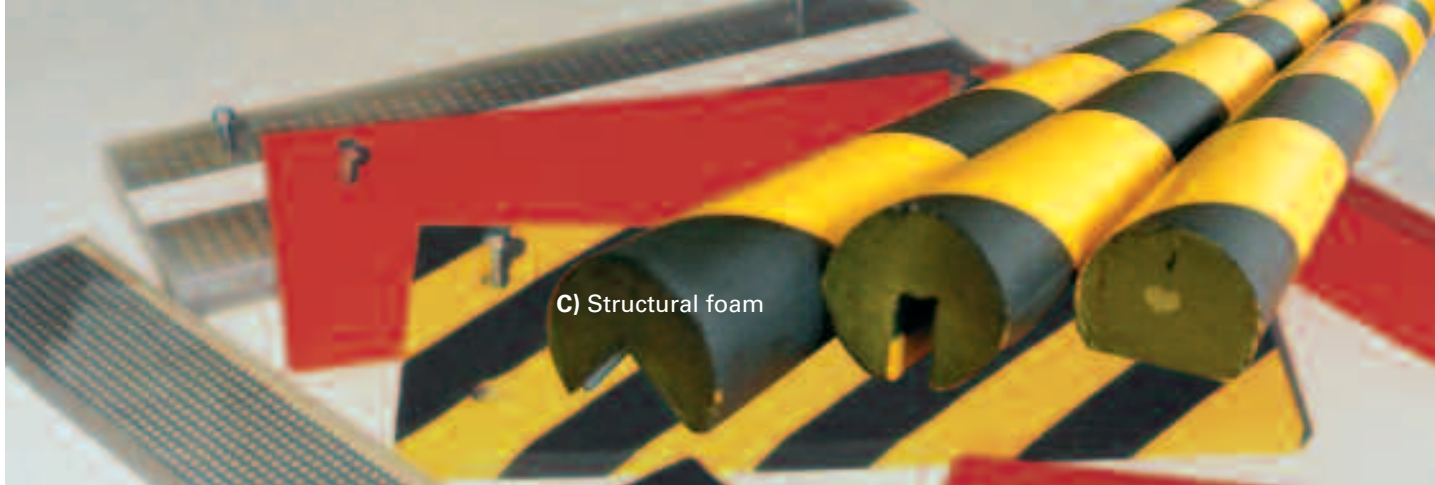
Highly resistant against abrasion and cuts
Consisting of transparent PU-elastomer in different thicknesses and widths in which a perforated plate core is embedded. It avoids excessive compression and elongation of the polyurethane. A heavy load impact protection is e.g. used for coil storage, coil hook surfaces, as shock absorber for pipes, steel rods etc.
Production length 2 m, widths up to 300 mm, thicknesses up to 50 mm.



Standard length 2m, drilling in M6 & M8 available

Item no.	width mm	thickness mm / Price each meter				
		10	15	20	25	30
5594 01..	10					
5598 02..	20					
5598 03..	30					
5598 04..	40					
5598 05..	50					
5598 06..	60					
5598 07..	70					
5598 08..	80					
5598 09..	90					
5598 10..	100					
5598 11..	110					
5598 12..	120					
5598 13..	130					
5598 14..	140					
5598 15..	150					
5598 16..	160					
5598 17...	170					
5598 18..	180					
5598 19..	190					
5598 20..	200					
5598 21..	210					
5598 22..	220					
5598 23..	230					
5598 24..	240					
5598 25..	250					
5598 26..	260					
5598 27..	270					
5598 28..	280					
5598 29..	290					
5598 30..	300					
		Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry

Example order: please add the desired thickness to the last characters of the item number for example, at 10mm width: 5594 01-30 for 30 mm thickness!



DoLex-bump-protection hollow section with integrated perforated plate round or square

- very flexible at high structure-firmness
- robust PU elastomer surface
- easy attachment through integrated perforated plate
- outstanding absorbing manner
- high buffering effect
- very variable because of modular structure

The DoLex hollow section bump-protection unites the advantages of the integrated perforated plate and elastomere foam.

The hollow section bump-protection is soft like elastomere foam, but still firm like a integrated perforated plate

B) Collision protection with PU- surface, elastomer foam and perforated plate core

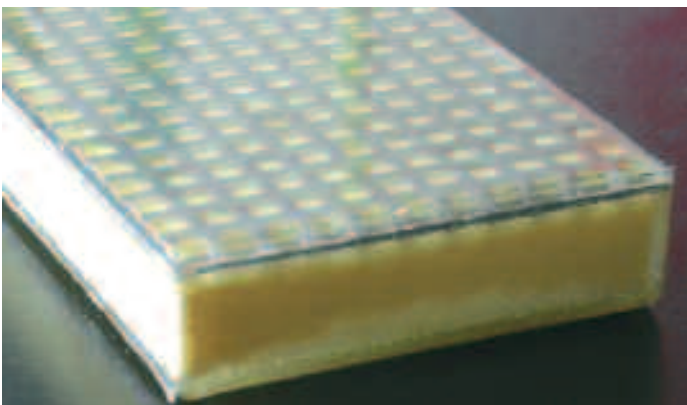
The economic alternative for heavy load collision protection. Due to its lower structural stability appropriate as collision protection for ramps. Maximum load 1,5 t.

Just as economic alternative (without perforated plate core) used for coil hook surface.

Weight of plate: max. 5 kg

Dimensions of plate: max. 600 x 300 x 30 mm

Hit protection on request.



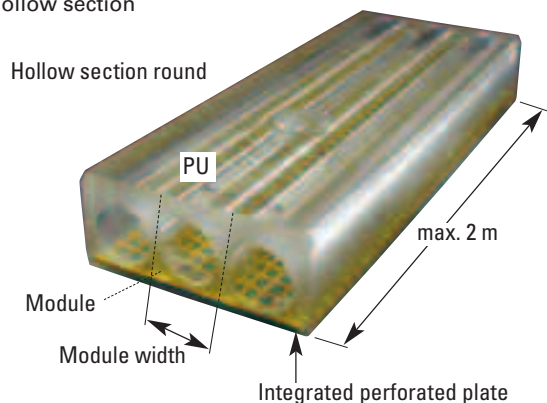
Example order: please add the desired thickness to the last characters of the item number for example: at 230mm width, 5598 23-10 for 10mm thickness.

Bump-protection

Item no.	dim. hollow section / mm	A mm	B mm	weight ca. g/m	Price/meter
5594 4001	Q 20 x 20	25	30	650	Price on enquiry
5594 4002	Q 30 x 30	35	40	900	
5594 4003	Q 40 x 40	45	50	1200	
5594 4004	R ø 20	25	30	750	Price on enquiry
5594 4005	R ø 30	35	40	1200	
5594 4006	R ø 40	45	50	1600	

Q = square hollow section

R = round hollow section



Bump-protection, standard length 2 m

Item no.	width mm	thickness mm / Price each meter	
		10	20
5598 01..	10	Price on enquiry	Price on enquiry
5598 02..	20		
5598 03..	30		
5598 04..	40		
5598 05..	50		
5598 06..	60		
5598 07..	70		
5598 08..	80		
5598 09..	90		
5598 10..	100		
5598 11..	110		
5598 12..	120		
5598 13..	130		
5598 14..	140		
5598 15..	150		
5598 16..	160		
5598 17..	170		
5598 18..	180		
5598 19..	190		
5598 20..	200		
5598 21..	210		
5598 22..	220		
5598 23..	230		
5598 24..	240		
5598 25..	250		
5598 26..	260		
5598 27..	270		
5598 28..	280		
5598 29..	290		
5598 30..	300		

Hazard warning profiles



- Self-adhesive
- Easy installation



Collision protection hazard warning profiles made of PU-structural foam

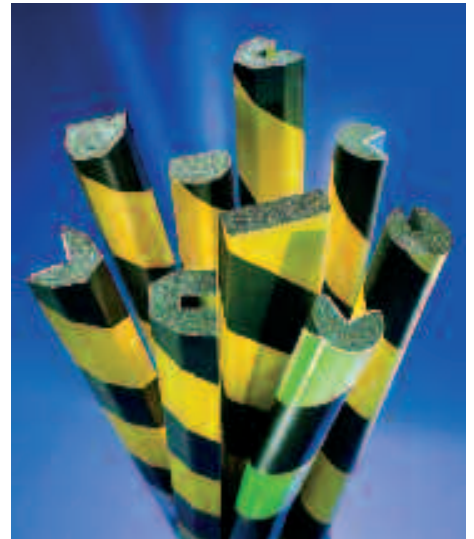
Dolezych hazard warning profiles signal dangerous spots and lower the risk efficiently. Protectors for corners and edges protect your equipment in highly frequented areas of production and storage. They avoid injuries resulting from collisions – even in case of power and light outages (luminescent variant). These high quality protector elements are made of flexible and non-ageing polyurethane foam. In UV resistant signal colours yellow / black or luminescent according to DIN 67 510. Temperature range from -40° to +90°C.

Places for use:

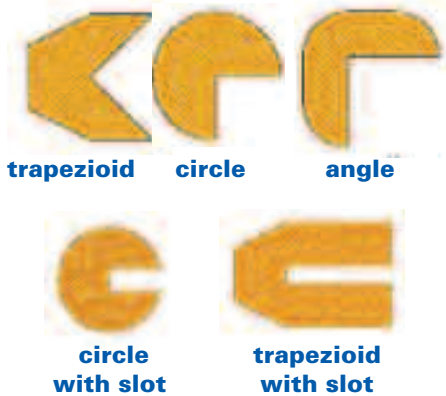
- in- and outside
- on machines, vehicles, movable equipment, on walls, main traverses and connecting passages
- in areas of production, storage and dispatch and in-house transport

Easy to install:

The self-adhesive elements stick safely and permanently to smooth, cleaned, dust- and fat-free surfaces, corners and edges. Profile protection elements are simply mounted on the profiles you want to protect. For use under extreme stress they have to be glued on additionally. Length of standard element: 1000 mm.

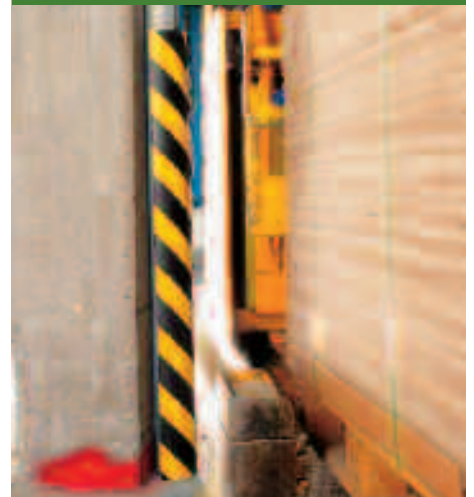


Edge / profile protection



Price on enquiry!

Pipe protector



Surface protection



Price on enquiry!



- type 40 for 30-50 mm tube diameter
- type 60 for 50-70 mm tube diameter
- type 85 for 70-100 mm tube diameter

Price on enquiry!

Load securing



Lashing straps

Lashing chains

Lashing ropes

Lashing points

Anti-slip mats

Internal load securing

Load securing-nets

Load securing: responsibilities, legal basics

DoZurr

Why load securing?

Loads must be stowed so that they cannot move under "normal" road and traffic conditions neither partly nor in full, nor fall off or cause the vehicle to tilt.

If a vehicle is operated with insufficiently secured load or non-secured loads, the load will always slip or fall when the securing and retaining forces are smaller than the respective acceleration when starting, deceleration force when braking, centrifugal force in corners or the vertical force in case of potholes.

As a general rule, any load must be secured against the above forces.

Legal basics for load securing on trucks

What now?

1. Responsible Persons and their areas of responsibility



1.1 Truck Driver

The driver is investigated as the first person responsible after an accident caused by a load falling off or if a vehicle is stopped in traffic checks with insufficiently secured loads without having caused an accident. His obligations regarding load securing are laid out in general terms in Sections 22 and 23 StVO (German Highway Code) as amended in January 2006.

It states: "The load, including all sys-

tems for load securing and loading devices, must be stored and secured so that they cannot slip, fall over, roll around, fall down or cause preventable noise in the event of full braking or sudden dodging. State of the art applicable regulations must be observed."

These regulations also explicitly refer to the recognized rules of load securing. Proper loading and securing of the load requires observing the rules of freight forwarding and driving as recognised in practical applications. These are, in particular, DIN and EN norms as well as VDI directives, currently VDI Directive 2700 "Load securing on road vehicles".

Obligations of the driver (lorry/truck drivers) include:

- Informing the loading staff in regard to the load distribution (safety)
- Checking the load securing (transport safety) and load distribution before setting off
- Adapting the driving to the load. "The driver must adapt the style of driving so that he control the vehicle. In particular, he must also take into account the road, traffic, view and weather conditions, the driving properties of the vehicle and the influences from the load." (BGV D 29)
- Checking and improving, where applicable, load securing during transport.

The driver must in any case also check the securing of the load in accordance with Section 23 StVO if another person has loaded the vehicle. If necessary, he has to refuse to drive the vehicle in accordance with Section 23 (1) StVO and, in any case, contact his employer first. While driving, it is the driver's responsibility to avoid accidents; this includes accidents caused by insufficiently secured loads. Of course, the driver must adapt his driving to the condition of his vehicle being loaded in a certain way. He must be clear about the dynamic forces which influence the vehicle due to the load distribution. Thus, a secured load with a high centre of gravity, such as paper rolls, has a



Flat steel in the windscreen

different effect on the driving properties of the vehicle than a secured load with a low centre of gravity, such as metal sheets, has. Any driver taking over a loaded vehicle from another driver is equally responsible.

Furthermore, the Accident Prevention Regulations (UVV) of the various professional associations, such as the professional association for keeping vehicles (UVV "Fahrzeuge", VBG 12) governs safe loading and unloading (Section 37 (1), (3), (4)).

1.2 Vehicle owner, company, freight forwarder, carrier

These persons can be active in commercial freight traffic as well as in all other sectors, such as construction, home improvement, commercial trade, transports on their own account, etc. That means:

Load securing is an obligation for anybody participating in traffic.

The responsibility of the vehicle owner has its legal basis in Sections 30 (1) and 31 (2) StVZO (Road Traffic Licensing Regulations). Any breaches are in contradiction to Section 69 a para. 5 no. 3 StVZO/ Section 24 StVG (Penal Law).

Obligations of the vehicle owner:

- Secure loading and load securing (HGB 412 [German Commercial Code])
- Provision of a suitable vehicle (e.g. VDI Directive 2700)
- Training and ongoing monitoring of the drivers, fleet managers and of all employees directly or indirectly involved in using the vehicles in regard to the compliance with the safety of the fleet and compliance with the rules for safe loading
- Compliance with UVV "Fahrzeuge" Section 22 (1) (VBG 12) or other applicable UVV on the properties of vehicle structures, structure parts, installations and tools for load securing
- Maintenance of safety of the vehicles (e.g. maximum weights, load distribution)

1.3 Shipper, sender, loading staff

From the previous provisions of the StVO and StVZO it cannot be deducted who is obligated to load. This is governed by civil law or in agreements and transport conditions. As laid out in Sections 1.1 and 1.2, the driver and owner are obligated to check and ensure the safe condition of the loaded vehicle and do commission any improvements required or, if necessary, reject the operation of truck or train and adjust the driving to the specifications of the load. The responsibility for loading is set out in the German Commercial Code. Since 1 July 1998, the Act on the Revision of the Freight, Forwarding and Storage Law (Transportrechtsreformgesetz-TRG), German Commercial Code (HGB) has been in force. In the HGB Section 411 the sender is obligated to provide proper packaging and labelling.

German Commercial Code Section 412 (1) – loading and unloading:

“In as much as nothing else ensues from the circumstances or common usage, the sender shall securely load, store, fasten and unload the goods. The freight forwarder must ensure secure loading.”

This means that the sender is generally responsible for carrying out load securing, but there is no longer a mandatory regulation regarding the carrying out of a secure loading (carrying out load securing) as there was before July 1, 1998. These circumstances or common usage cannot only be caused by technical installations, but also by individual agreements (agreements between the sender and forwarder). In individual agreements, the sender is able to obligate the company to carry out the load securing, as the shipper has the stronger market position.

As a rule, however, Section 412 (1) HGB in conjunction with Section 22 (1) StVO forms the basis of the sender's load securing obligation.

Important details:

It is widely assumed that the loading obligation in accordance with the HGB is legally endangered as the professional association does not grant the staff of the sender any insurance protection if they enter the lorry when loading or unloading the goods. However, persons loading or unloading vehicles of freight haulage companies are always insured against accidents. It is irrelevant here whether the company or its customer is obligated to load.

The sender is obligated to put the load in a transportable condition.

This ensues indirectly from HGB Section 411 and is always required by law. New paint on system components, for instance, must be dry, as otherwise the friction coefficient for proper load securing is too low.

If not agreed otherwise (see above), the sender is responsible for the safe loading. This does not release the driver or owner from the public obligation towards other traffic participants, to check the safeguarding before transport, have it improved, where necessary, and to check it during transport. As the owner is always responsible for the safe loading (compliance with the maximum carrying capacity, axis load, top dimensions of the vehicle and load) in accordance with StVZO and StVO. For instance, he must provide instructions where the load is to be placed on the load surface in order to prevent excess axis load.

In matters of the permissible load, not only the owner and the driving staff, but also the sender and his managing employees, shipping managers and loading managers or similar persons authorised to instruct the driver can incur a penalty (e.g. by stating the weight incorrectly).

Just as the owner and the driver, the sender is also liable for any mistakes made by his staff in regard to selection and organisational faults and errors. By training the staff, appropriate organisation, and clear instructions, accidents can be prevented. This prevents any accusations of negligence or

gross negligence with their severe legal consequences after an accident.

Always ensure through appropriate training measures that all persons involved in load securing are well trained.

Several times a year, Dolezych organises the famous “Dortmund seminars” for anybody responsible for load securing. Dolezych also carries out seminars on your premises: Please feel free to contact us.

BQH load securing seminars
Tel. +49 231/82 75 98

Load securing: Products

DoZurr



1. What products are available for load securing?

Dolezych offers a broad range of products: lashing straps, lashing chains, lashing ropes and lashing nets with all accessories, so your load reaches its destination safely.

1.1 Lashing straps

Flexible lashing straps made from polyester fabric according to DIN EN 12195-2 and VDI 2700ff are very popular, because they are easy to use. Lashing straps make transport and material flow cost-effective and are recommended for load securing, because they resist high drag, are lightweight, protect the surface, and have a long durability.



With lashing straps, loads can be strapped, kept together and secured on transport vehicles. They are rot-resistant, rust-free, hardly absorb humidity and are therefore extremely firm as well as protected against abrasion due to a special impregnation. Due to the relatively low weight, they can be fitted quickly and easily.

Lashing belts are also used in internal transportation.

The following safety regulations must be observed when using lashing straps (as well as for chains and wire ropes):

VDI 2700 Sheet ff 'Load securing on road vehicles' and

DIN EN 12195 'Load securing tools on road vehicles - safety'

Part 1 Calculating the lashing forces

Part 2 Lashing straps

Part 3 Lashing chains

Part 4 Lashing wire ropes

Dolezych participated in drafting the DIN EN 12195-2 Europe norm which was released in February 2001 and is the responsible German delegate with the new European regulatory body.

This experience guarantees products which are always up-to-date.

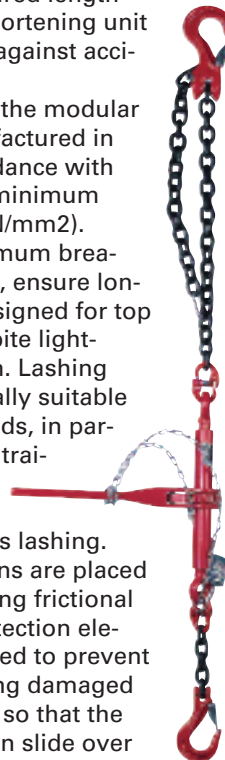
1.2 Lashing chains

Lashing chains in accordance with DIN EN 12195-3 and VDI 2700ff are perfect for diagonal lashing of heavy loads. To this end, short-element chains are used (partition = 3 x chain Ø). Only these ensure perfect chain bracing for edge usage. Chains with long elements would deform here. With shortening elements, the desired length can be set. The shortening unit must have a lock against accidental opening.

Lashing chains in the modular system are manufactured in quality 8 in accordance with DIN EN 12195-3 (minimum break stress 800 N/mm²).

They have a minimum breaking strain of 20%, ensure longevity and are designed for top performance despite lightweight production. Lashing chains are especially suitable for very heavy loads, in particular on flat bed trailers and for the lashing types of diagonal and cross lashing.

If the lashing chains are placed over the load during frictional lashing, edge protection elements must be used to prevent the load from being damaged by the chains and so that the chain elements can slide over the edges. If the edge is made so that the chain cannot slide over it, direct lashing should be preferred.



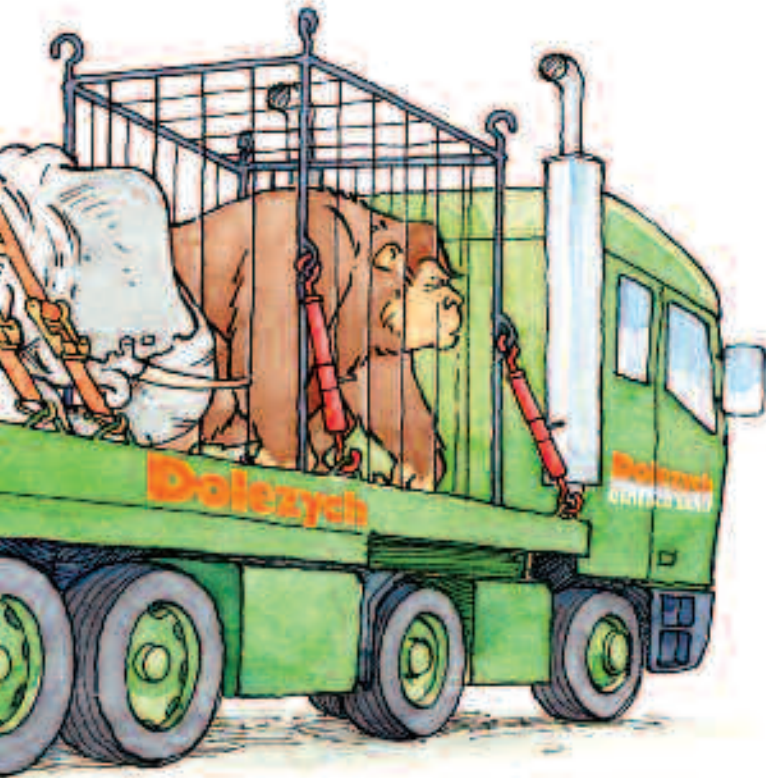
With load chain tensioners and ratchet load tensioner jacks highly stable chains of quality 8 or 10 can be operated perfectly well.

1.3 Lashing wire ropes

Lashing wire ropes manufactured in accordance with DIN EN 12195-4 and VDI 2700ff are another alternative for perfect load securing. Lashing ropes are pliant and can be very well passed around loads. They are recommended for compressible goods (such as ferro-concrete mats), because there is enough winding capacity on the hoist. Lashing wire ropes are suitable for all lashing types (frictional lashing, diagonal lashing, cross lashing) and are easily adjusted in connection with



End fitting variants for lashing wire ropes



spanner nuts and chain hoists. They are popular when vehicles are fitted with hoisting winches. Always ensure the required edge protection here, too.

2. What forces do affect the load during transport?

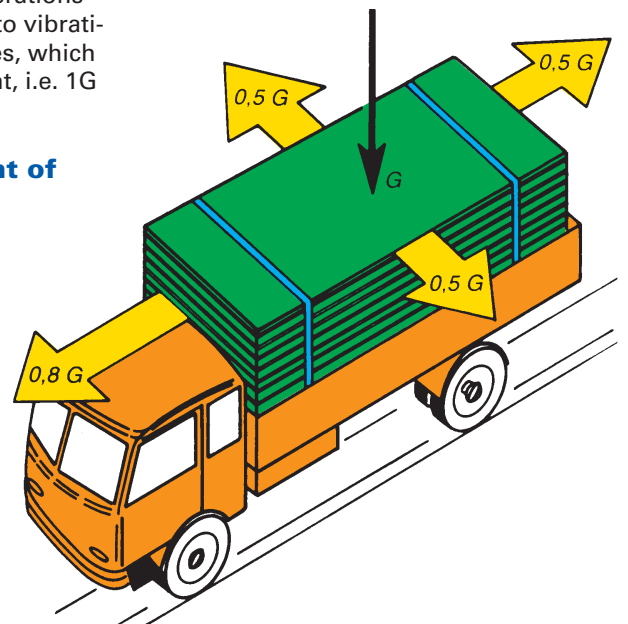
2.1 Weight

- In longitudinal direction forwards (from braking) 0.8 times the weight of the load takes effect (e.g. with a 10-t load, 8 t).
- In cross direction (in corners) 0.5 times the weight of the load takes effect (with a 10-t load, 5 t). For goods at risk of tilting, 0.7 times the weight applies.
- In longitudinal direction backwards (when starting), 0.5 times the weight of the load takes effect (5 t with a load of 10 t).

- In vertical direction accelerations occur for short periods due to vibrations and knocks, e.g. potholes, which can correspond to the weight, i.e. 1G (example: 10 t).

2.2 Friction, coefficient of friction μ

The friction factor plays an important role in load securing. Frictions take effect between the goods and load surface. It is physically expressed by the μ coefficient of friction. But how must this value, which is stated in the table on page 90, can be taken into account for load securing?



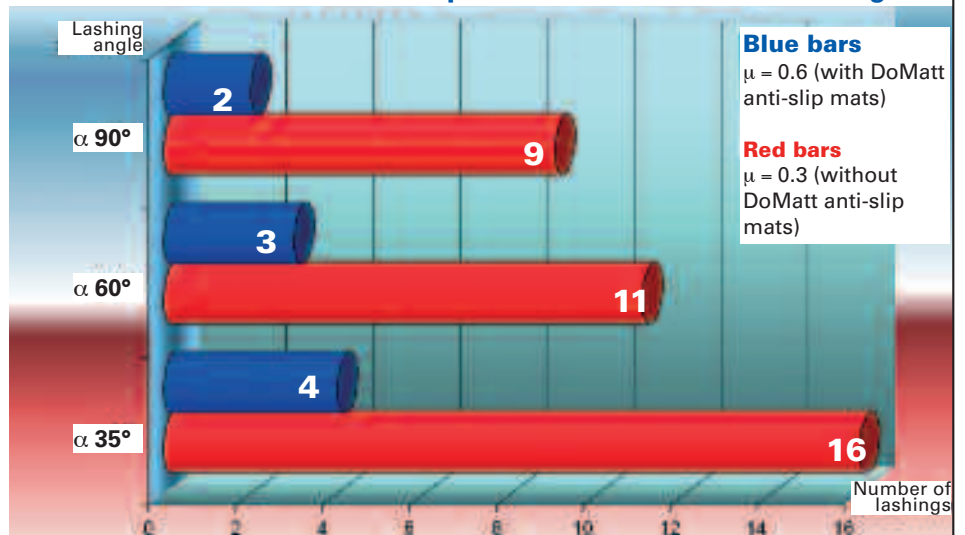
What influence does friction have?

The chart to the right shows by example of **frictional lashing** how great the influence of friction is on the number of lashing devices required, for instance.

Tip: The smaller the friction, the more lashing straps are required. We recommend using DoMatt anti-slip mats to increase the skid coefficient of friction.

During **diagonal lashing** the friction affects the respective LC (lashing capacity). The following applies: The greater the friction, the smaller the required LC (see also diagonal lashing table on page 93).

Influence of DoMatt on the required number of frictional lashings



Load weight $G = 6$ t, procedure: frictional lashing with DoMulti long lever ratchets, calculation in accordance with DIN EN 12195-1

Load securing Frictional lashing in accordance with the Dolezych-Simple- Method®

DoZurr

Example: A coefficient of friction of $\mu=0.3$ means that a force of 300 kg is necessary to move a load of 1000 kg on the load surface. At a braking rate of 1G only 700 kg, which are not secured by friction, therefore need to be secured by lashing devices. When in doubt, the user should set the coefficient of friction lower and thus ensure the required safety with the stronger lashing systems.

Note: Exclusive securing of loads through friction is not possible due to the dynamic utilisation during transport.

Coefficients of kinetic friction

μ	dry	wet	greasy
Wood/Wood	0,20-0,50	0,20-0,25	0,05-0,15
Metal/Wood	0,20-0,50	0,20-0,25	0,02-0,10
Metal/Metal	0,10-0,25	0,10-0,20	0,01-0,10
Concrete/Wood	0,30-0,60	0,30-0,50	0,10-0,20

Authority: Döbel

shortly after departure), as there is a danger that the lashing devices may become loose due to the load moving. The easiest method of checking the pre-tension force is to use a pre-tension force indicator, e.g. DoMess3. Here, one glance is sufficient to verify that the load is firmly lashed.

3. Methods of securing loads

The most common variants of securing are:

- Frictional lashing
- Diagonal lashing
- Cross lashing
- Blocking, e.g. with wedges, fixture wood often in combination with nails (observe the provisions of VDI Directive 2700)
- Form fitting or blocking. For instance, by attaching the load to the front and side walls or lashing the lorry
- Fitting the load with the help of clamping bars, skids, coil moulds, etc.
- Combination of the above methods

3.1 Frictional lashing method according to the Dolezych-Simple-Method®

With the frictional lashing rim-pull method, the load to be secured is spanned with lashing systems, pressed on the load surface and then secured towards all sides.

Note: The lashing devices must be fitted on both sides of the load surface at suitable fitting points (e.g. lashing points in accordance with DIN EN 12640). Strapping the load alone is not sufficient load securing. A connection between the load and the load surface must always be established.

To prevent the load from slipping, the pressing force between the load and the load surface, and therefore the friction is increased by pre-tension forces. The pre-tension force (S_{TF}) should be the same at all excess tensions. In accordance with VDI and DIN EN 12195-1 lashing devices must not be pretensioned with more than 50% of the maximum lashing capacity (LC). Dynamic forces occurring during the transport can otherwise overload the belts.

Note: From time to time the pre-tension must be checked (in particular

$$F_T > \frac{(C_{x,y} - \mu_D \cdot C_z) m \cdot g}{n \cdot k \cdot \mu_D \cdot \sin \alpha}$$

Calculation formula in accordance with DIN EN 12195-1. Establishing the required pre-tension force F_T for frictional lashing.

Rather complicated, isn't it? We know an easier way!

In cooperation with the University of Bremerhaven, Dolezych has developed the Simple-Method®. With only very few influencing factors, the correct number and dimensions of the load securing means is represented in concise tables (see frictional lashing simple method table page 91 and Diagonal lashing simple method table page 93). The tables are based on the calculation bases of DIN EN 12195-1. They are tried and tested, and are constantly updated by our engineers for the selection of suitable lashing devices making it easier all the time. This is what practically minded people want.

The frictional lashing table on the following page is very easy to read.

Deciding factors for the number of lashing devices (yellow fields) are the coefficient of friction μ (green fields), the pre-tension force (brown fields), the lashing angles (blue fields) and the loading weight (grey fields).

The table is based on the $\mu = 0.1 - 0.6$ coefficients of friction. In order to guarantee a μ value of 0.6, oily, greasy, frozen or enormously soiled loading surfaces and loads must be prevented by all means (see Sliding coefficient of friction table). The coefficient of friction $\mu = 0.6$ can only be achieved with a tested DoMatt anti-slip mats. The pre-tension force (S_{TF}) must not exceed 50% of the permissible drag of the lashing belt (LC). Therefore, when applying 1000 daN of pre-tension force (S_{TF}), a lashing strap with a permissible drag (LC) of at least 2000 daN in direct drag or 4000 daN in the strapping must be used (e.g. DoZurr 4000). For lashing angles (see 3.1.2) between 35°, 45°, 60°, 75° and 90° the next lowest lashing angle from the table must always be used. Vertical angles below 35° are not economical and are therefore not to be taken into account.

To ensure the pre-tension during frictional lashing on both sides of the load, we recommend edge protection slides which provide even distribution of force in the lashing devices and also protect against sharp edges. With the mobile DoMess3, you can quickly establish the pre-tension on both sides of the lashing.

The question how many lashing straps are required to secure a load through frictional lashing is quickly answered. How? With out Dolezych-Simple-Method®, the Trucker's Disc or the Do.L.O.R.E.S calculation software.

The calculation basics of correct load securing are based on the calculation formula of VDI 2702 or DIN EN 12195-1. With calculator and measurements on the load, the correct load securing can be calculated with the formulas below:

Dolezych-Simple-Method[®] frictional lashing table

The amount of lashing devices required is calculated in accordance with DIN EN 12195-1. The pre-tension S_{TF} is 50% of the side opposite the lashing devices. All table values which are not full integer values were rounded up. At least 2 excess tensions are required for a free-standing, homogenous load. The calculated values refer to loads which are not at risk of tilting.

Table for frictional lashing in accordance with the Dolezych-Simple-Method[®]

DoZurr

carrying capacity in t		1					2					3					4				
Angle ° α		35	45	60	75	90	35	45	60	75	90	35	45	60	75	90	35	45	60	75	90
Coefficient of friction μ																					
pre-tension S_{TF} 250 daN	0,1	33	27	22	20	19	66	53	44	39	38										
	0,2	14	12	10	9	8	28	23	19	17	16	42	34	28	25	24	56	46	37	34	32
	0,3	8	7	6	5	5	16	13	11	10	9	24	19	16	14	14	31	26	21	19	18
	0,4	5	4	4	3	3	10	8	7	6	6	14	12	10	9	8	19	16	13	12	11
	0,5	3	3	2	2	2	6	5	4	4	4	9	7	6	5	5	12	10	8	7	7
	0,6	2	2	2	2	2	4	3	3	2	2	5	4	4	3	3	7	6	5	4	4
pre-tension S_{TF} 500 daN	0,1	17	14	11	10	10	33	27	22	20	19	49	40	33	29	28	66	53	44	39	38
	0,2	7	6	5	5	4	14	12	10	9	8	21	17	14	13	12	28	23	19	17	16
	0,3	4	4	3	3	3	8	7	6	5	5	12	10	8	7	7	16	13	11	10	9
	0,4	3	2	2	2	2	5	4	4	3	3	7	6	5	5	4	10	8	7	6	6
	0,5	2	2	2	2	2	3	3	2	2	2	5	4	3	3	3	6	5	4	4	4
	0,6	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	4	3	3	2	2
pre-tension S_{TF} 750 daN	0,1	11	9	8	7	7	22	18	15	13	13	33	27	22	20	19	44	36	29	26	25
	0,2	5	4	4	3	3	10	8	7	6	6	14	12	10	9	8	19	16	13	12	11
	0,3	3	3	2	2	2	6	5	4	4	3	8	7	6	5	5	11	9	7	7	6
	0,4	2	2	2	2	2	4	3	3	2	2	5	4	4	3	3	7	6	5	4	4
	0,5	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2	4	4	3	3	3
	0,6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2
pre-tension S_{TF} 1000 daN	0,1	9	7	6	5	5	17	14	11	10	10	25	20	17	15	14	33	27	22	20	19
	0,2	4	3	3	3	2	7	6	5	5	4	11	9	7	7	6	14	12	10	9	8
	0,3	2	2	2	2	2	4	4	3	3	3	6	5	4	4	4	8	7	6	5	5
	0,4	2	2	2	2	2	3	2	2	2	2	4	3	3	3	2	5	4	4	3	3
	0,5	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	3	3	2	2	2
	0,6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
carrying capacity in t		6					8					12					16				
Angle ° α		35	45	60	75	90	35	45	60	75	90	35	45	60	75	90	35	45	60	75	90
Coefficient of friction μ																					
pre-tension S_{TF} 250 daN	0,1																				
	0,2	84	68	56	50	48															
	0,3	47	38	31	28	27	62	51	42	37	36										
	0,4	28	23	19	17	16	38	31	25	23	22	56	46	37	34	32	75	61	50	45	43
	0,5	17	14	12	10	10	23	19	15	14	13	34	28	23	20	20	45	37	30	27	26
	0,6	10	8	7	6	6	13	11	9	8	8	19	16	13	12	11	25	21	17	15	15
pre-tension S_{TF} 500 daN	0,1																				
	0,2	42	34	28	25	24	56	46	37	34	32										
	0,3	24	19	16	14	14	31	26	21	19	18	47	38	31	28	27	62	51	42	37	36
	0,4	14	12	10	9	8	19	16	13	12	11	28	23	19	17	16	38	31	25	23	22
	0,5	9	7	6	5	5	12	10	8	7	7	17	14	12	10	10	23	19	15	14	13
	0,6	5	4	4	3	3	7	6	5	4	4	10	8	7	6	6	13	11	9	8	8
pre-tension S_{TF} 750 daN	0,1	66	53	44	39	38															
	0,2	28	23	19	17	16	38	31	25	23	22	56	46	37	34	32	75	61	50	45	43
	0,3	16	13	11	10	9	21	17	14	13	12	31	26	21	19	18	42	34	28	25	24
	0,4	10	8	7	6	6	13	11	9	8	8	19	16	13	12	11	25	21	17	15	15
	0,5	6	5	4	4	4	8	7	5	5	5	12	10	8	7	7	15	13	10	9	9
	0,6	4	3	3	2	2	5	4	3	3	3	7	6	5	4	4	9	7	6	5	5
pre-tension S_{TF} 1000 daN	0,1	49	40	33	29	28	66	53	44	39	38										
	0,2	21	17	14	13	12	28	23	19	17	16	42	34	28	25	24	56	46	37	34	32
	0,3	12	10	8	7	7	16	13	11	10	9	24	19	16	14	14	31	26	21	19	18
	0,4	7	6	5	5	4	10	8	7	6	6	14	12	10	9	8	19	16	13	12	11
	0,5	5	4	3	3	3	6	5	4	4	4	9	7	6	5	5	12	10	8	7	7
	0,6	3	2	2	2	2	4	3	3	2	2	5	4	4	3	3	7	6	5	4	4

Load securing methods Frictional lashing and diagonal lashing according to the Dolezych-Simple-Method[®]



3.1.1 Pre-tension force S_{TF}

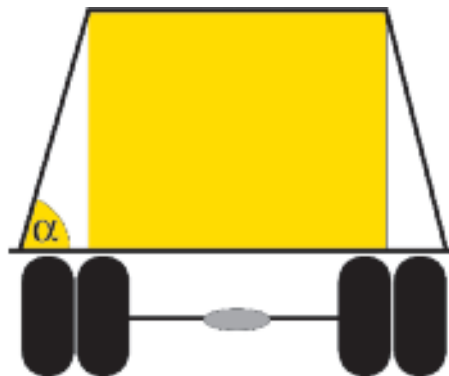
Various ratchet types are used for load securing. Apart from ergonomic and functional differences, the achievable pre-tension force is the main distinguishing property. With a standard ratchet, a pre-tension force of 250 - 350 daN can be achieved. With the long levered hoist ratchets (DoMulti, Do2Step, DoVario) you can achieve a pre-tension force of 500 to 1000 daN. The amount of the introduced pre-tension force determines the number of frictional lashings required. Your benefit lies thus in the fact that, when using long levered hoist ratchets for frictional lashing, up to 70% less lashing devices are required. An unbeatable argument. When establishing the pre-tension force, our DoMess pre-tension force indicators are of good assistance.

3.1.2 Lashing angle α

The lashing angle α is between the loading surface and the lashing devices; it should be at least 35°. For frictional lashing, the number of excess tension mainly depends on this angle. The greater the angle α , the less excess tension is required for your load. You can achieve the best results with an angle $\alpha = 90^\circ$. If the angle is not known, the most unfavourable condition (angle $\alpha = 35^\circ$) should be assumed. Angles below 35° are not economical and should be avoided. When establishing the angles, our protractor can help - just read off its markings and you have all the relevant details.

3.1.3 Coefficient of friction μ (also coefficient of kinetic friction)

Whether a load (e.g. when braking) slips or not, also depends on the consistency of the contact surfaces between the load and the load surface. In load securing this is known as the coefficient of kinetic friction μ . For many material pairs, there are tables for the coefficient of kinetic friction based on tests (see Coefficient of kinetic friction table p. 90 or DIN EN 12915-1). With DoMatt anti-slip mats, a coefficient of kinetic friction of $\mu = 0.6$ can be achieved.



3.2 The diagonal lashing method in accordance with the Dolezych-Simple-Method[®]

With the help of the blocking method of diagonal lashing, very heavy loads can be lashed and secured. Depending on the consistency of the load, the diagonal lashing can be designed in very different variants. The required securing forces are provided during transportation thanks to load packing. As the lashing devices directly absorb the forces resulting from the movement of the vehicle (acceleration, deceleration

and centrifugal forces), the permissible lashing capacity in the direct load is the basis for the calculation.

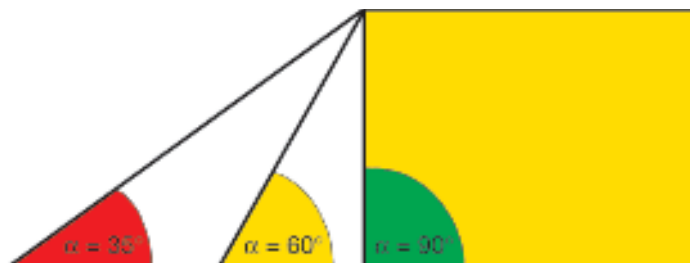
For diagonal lashing, the lashing devices are fitted onto the lashing points on the lorry and the end points of the load. Because the permissible load capacity is not to be reduced through high pre-tension forces, the belts are tightened by hand only for diagonal lashing contrary to frictional lashing (at max. 10% of the LC).

3.2.1 α and β : lashing angles

For diagonal lashing, the permissible load capacity of the lashing devices depends on the size of the lashing angles α and β . The lashing angle α is the vertical angle (see variants 1-3 on page 93) between the load surface and lashing devices; it should range from 20° to 65°. The horizontal angle β is the angle between the vehicle longitudinal direction and the lashing devices, and should range from 6° to 55°. In the Simple-Method diagonal lashing on page 93, the angle areas are already taken into account.

Please just read off the permissible load capacities required for the lashing devices for your load weight.

Often, however, more favourable values can be calculated for the securing forces if the two angles α and β are measured with the Dolezych protractor. The result is either smaller sized lashing devices or, with the same lashing devices, securing higher load weights.



The Dolezych-Simple-Method® diagonal lashing table was created for the angle ranges $\alpha=20^\circ$ to 65° and $\beta=6^\circ$ to 55° . For the most unfavourable angle pairs, the LC securing force required was calculated. Please note that the fitting points of the load and load surface also have the respective strength. The LC values in the table were rounded up so that they coincide with the

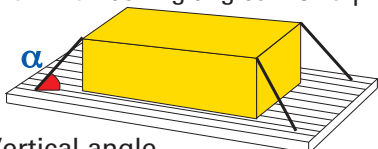
respective LC of the lashing devices available. For instance, this means that a 10-mm lashing chain has an LC of 6300 daN. The LC of the lashing devices is all the smaller the higher the coefficient of friction μ is. By precisely establishing the lashing angle, a more favourable LC value can also be calculated.

Load securing methods

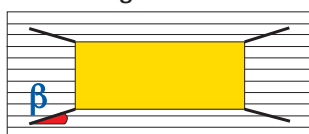
Diagonal lashing according to the Dolezych-Simple-Method®

DoZurr

Variant 1 with lashing angles α and β

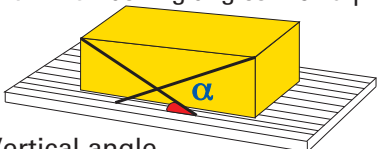


α : Vertical angle

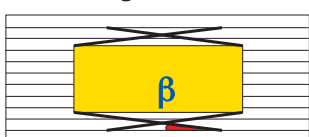


β : Horizontal angle

Variant 2 with lashing angles α and β

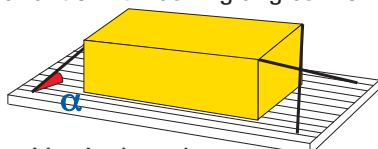


α : Vertical angle

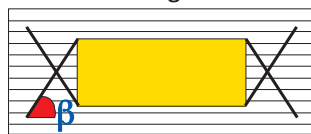


β : Horizontal angle

Variant 3 with lashing angles α and β



α : Vertical angle



β : Horizontal angle

Additional measures, such as blocking, wedging, nailing or form fitting the load, greatly increase security. Unfavourable angle ranges and measurements can be balanced with the cross-over method (see "Variant 2" and "Variant 3").

3.2.2 Coefficient of friction μ (also coefficient of kinetic friction)

For diagonal lashing, the friction affects the respective LC. The following applies: The higher the friction, the lower the LC required.

Dolezych-Simple-Method® Diagonal lashing

To secure a load with 4 lashing devices with a permissible LC in direct traction
Coefficient of friction μ

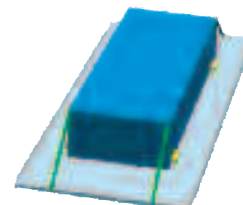
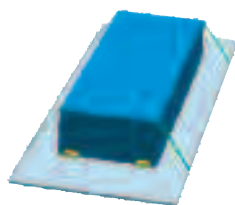
Load weight in kg	$\mu=0.1$	$\mu=0.2$	$\mu=0.3$	$\mu=0.4$	$\mu=0.5$	$\mu=0.6$
50000	-----	-----	-----	20000	16000	10000
48000	-----	-----	-----	16000	16000	10000
46000	-----	-----	-----	16000	10000	6300
44000	-----	-----	-----	16000	10000	6300
42000	-----	-----	-----	16000	10000	6300
40000	-----	-----	20000	16000	10000	6300
35000	-----	-----	20000	16000	10000	6300
30000	-----	-----	16000	10000	10000	4000
28000	-----	-----	16000	10000	6300	4000
26000	-----	-----	16000	10000	6300	4000
24000	-----	-----	16000	10000	6300	4000
22000	-----	20000	16000	10000	6300	4000
20000	-----	20000	10000	10000	6300	4000
18000	-----	20000	10000	6300	4000	2500
16000	-----	16000	10000	6300	4000	2500
14000	-----	16000	10000	6300	4000	2000
12000	20000	16000	6300	4000	4000	2000
10000	16000	10000	6300	4000	2500	1500
9000	16000	10000	6300	4000	2000	1500
8000	16000	10000	4000	4000	2000	1500
7000	16000	6300	4000	2500	1500	1000
6000	10000	6300	4000	2000	1500	1000
5000	10000	6300	2500	2000	1500	750
4000	6300	4000	2000	1500	1000	750
3000	6300	4000	1500	1000	750	500
2500	4000	2500	1500	1000	750	500
2000	4000	2000	1000	750	500	500
1500	2500	1500	750	500	500	250
1000	1500	1000	500	500	250	250
500	750	500	250	250	250	250
250	500	250	250	250	250	250

Vertical angle α between 20° and 65° , horizontal angle β between 6° and 55° . All table values were rounded up to the LC values (lashing capacity) of the Dolezych lashing devices.

3.3 Cross lashing

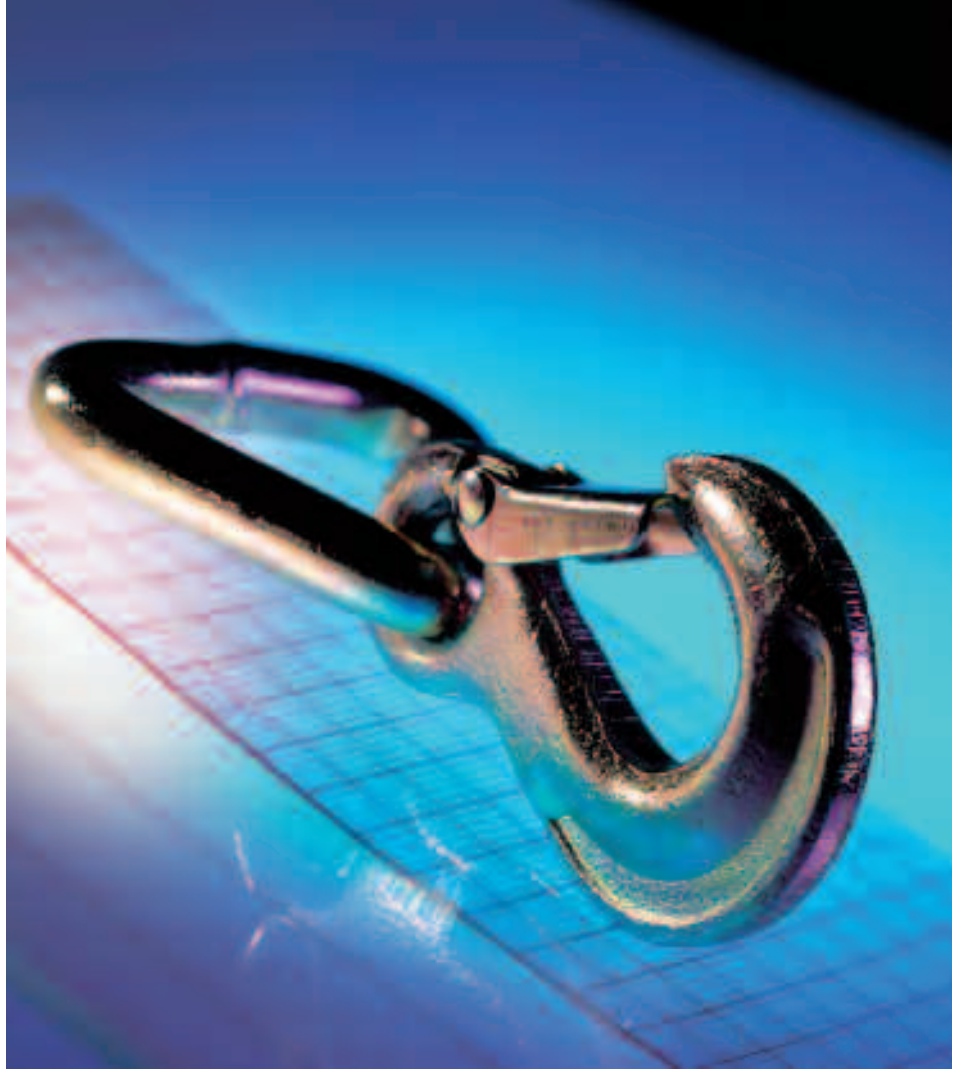
Cross lashing is form-fit direct securing with lashing devices either in longitudinal or in lateral direction, too. If a

vehicle has side lashing points, load movement when braking or starting can be prevented through cross lashing in a longitudinal direction.



The vehicle-bound lashing system according to the Dolezych-Simple-Method[®]

DoZurr



4. The vehicle-bound lashing system for diagonal or frictional lashing. Load securing without angle measurement and calculation. How does it work?

The vehicle is equipped with lashing devices according to its maximum weight capacity.

The lashing devices are dimensioned so that they achieve the required securing forces even under the most unfavourable conditions. Up to the top carrying capacity of the lorry, every stable, homogeneous load can be smoothly and securely lashed; either by **diagonal lashing or frictional lashing**.

Example for diagonal lashing:

You can find the value for your lorry in the Diagonal lashing table (see page 93) in column μ , by using the permissible carrying capacity of your lorry as well as the weight of the load.

Without angle measurement or further calculation, the load is always securely lashed up to the permissible carrying capacity.

Example: The carrying capacity of the lorry is 5000 kg.

Under ideal circumstances, with $\mu=0.6$ when using an anti-slip mats, 4 lashing devices with a LC of each 750 daN are required. With a friction of only $\mu=0.1$, the lashing devices must have a LC of 10000 daN each.

Example for frictional lashing:

Select from the frictional lashing table on page 91 the vertical angle $\alpha = 35^\circ$, which represents the most unfavourable angle for frictional lashing. Now enter the column of the carrying capacity (of your lorry) and determine the pre-tension forces which need to be provided by your lashing devices. The achievable pre-tension force, for example with the DoZurr 4000 with a standard ratchet 50 mm 250 daN or DoZurr 5000 with DoMulti ratchet 50 mm and DoMess pre-tension measurement device 750 daN.

Now you can read in the column with the coefficient of kinetic friction of $\mu = 0.3$ the number of lashing devices required for you for the vehicle-bound system.

Example: The carrying capacity of your lorry is 2000 kg.

At a coefficient of friction of $\mu=0.3$ and a lashing angle $\alpha=35^\circ$, 6 lashing systems with DoMulti long-lever ratchet with a pre-tension force S_{TF} of 750 daN are required.

Without angle measurement or additional calculations the load is securely lashed under the stated conditions up to the permissible carrying capacity. Even if you do not fully utilize the carrying capacity, but do transport smaller weights, you always use the same lashing devices - even if the load securing is over-dimensioned.

This is a vehicle-bound system according to the **Dolezych-Simple-Method**.

Pre-tension force

Pre-tension force is the main issue when frictionally lashing a load. The higher the pre-tension force in the lashing strap, the higher the weight that can be secured and the lower the number of lashing systems that are required to secure the load. The use of force indicators like DoMess 1, DoMess 2 and DoMess 3 (see p.144) enables a visualisation of the pre-tension force put onto the lashing strap by means of the tightening ratchet. DoMess 3 even allows for mobile use.

DoMess 1 is a pre-tension force indicator that is tightly fixed to the ratchet.



DoMess 2 can alternatively be fixed to the ratchet or to the lashing strap. DoMess 1 and DoMess 2 represent components of the respective lashing straps.



On the other hand, **DoMess 3** is a pre-tension force indicator that can be fixed to each 50 mm lashing strap in order to detect the pre-tension force, even on the opposite side of the lashing.

Why is that important ?

When there are no pre-tension force indicators attached to the lashing straps, the operator cannot detect the actual pre-tension force that is put onto the respective lashing strap. According to DIN EN 12195-2, each lashing strap used for frictional lashing of loads must be provided with a tag indicating the manual force (SHF) as well as the achievable pre-tension force STF.

The calculation for load securing can only be based on the minimum value for the pre-tension force marked on the tag.

According to DIN EN 12195-2, Dolezych lashing strap systems with standard ratchets and DoMulti- or Do2Step long handle ratchets are subjected to a GS-acceptance procedure. According to legal standards, the pre-tension force values STF and manual force SHF attested by the GS-acceptance test are stamped on the tag. The minimum values for standard ratchets are 10% of the admissible lashing capacity "LC" (lashing capacity) and their identification code is STF (Standard Tension Force). The minimum pre-tension force for a lashing strap with LC 2000 daN (direct pull) and 4000 daN / 4t (strapping) is

STF 250 daN, as well as the minimum pre-tension force for a lashing strap with LC 2500 daN (direct pull) and 5000 daN / 5t (strapping).

Dolezych long lever ratchets are generally labelled with a higher STF (STF 500 daN instead of 250 daN). The calculation for the necessary security forces for the load safeguards can only be based on the "normal pre-tension force" STF that is stamped on the tag.

The effective pre-tension force which may be higher shall only be used if it is detected by means of a pre-tension force indicator.

It is the use of pre-tension force indicators that does enable an optimal use of a ratchet, particularly a DoMulti long handle ratchet, Do2Step or DoVario ratchet (maximum LC 1000 daN approx.) In other words: the actual pre-tension force can safely be read off and can be used for the calculation for the number of lashing systems. The exemplary calculation on the following page shows how the number of lashing systems can be minimized.



Exemplary calculation for load securing with and without DoMulti



Example - Standard ratchet vs. DoMulti ratchet*
 With and without use of pre-tension force indicator.

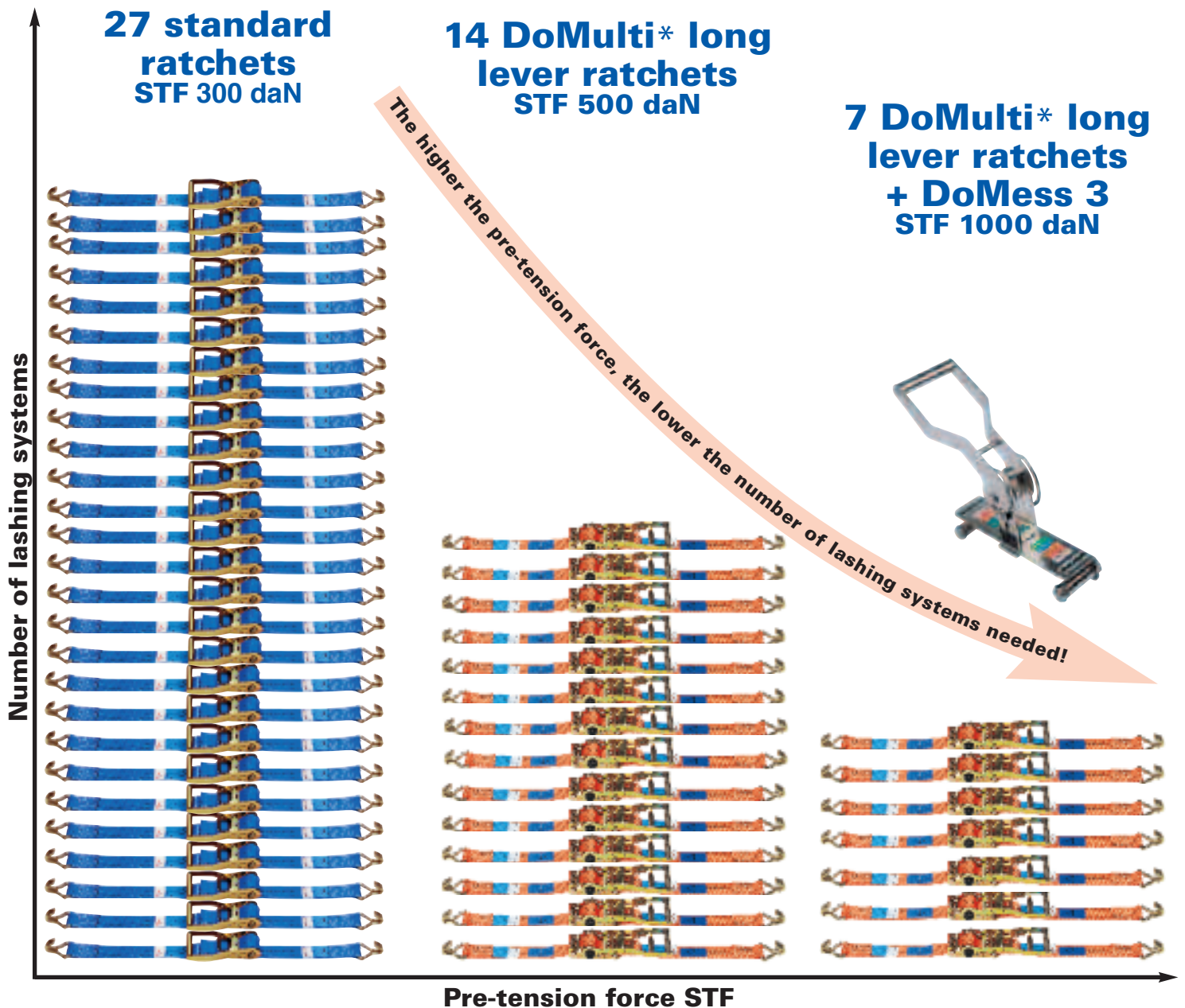
Frictional lashing a weight of 6t

With a coefficient of friction $\mu=0,3$ and a lashing angle $\alpha=90^\circ$ you need 27 lashing systems with standard ratchets.

Using DoMess 1, 2 or 3 pre-tension force indicators and DoMulti long handle ratchets you only need 7 lashing systems

and your load is still accordingly secured.

*also applicable for DoVario1, DoVario2 and Do2Step.



Ratchet types for 50mm webbing width

DoZurr

What different types of ratchets are available?

The following details are important to distinguish the different ratchet types:

- STF:** Standard tension force
Normal pre-tension force
- SHF:** Standard manual force
Normal manual force
- LC:** Lashing capacity
Admissible traction of lashing devices

For a webbing width of 50mm, Dolezych offers different types of ratchets:

1. DoZurr 4000 and 5000 standard ratchet

STF: 300 daN, SHF: 50 daN
LC 2000 daN and 2500 daN



Our top-selling ratchet for almost all intended uses.

With this ratchet, you play it safe! Subjected to acceptance procedure according to DIN EN12195-2

2. Do Multi 4000 and 5000 long lever ratchet

STF: 500 daN,
SHF: 50 daN
LC 2000 daN and 2500 daN



DoMulti long lever ratchets have a particularly stable handhold and a low profile.

Compared to standard ratchets, long handle ratchets can achieve double the pre-tension force value with the same manual force (1000 daN max.).

This is achieved by the longer ratchet lever, the principle of pulling instead of pushing, as well as the high transmission ratio (20 ratchet teeth instead of 11).

The result: The same load can be secured with a minimized number of lashing systems!

3. Do2Step 4000 and 5000 long lever ratchet

STF: 500 daN,
SHF: 50 daN
LC 2000 daN and 2500 daN



Like DoMulti ratchets, Do2Step ratchets achieve maximum pre-tension forces of 1000 daN.

The Do2Step mechanism guarantees highest safety standards when unloading cargo. In the first step, the webbing is automatically untightened by means of a safety slide without loosening the lashing devices.

This happens in the second step. The result: no whiplash effect when opening the ratchet and no danger due to tilting cargo.

This helps to protect the gears to enhance the durability of the ratchet system.

4. Modular systems DoVario 1+2 long lever ratchet

STF: 500 daN,
SHF: 50 daN
LC 2000 daN and 2500 daN



With integrated pre-tension force indicator and strap connector (without sewn elements), alternatively as Do2Step type (DoVario2).

Highest flexibility and cost control by exchangeable webbing.

You can decide yourself how long the lashing strap shall be: Lashing hooks with strap connectors and ratchet bodies with screw-in-devices allow a variable fixing of the webbing without sewing. In addition to ratchet technology at the highest level, long lever ratchets allow for highest pre-tension forces and at the same time perfect control of the pre-tension force by integrated pre-tension force indicator and optionally highest security standard by Do2Step automatic tension release (DoVario2).

5. DoPremium with 1. Standard ratchet

STF: 300 daN, SHF: 50 daN
LC 2500 daN and

2. Long lever ratchet

STF: 500 daN, SHF: 50 daN
LC 2500 daN



The standard ratchet as well as the long lever ratchet guarantee highest quality standards.

The powder-coated ratchet is particularly robust and it comes with outstanding ergonomics. The special webbing with dirt-repellant lotus effect and an extra flat fabric construction allows for an easy application of high pre-tension forces and a special protecting selvage completes this range of premium products. As a default, the DoPremium lashing systems come with our patent-registered DoConnect hooks.

Friction – different types of friction

The resistance against shifting of a body (cargo) on a surface (carrier, loading floor) or between single cargo components, i.e. friction, plays a fundamental role when securing a load according to directions.

Generally, we distinguish between the following types of frictional forces:

Static friction is the force which keeps a motionless object from sliding on a surface.

Kinetic friction acts to resist the motion of an object sliding across a surface.

Rolling friction is the resistance to the rolling of a body on a surface. It can occur when loading floors or loadings are polluted (sand, abrasion) and it should be avoided.

To take into account dynamic forces that can generally occur when transporting a load, the kinetic friction (not the static friction) has to be considered when making a calculation for load securing.

Anti-slip mats serve as an underlay that enhances the coefficient of kinetic friction

DoMatt anti-slip mats as load securing means guarantee a minimum coefficient of kinetic friction. The value of the frictional resistance is determined by the coefficient of friction μ .

According to the regulations of the employers liability insurance association, the coefficient of kinetic friction shall not fall below the value of $\mu=0.4$. Currently, coefficients of friction up to $\mu=0,6$ are accepted and have to be applied.

Caution with higher coefficients of friction! It may occur that higher coefficients of friction are indicated for anti-slip mats.

These elevated values (e.g. $\mu=0.9$) are ideal values that can be extremely reduced under the impact of changing environmental influences.

Load securing based on these super-elevated values can be hazardous.

Which quality characteristics of anti-slip mats are there?

The value μ is just one quality characteristic of anti-slip mats.

The following materials are used to enhance the coefficient of friction.

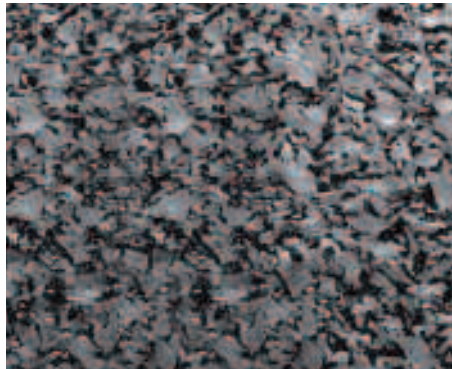


Fig 1: Anti-slip mats made of granulate fibres

Granulate fibres are compressed by PU adhesive agents. The quality of the anti-slip mats depends on the form and quantity of the fibres as well as on the adhesive agent. The higher the proportion of hollow space, the lower the quality of the anti-slip mats. In addition to the coefficient of friction, the following characteristics are fundamental.



Fig 2: Heavy-duty Anti-slip mat, heavy-duty, vulcanised, without hollow space

Indentation – deformation of anti-slip mats

Under the impact of high pressure, anti-slip mats with a high proportion of hollow space tend to densification and may become “soapy”. In this case, the coefficient of friction can be extremely reduced.



Fig 3: Indentation pattern

The indentation of the anti-slip mats can also have a positive effect on the load securing. The cavity that is caused by the deformation of the mat can prevent a shift of cargo. Especially in this context, the stability of the anti-slip mat is important. After 24 hours of stress by lattice box pallets (total weight 1000kg) DoMatt anti-slip mats do not show any deformations that have an effect on the function.

Please keep in mind when choosing an anti-slip mat: no deformation higher than 30% of the original strength of the anti-slip mat shall occur.

Tensile strength / shear strength [N/mm²]

Especially extremely thin anti-slip mats ($t < 4\text{mm}$) with a high proportion of hollow space can tear apart.

Inferior granulate mats even tend to form "balls".

From this follows that the higher the tensile strength of an anti-slip-mat, the higher its quality standard is.

DoMatt anti-slip mats have a minimum tensile strength of $\mu = 0,6 \text{ N/mm}^2$.

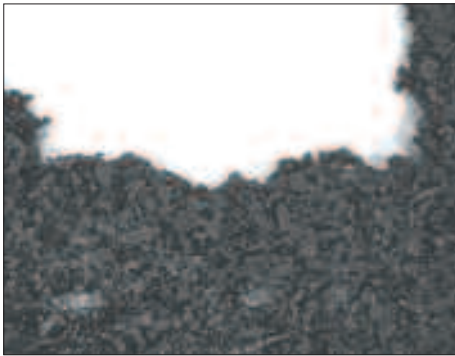


Fig.: Damaged anti-slip mat made of ball-shaped granulate.

DoMatt anti-slip mats have a tearing strain of at least 60%.

Dimensions

Each operator has to follow the directions concerning the necessary dimensions of anti-slip mats for different cargoes. Usually, anti-slip mats are cut-outs with different dimensions.

Depending on the load and the circumstances of loading, the cargo can be underlaid with small squarish mats or with long lamellar cut-outs.



Fig.: anti-slip mat cut-outs

Criteria for disposal of anti-slip mats:

Indications for immediate disposal are:

- permanent deformation or indentation
- holes, tears, cuts
- swollen parts
- acid or alkali burns
- embrittlement
- pollution that causes a negative impact on the coefficient of friction

With regard to the purpose of use and the type of lashing, the chosen DoMatt anti-slip mat must be strong enough and it must have the correct dimensions. Practical knowledge of load securing must always be taken into account.

anti-slip mats can be placed as separate parts between the different components (cargoes or cargo and loading floor).

They can also be directly placed on loading floors of vehicles.

Due to the different forms (straps, cut-outs etc.), they can generally be used for all kinds of cargo, except bulk cargo.

Handling of anti-slip mats

Vertically active forces, e.g. caused by unevenness of the road surface, can have a negative impact on the physical downforce that is resulting from the weight of the cargo. Different tests have unveiled that in such cases the vertical downforce and thus the effective frictional force can be close to zero.

The inappropriate use of anti-slip mats can be hazardous. The load must be placed on the anti-slip mat only. There shall be no contact with the surface (loading floor) that has a lower coefficient of kinetic friction than the anti-slip mat.

Caution: A load can never be secured by the frictional force exclusively.

There must be a combination with other measures, like frictional lashing of the load, for instance.

The use of anti-slip mats can cause an unwanted tilting of the cargo.

Appropriate preventive measures have to be taken.

The contact areas must be clean swept, ice-free, and free from greasy and oily substances.

Marking of anti-slip mats

DoMatt can be equipped with a marking that cannot be lost or destroyed. This marking is affixed to the marginal part of the anti-slip mat. When the load is placed on the anti-slip mat, the marking must still be viewable.



Further devices to enhance the coefficient of kinetic friction include:

- Anti-slip coated felt
- Anti-slip coated paper
- Foamed material, anti-slip coated on both sides
- Textile webbings, anti-slip coated on both sides
- Anti-slip bottom covering

Please inquire about further details!

Dolezych lashing straps – Instructions for use

Dolezych lashing systems conform to all specifications according to DIN EN12195-2, 3 and 4.

These instructions have to be read carefully before the start of any operation and they have to be adhered to whenever using Dolezych products.

They are valid for the following Dolezych products:

- DoZurr ratchet lashing systems
- PowerLash Heavy load lashing straps
- DoZurr cam buckle lashing straps

Please request more info on our Dolezych lashing chains and lashing wire ropes instruction handbook. Never use Dolezych lashing systems for any purpose other than securing cargo. Do not use for lifting loads! The following directions and technical rules and regulations are particularly to be adhered to:

VDI 2700 Blatt 1-9ff Load securing on road vehicles and
DIN EN 12195 Load securing devices on road vehicles Security
Part **1** Calculation for lashing forces
Part **2** Lashing straps made of chemical fibre
Part **3** Lashing chains
Part **4** Lashing wire ropes

Furthermore, separate regulations have to be respected if necessary, e.g. in case of dangerous goods, rail transport, sea transport or carriage by air.

When using lashing ropes and lashing chains, please take notice of the instructions on pages 212-217 and 332-335. Please inquire for detailed instructions or download manuals (www.dolezych.com).

Choice of Dolezych lashing systems:

Some determining factors for the choice of the appropriate Dolezych lashing systems are:

- Weight and type of load
- Friction μ between load and loading floor (matching different materials)
- Lashing technique (e.g. frictional lashing, angular or diagonal lashing technique or a combination of different techniques)
- Requirements on the vehicle (e.g. lashing points, permissible payload, load distribution)
- Surface of the load (e.g. sharp edges or abrasive surfaces may require the use of protective devices like sharp-edge protection corners or protector hoses).

Wrong choice can lead to malfunction or failure of the lashing system!

Take care of sharp edges (use only with sharp-edge protection or appropriate coating)

- Dolezych lashing systems are unsuitable for loads exceeding +100°C or below -40°C (polyester, polyamide) or exceeding +80°C and below -40°C (polypropylene).

Never exceed the permissible lashing capacity!

Initial use of Dolezych lashing systems:

Before the initial use of the chosen lashing systems, make sure that the identification and the dimensions are appropriate for the designated field of use.

Never use damaged lashing devices or a lashing strap without marking!

Identification of Dolezych lashing systems:
According to DIN EN 12195-2, each Dolezych lashing strap has an obligatory tag.

Dolezych DORTMUND

Code-No.

AV Nr.: 04054



Do not use for lifting loads!

SHF	STF
50 daN	300daN

LC 2500 daN

Webbing material PES
Elongation < 5%
Effective length LGF= 0,5m
Year of fabrication 2010
Traceability code
VDI 2700/ EN 12195-2

Details on the tag:

- Permissible lashing capacity in daN (1 daN = 10 N = 1kp)
- Normal manual force SHF in daN = 50daN
- Pre-tension force STF in daN that can be achieved with the normal manual force of 50 daN, min. 10% of the LC, max. 50%
- Standards of fabrication
- webbing material
PES (=polyester): blue tag
PA (=polyamide): green tag
PP (=polypropylene): brown tag
- Effective length
- Year of fabrication
- Producer Dolezych Dortmund
- Traceability code
- GS mark and test station
- Permissible lashing capacity with symbols for One-piece or two-parted lashing systems (direct pull or strapping)
- Warning message: " Do not use for lifting loads!"
- Elongation with max. traction force

Transport of cargo

1. Loading of a vehicle: When loading a vehicle, amongst others, the Accident Prevention & Insurance Association safety prevention regulation (VGB 12 "Vehicles) have to be adhered to.

Some excerpts from the directions:

- When loading a vehicle, the permissible
 1. Total weight
 2. Axle load limit
 3. Maximum tow bar load
 4. Vertical load shall not be exceeded.
 The load must be distributed on the vehicle so that the impact on the road performance is not exceeding the inevitable minimum.

Check the load distribution plan of the vehicle manufacturer!

- When loading and unloading a vehicle, any endangerment by falling, tilting or inadvertent rolling pieces or by outflowing and escaping substances must be strictly avoided.
- The load must be stowed and, if necessary, secured in such a way that, under usual traffic conditions, any endangerment of persons is excluded.

First and foremost, load securing means personal security!

2. Check the standfastness and the stability of the load!,
If necessary, the load must be secured by means of appropriate lashing devices or blocking (Criteria for stability under load see VDI 2700 page 2). Further safety measures must be implemented by lashing. Unstable loads must be secured in suitable and stable units (container, bundles etc.).
Reels must be fixed by appropriate devices (posts, wedges).

3. Choice of suitable types of lashing:

- Frictional lashing - when frictional lashing a load, the necessary safety forces exclusively result from the pressing of the load against the loading floor.
Therefore, the load is covered with lashing devices.
The pre-tension force in the lashing devices is of decisive importance. The lashing angle (angle between the horizontal and the lashing devices) must be as large as possible. (Perpendicular lashing systems, $\alpha=90^\circ$).
Generally, small and medium heavy loads are secured by the frictional lashing technique.

Caution: the pre-tension force shall not exceed 50% of the permissible tractive force LC of the lashing strap. For freestanding loads, at least two lashing systems are necessary!

- Diagonal lashing technique : the lashing device is directly fixed between the lashing points of the load and the lashing points of the loading floor.
The load is directly secured by the lashing devices.
The lashing systems are pre-tensioned to 10% of the LC.
The permissible tractive force of the lashing systems is of decisive importance. The lashing angles shall be $20^\circ - 65^\circ$ (vertical angle) and $6^\circ - 55^\circ$ horizontal angle (angle between the longitudinal axle of the vehicle and the lashing devices).
The diagonal lashing technique is appropriate for heavy loads and it should be preferred to frictional lashing a load whenever this is possible.
For freestanding loads, at least four lashing systems are necessary!
- Combinations : It may be advantageous to combine the lashing techniques mentioned above or to apply

supplemental load securing.
Please inquire for further details!

4. Determining the necessary lashing devices:

- The determination of the necessary lashing devices is done by the Dolezych simple method (see pp 90 -94) or by the calculation software Do.L.O.R.E.S.
One condition is that the load must be stable and tilt-resistant (see VDI 2700 page 2) and the lashing angles α and β as well as the coefficient of kinetic friction and the weight of the load must be known.

Coefficients of kinetic friction

μ	dry	wet	greasy
Wood/Wood	0,20-0,50	0,20-0,25	0,05-0,15
Metal/Wood	0,20-0,50	0,20-0,25	0,02-0,10
Metal/Metal	0,10-0,25	0,10-0,20	0,01-0,10
Concrete/Wood	0,30-0,60	0,30-0,50	0,10-0,20

The coefficient of kinetic friction can be considerably enhanced by using DoMatt anti-slip mats.

Greasy substances can considerably reduce the coefficient of kinetic friction (down to 0,01) !

A coefficient of kinetic friction of $\mu=0,3$ means that it takes a power of 300 daN to shift a load of 1t.

This means that a loading weight of 700kg still has to be secured (e. g. by using three DoZurr 5000 lashing systems (LC=2500 daN), frictional lashing technique, pre-tension force 250 daN each, lashing angle $\alpha=90^\circ$)

5. Carefully lash the load. Roll up and tie up unneeded webbing and store it in a dry area.
6. Re-tighten lashing straps periodically during transport (particularly shortly after the start of transport)

Dolezych lashing straps – Instructions for use

Caution: each lashing strap undergoes elongation when tightened!

Dolezych lashing systems are characterized by a considerably low elongation behaviour (5% max.)

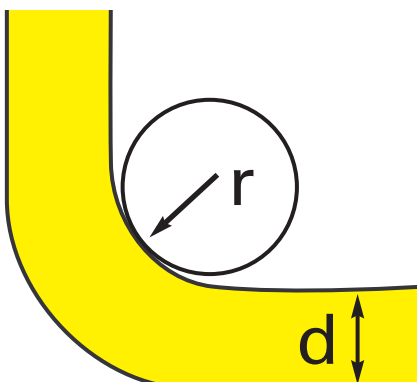
Nevertheless, it is necessary to re-tighten the lashing systems periodically.

This has to be done even when the lashing systems are not subjected to any movement, but when they are stored together with transport racks for instance.

7. Before releasing the lashing systems, make sure that the load is stable even without the lashing devices. If this is not the case or if there is any doubt, the load must be secured with lifting slings before the lashing systems can be opened. Only if any endangerment can be clearly excluded, the lashing systems may be removed. The Dolezych Do2Step long lever ratchet offers a special security system because it is opened in two steps.

Important advice on use and cautionary warning messages:

- The permissible lashing capacity stamped on the tag shall never be exceeded.
- Never use a lashing strap as a lifting device.
- Lashing hooks are not designed for point loading.



- Tensioner elements and connecting elements shall not be subjected to bending stress.
- With sharp-edged loads or abrasive surfaces, lashing systems can only be used if the respective parts of the webbings are protected. If the edge radius r is falling below the strength of the webbing, the edge is designated as a sharp edge. Dolex protective hoses avoid any damage caused by sharp edges.

Caution: when sliding over sharp edges, even DoLex protective hoses can be damaged!

PVC and PU protective material only serve as abrasion protections on rough surfaces.

- Dolezych sharp-edge protection is particularly appropriate for rectangular loads.
- When the ratchet is tightened, the webbing must be wrapped at least $2\frac{1}{4}$ times around the half-cycle of the ratchet.
- Lashing straps shall never be joined by knotting.
- When securing a load, only lashing devices of the same type can be used (e. g. same material, same permissible lashing capacity, etc.) Exceptions are possible, e. g. when different lashing techniques are combined.
- When cutting, grinding or welding works are in progress, the lashing systems must be protected against flying sparks.
- Never overstress lashing systems. Mechanical devices like pipes or poles may not be used to tighten the lashing systems.
- When tensioner elements or connecting elements are broken or bent, the respective lashing strap must be disposed of.
- No loads shall be placed on the webbing if this can cause damage.

- Tensioner elements (ratchets) must be closed after tightening.
- Tensioner elements (ratchets) must be inspected regularly; moving parts must be lubricated with oil or grease.

Cleaning of Dolezych lashing systems:

Dolezych lashing systems shall be cleaned with clear water only. Never use chemical additives.

Lashing straps that have become wet during use or cleaning procedures shall never be dried by using heat.

Storing of lashing straps:

Before storing, always inspect lashing systems. Never store damaged lashing systems. Lashing straps must be stored in a clean, dry and sufficiently vented area. They shall not be exposed to heat, chemicals, smoke gas, corrosive surfaces, solar radiation and any other ultraviolet light source.

After a longer time of storage, the lashing systems (particularly the moving parts of the tensioner elements) must be inspected!

Use of Dolezych lashing systems in connection with chemicals:

The materials that are used to produce Dolezych lashing systems (PES, PA, PP) have different physical characteristics (e. g. grip, stability and abrasion resistance). Chemicals can have different effects on the different materials.

Caution: The materials can be seriously damaged by chemicals (depending on specific temperature, concentration and exposure time. The lashing capacity can be considerably reduced.

When your lashing systems are exposed to chemicals, please inquire for our advice. If your lashing systems have come into contact with chemicals, immediately clean them with clear water or any appropriate cleaning agent. In this case, the directives concerning occupational health and safety must be adhered to.

Due to evaporation processes even harmless acids or alkaline solutions can develop a concentration within the webbing that can cause serious damages!

Use of Dolezych lashing systems in different ranges of temperature:

Dolezych lashing systems are designated for the following temperature ranges:

Webbing material	Temperature range
Polyester, Polyamide:	-40° bis +100°C
Polypropylene:	-40° bis + 80°C

These temperature ranges can change depending on the chemical environment. In such cases, please inquire for our advice.

Periodic inspections:

Lashing straps must be inspected at least annually by a qualified person. Depending on the working conditions, inspections may be needed more frequently, particularly in cases of frequent use, increased wear, corrosion or impact of heat or when operational experience shows an elevated risk of damages. During the time of usage, periodic inspections have to be done in order to reveal damages that may influence continuous safe use of the lashing strap. These inspections must include the connecting elements as well as the markings. If there are any doubts if the lashing strap still can be used or if the necessary tag is missing,

if any damages or other incidents that could influence the lashing capacity are known, the lashing strap must be removed from service in order to be inspected by a qualified person. Defects or damages that may influence the continuous and safe use are: abrasion and cuts on the surface or on the edges of the webbing, stirrup slings, knitting or eyes, exposure to chemicals or damaged or deformed tensioner and connecting elements.

Dolezych inspection service

Please call on the mobile Dolezych inspection service! We test your lashing systems in our test centre, in your firm or directly on site.

Dolezych repair-service

If there are any defects or damages, our specialized staff can repair your lashing systems. This will help you to reduce costs.

Field repair is not permitted. Only manufacturers or other qualified persons may make repairs!

Indications for disposal of Dolezych lashing systems:

Dolezych lashing systems must be removed from service in the following cases:

- Yarn breaks and cuts in the fabric over more than 10% of the cross-section
- Damages of primary stitching
- Deformation due to impact of heat (friction, radiation)
- Damages resulting from the exposure to aggressive substances
- Deformations, incipient cracks, breaks or other damages of the tensioner and connecting elements (e. g. recess of the hook)
- Missing or illegible marking

General hazard warnings:

When using webbing and tensioner elements, the following hazards for the user must be considered:

- Danger of being hit by a tilting load
- Bruising or cutting of hands and arms when tightening the lashing systems
- Loads that are not sufficiently secured can shift during the transport and can fall down when opening the tailgate.
- The use of inappropriate combinations of lashing systems (e. g. lashing systems with different permissible traction forces LC)
- Please consider the hazard warnings in the annex of DIN EN12195-2, 3 and 4.

Let your loaders and drivers attend security instruction courses.

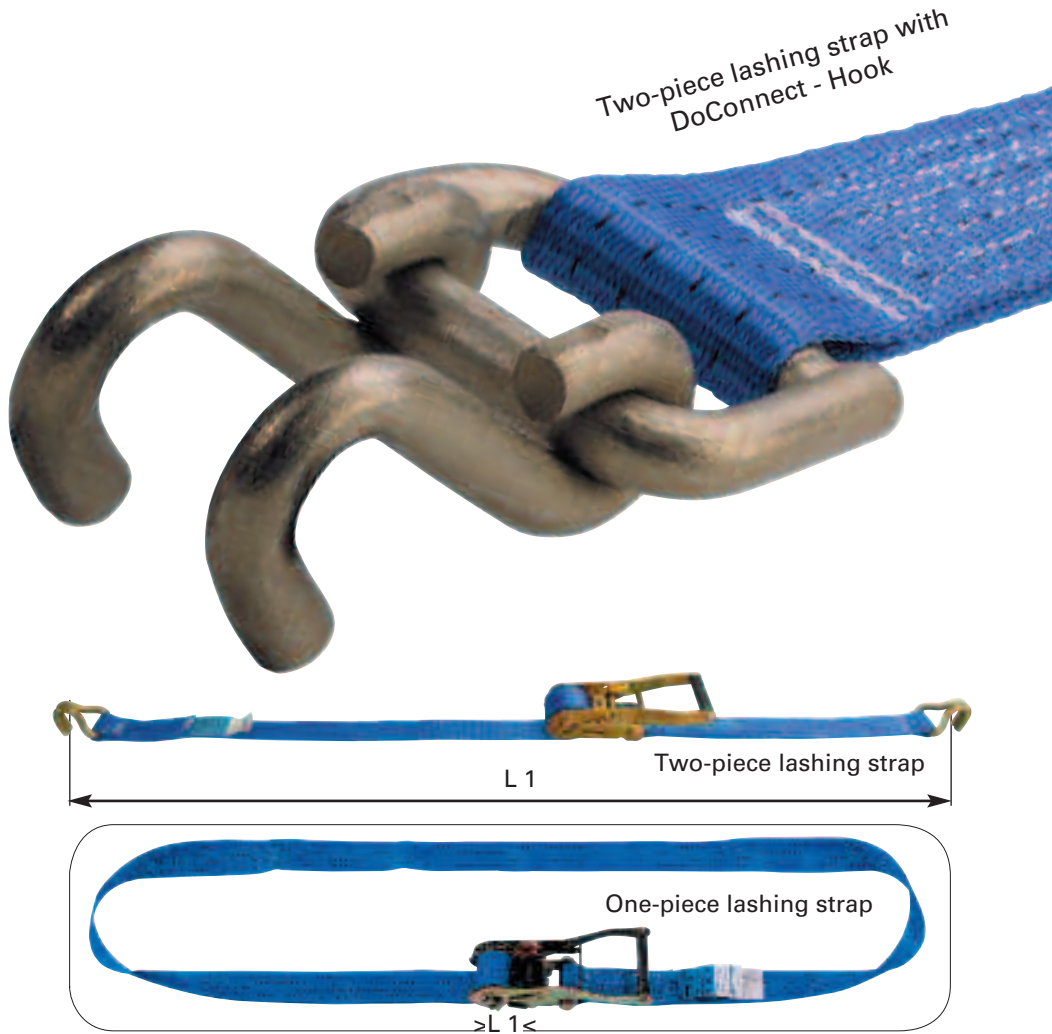
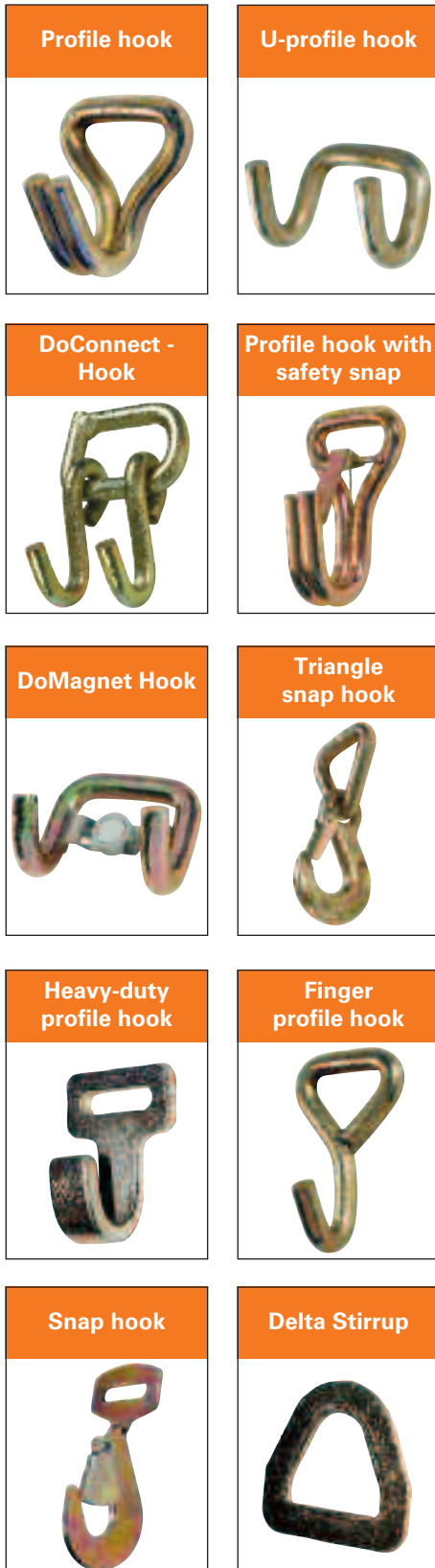
Several times a year, Dolezych organizes the well-known "Dortmund Seminars" for anybody who deals with load securing. We even organize training classes in your firm:

Please inquire for details!

BQH Load securing instruction courses
Tel. +49-231/ 827598

Lashing straps with standard ratchet, 50 mm width

DoZurr 4000



DoZurr 4000 Short part = 0.5m; long part 7.5m

Galvanized standard ratchet with lever safety, two cog wheels.
Highly stretched Polyester fabric, 50mm, low elongation, abrasion resistant.
Galvanized hooks.

Type of hook/fitting variant	Item no..	Price /8m L1 Total	Extra meter
Two-piece lashing strap with 2x			
Profile hook	2650 4034	Price on enquiry	Price on enquiry
U-Profile hook	2650 4078		
DoConnect - Hook	2650 4097		
Snap hook	2650 4012		
DoMagnet Hook	2650 4178		
Triangle snap hook	2650 4112		
Heavy-duty profile hook	2650 4134		
Finger profile hook	2650 4234		
Profile hook with safety snap	2650 4334		
Delta Stirrup	2650 4056		
One-piece lashing strap (L1=circumference)	1650 4000		



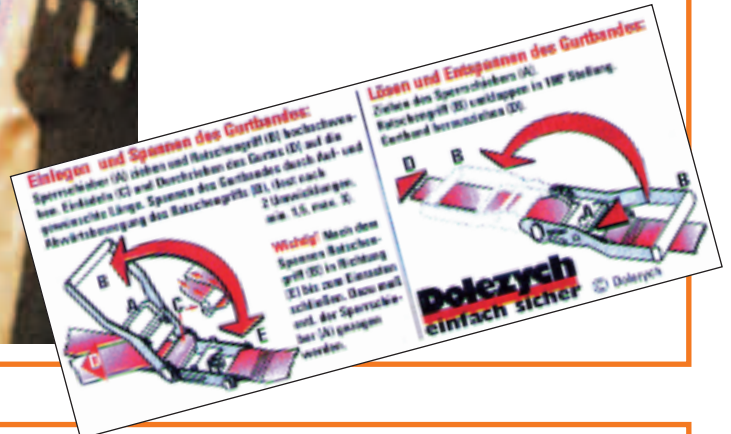
Safety as a standard: DolInfo-Plus tag



Wrong handling of lashing systems becomes a thing of the past. Each Dolezych-lashing strap is equipped with this unique and free tag.

- How to place the webbing
- How to tighten the strap
- How to loose the strap

DolInfo-Plus – your safety surplus!



DoZurr 4000

LC direct pull	LC strapping	STF
Two piece	One piece	
2000 daN	4000 daN	300 daN



DoConnect – our patent-registered lashing hook.

Movable elements enable different applications – profile hook, u-profile hook or strapping band.

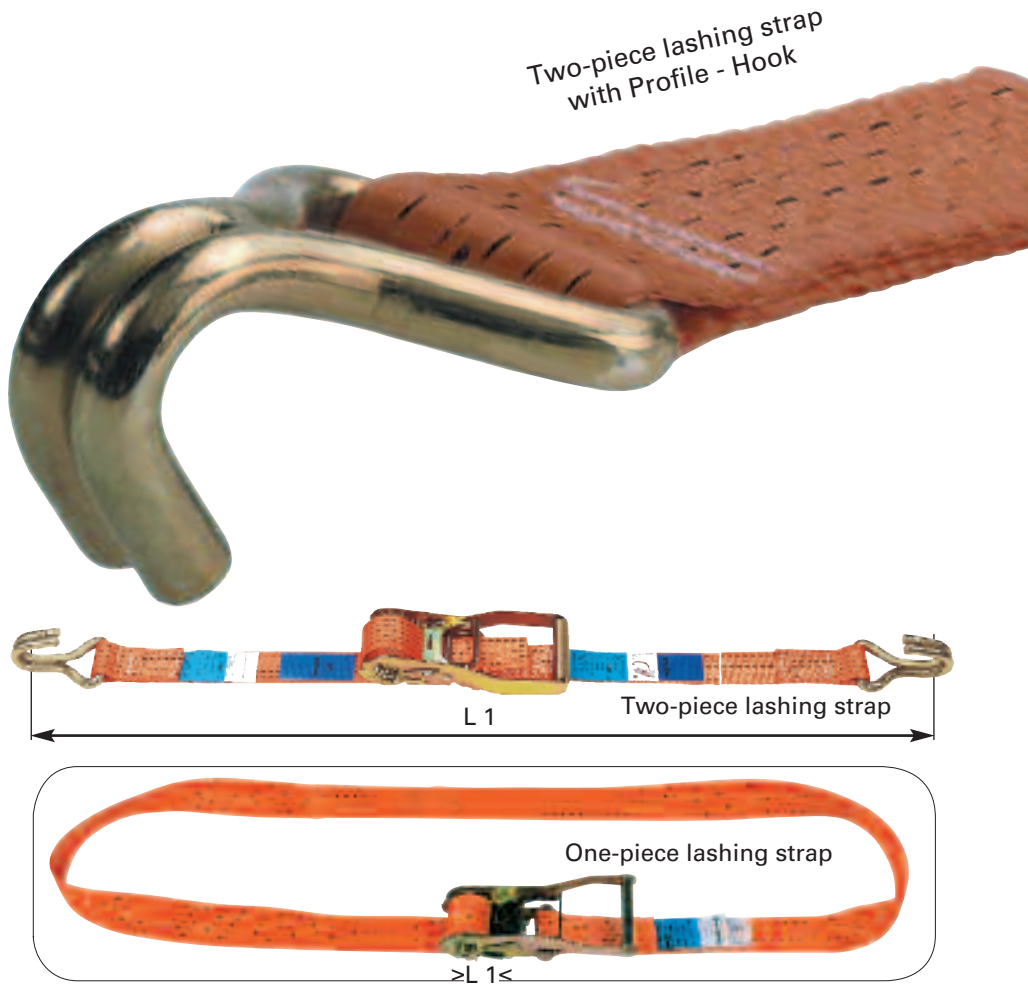
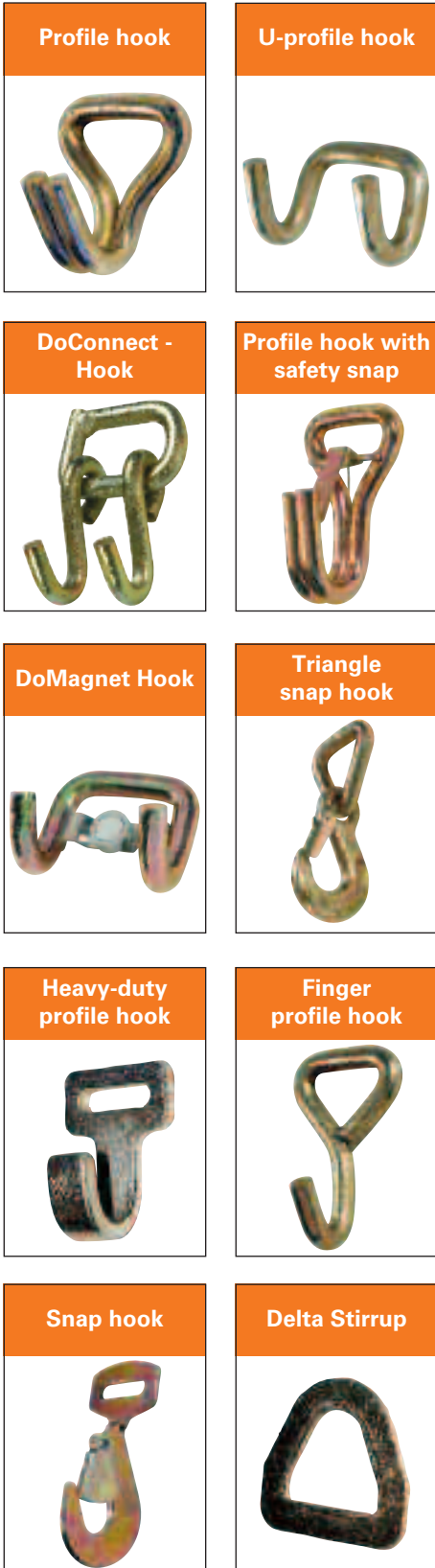
All lashing systems are available with individual imprint. A low quantity ordered is printed according to standards whereas high quantities are printed according to your print master layout.

Writings can also be woven into the material. Please request for further details!



Lashing straps with standard ratchet, 50 mm width

DoZurr 5000



DoZurr 5000 Short part = 0.5m; long part 7.5m

Galvanized standard ratchet with lever safety, two cog wheels.
Highly stretched Polyester fabric, 50mm, low elongation, abrasion resistant.
Galvanized hooks.

Type of hook/fitting variant	Item no.	Price /8m L1 Total	Extra meter
Two-piece lashing strap with 2x			
Profile hook	2650 5034	Price on enquiry	Price on enquiry
U-Profile hook	2650 5078		
DoConnect - Hook	2650 5097		
Snap hook	2650 5012		
DoMagnet Hook	2650 5178		
Triangle snap hook	2650 5112		
Heavy-duty profile hook	2650 5134		
Finger profile hook	2650 5234		
Profile hook with safety snap	2650 5334		
Delta Stirrup	2650 5056		
One-piece lashing strap (L1=circumference)	1650 5000		



DoZurr 5000

LC direct pull	LC strapping	STF
		
Two piece	One piece	
2500 daN	5000 daN	300 daN

By default, DoZurr 4000 and 5000, 50mm lashing systems are blue or orange.
On demand, other colours are available, e. g. white or grey for use at events.

Please inquire for further details!

DoMark-Plus – your safety surplus!

...undetachable supplementary tag on lashing systems, lifting straps and round slings.

If the original tag becomes illegible or is lost, DoMark-Plus will replace it.

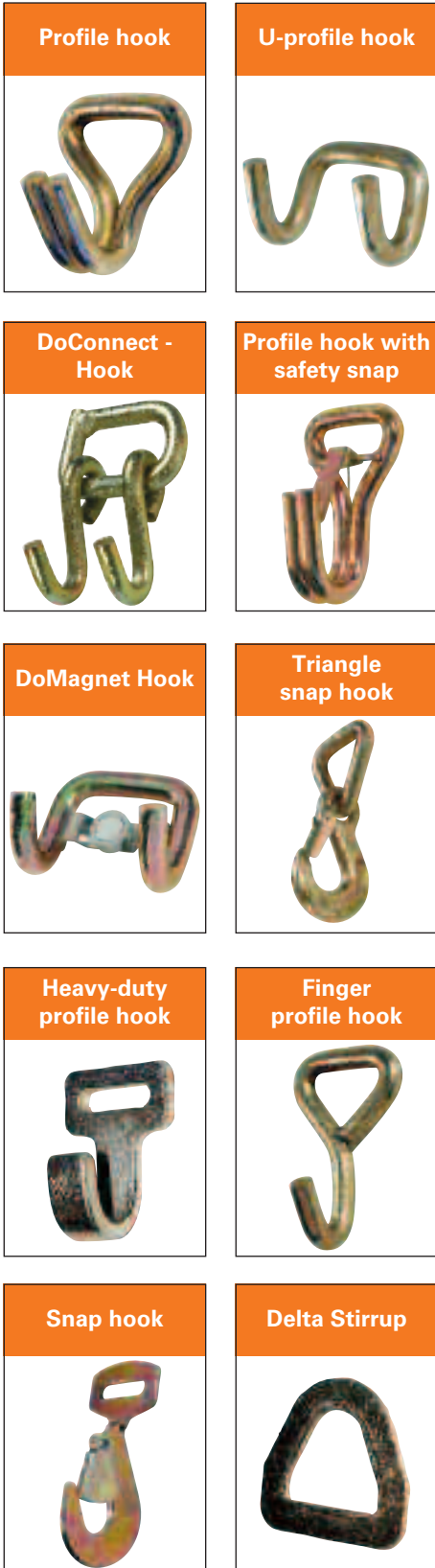
The lashing systems, lifting straps and round slings do not have to be removed from service!

Item no. 0599 0055
Price/unit 0.80



Lashing straps with DoMulti long lever ratchet
50 mm width

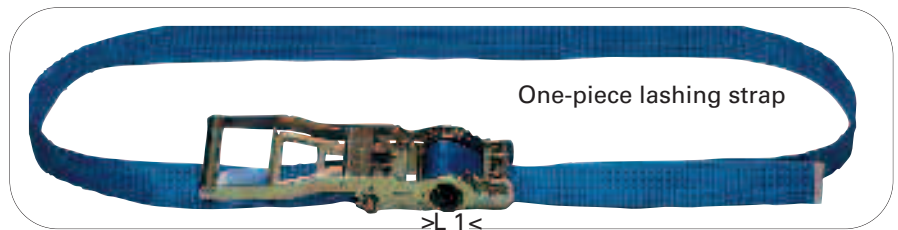
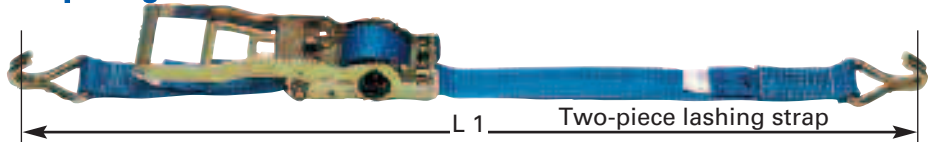
DoZurr 4000



Two-piece lashing strap with profile hook



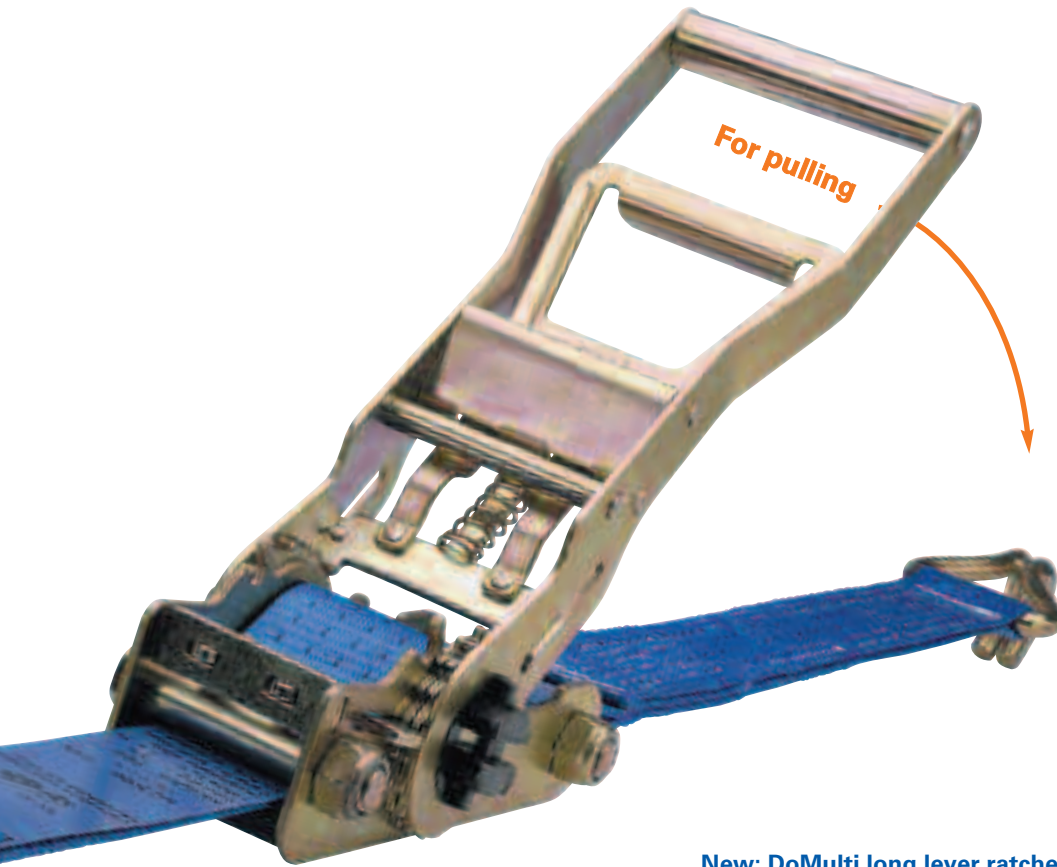
For pulling



DoZurr 4000 with DoMulti long lever ratchet
Short part = 0.5m; long part 7.5m




Galvanized long handle ratchet with lever safety, four cog wheels.
Highly stretched Polyester fabric, 50mm, low elongation, abrasion resistant.
Galvanized hooks.

Type of hook/fitting variant	Item no.	Price /8m L1 Total	Extra meter
Two-piece lashing strap with 2x			
Profile hook	2651 4034	Price on enquiry	Price on enquiry
U-Profile hook	2651 4078		
DoMagnet Hook	2651 4178		
Snap hook	2651 4012		
DoConnect - Hook	2651 4097		
Triangle snap hook	2651 4112		
Heavy-duty profile hook	2651 4134		
Finger profile hook	2651 4234		
Profile hook with safety snap	2651 4334		
Delta Stirrup	2651 4056		
One-piece lashing strap (L1=circumference)	1651 4000		



New: DoMulti long lever ratchets with integrated pre-tension force indicators, see pp 112-113!

DoZurr 4000 with DoMulti

LC direct pull	LC strapping	STF
		
Two pieces	One piece	
2000 daN	4000 daN	500 daN

DoMulti

DoMulti long lever pull-/ pressure ratchet – the ergonomic ratchet

- DoMulti can be reversed. That's why it can be applied as a long handle ratchet and as a pressure ratchet. DoMulti is assembled as a long handle ratchet, but it takes only a few movements to transform it into a pressure ratchet.
It depends on your position:
Are you standing on the loading floor when frictional lashing the load?
The leverage effect isn't ideal or the lever should be pushed down? Reverse your DoMulti and it can be applied as a long handle ratchet.
- **Long tensioner lever** (350mm) and **ideal transmission ratio** (20teeth)
- Easy handling – high pre-tension force (1000 daN can be achieved)
- Four cog wheels instead of two
- Wear resistant and robust
- Easy to open – safe construction

Accessories DoKlett Long part fixing

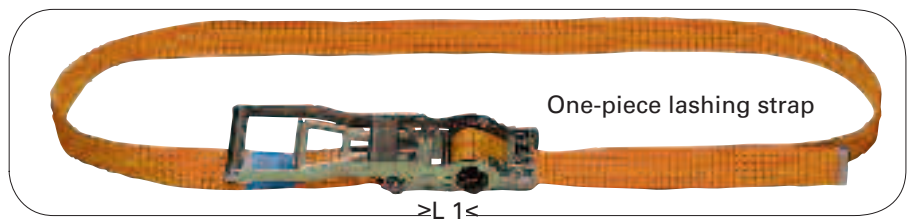
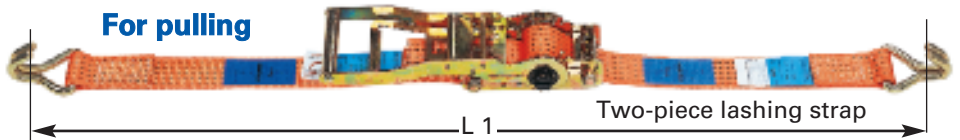
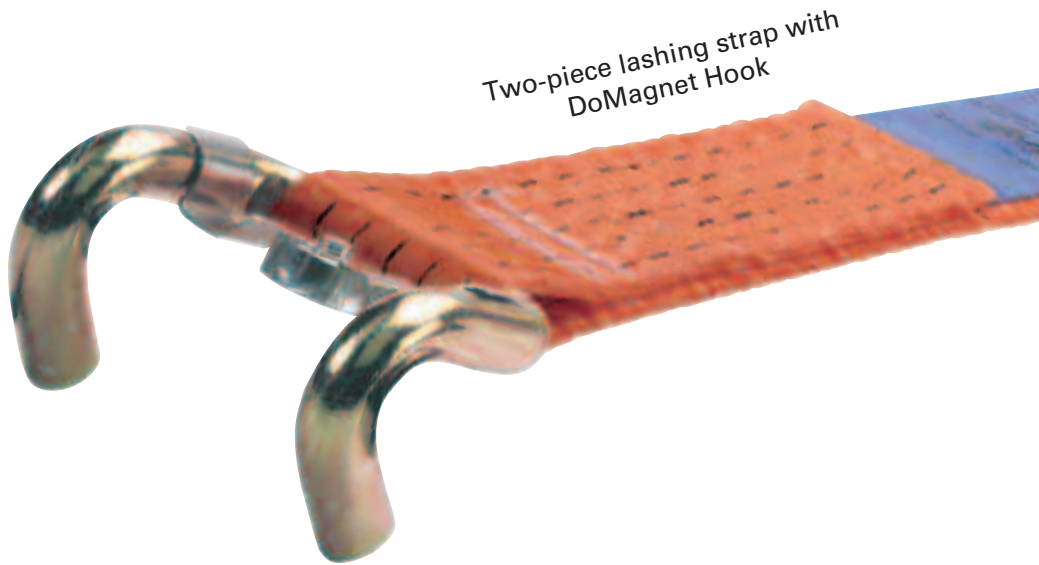
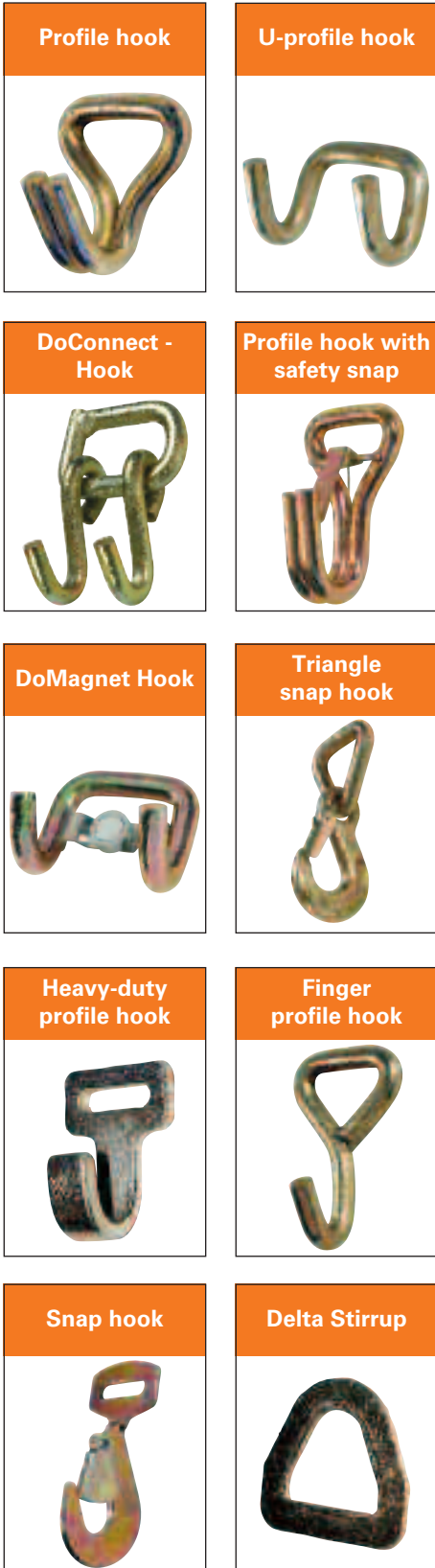
The long part isn't flapping in the wind any more. „Mantraps” and whiplash effects are a thing of the past. DoKlett is stitched on the short part and that is why it can only be delivered with the complete system.

Width 25 mm	Item no. 1600 2524	0.90
Width 35 mm	Item no. 1600 3624	1.60
Width 50 mm	Item no. 1600 5024	1.70



Lashing straps with DoMulti long lever ratchet
50 mm width

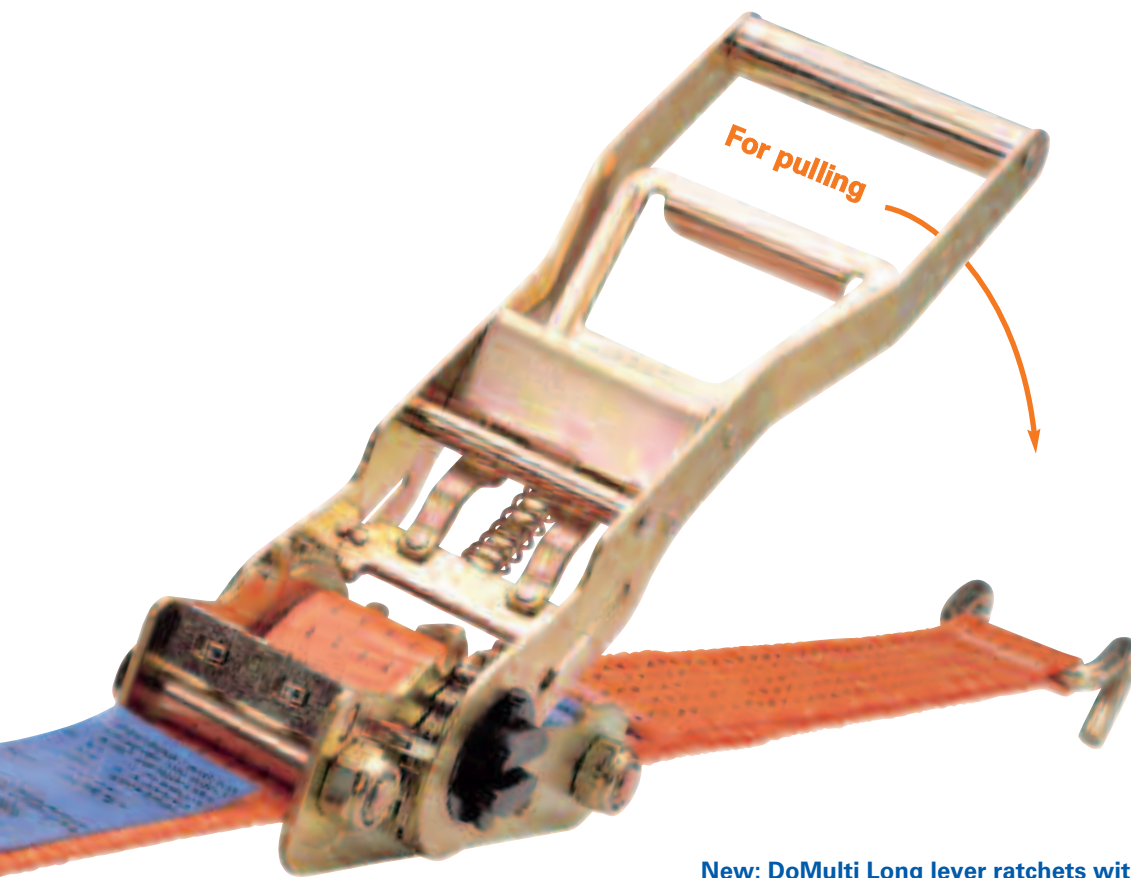
DoZurr 5000



DoZurr 5000 with DoMulti long lever ratchet
Short part = 0.5m; long part 7.5m


Galvanized long handle ratchet with lever safety, four cog wheels.
Highly stretched Polyester fabric, 50mm, low elongation, abrasion resistant.
Galvanized hooks.

Type of hook/fitting variant	Item no.	Price /8m L1 Total	Extra meter
Two-piece lashing strap with 2x			
Profile hook	2651 5034	Price on enquiry	Price on enquiry
U-Profile hook	2651 5078		
DoMagnet Hook	2651 5178		
Snap hook	2651 5012		
DoConnect - Hook	2651 5097		
Triangle snap hook	2651 5112		
Heavy-duty profile hook	2651 5134		
Finger profile hook	2651 5234		
Profile hook with safety snap	2651 5334		
Delta Stirrup	2651 5056		
One-piece lashing strap (L1=circumference)	1651 5000		



New: DoMulti Long lever ratchets with integrated pre-tension force indicators, see pp 112-113!

DoZurr 5000 with DoMulti

LC direct pull	LC strapping	STF
		
Two pieces	One piece	
2500 daN	5000 daN	500 daN

DoMulti

DoMulti long lever pull-/ pressure ratchet – the ergonomic ratchet

- DoMulti can be reversed. That is why it can be applied as a long handle ratchet and as a pressure ratchet. DoMulti is assembled as a long handle ratchet, but it takes only a few movements to transform it into a pressure ratchet.

It depends on your position: Are you standing on the loading floor when frictionally lashing the load? Is the leverage effect not ideal or should the lever be pushed down? Just reverse your DoMulti and it can immediately be applied as a long handle ratchet.

- Long tensioner lever** (350 mm) and **ideal transmission ratio** (20 teeth)
- Easy handling – high pre-tension force (1000 daN can be achieved)
- Four cog wheels instead of two
- Wear-resistant and robust easy to open – safe construction

DoMagnet – the “third hand”

The problem: You throw the lashing strap over the load and you fix the long part on the other side. Regularly, the hook loosens itself and the driver must walk around the vehicle to reattach it.

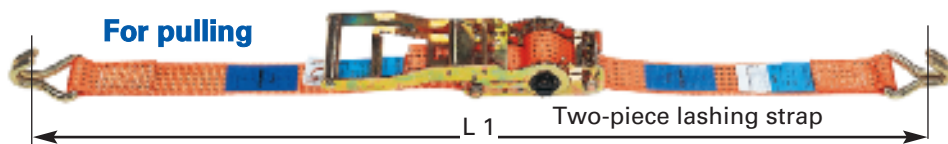
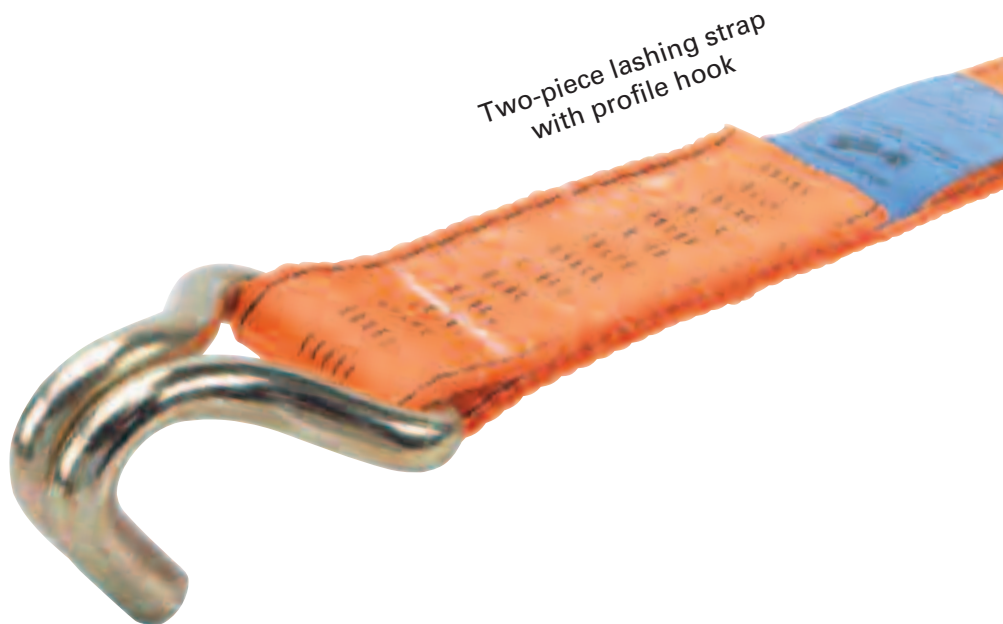
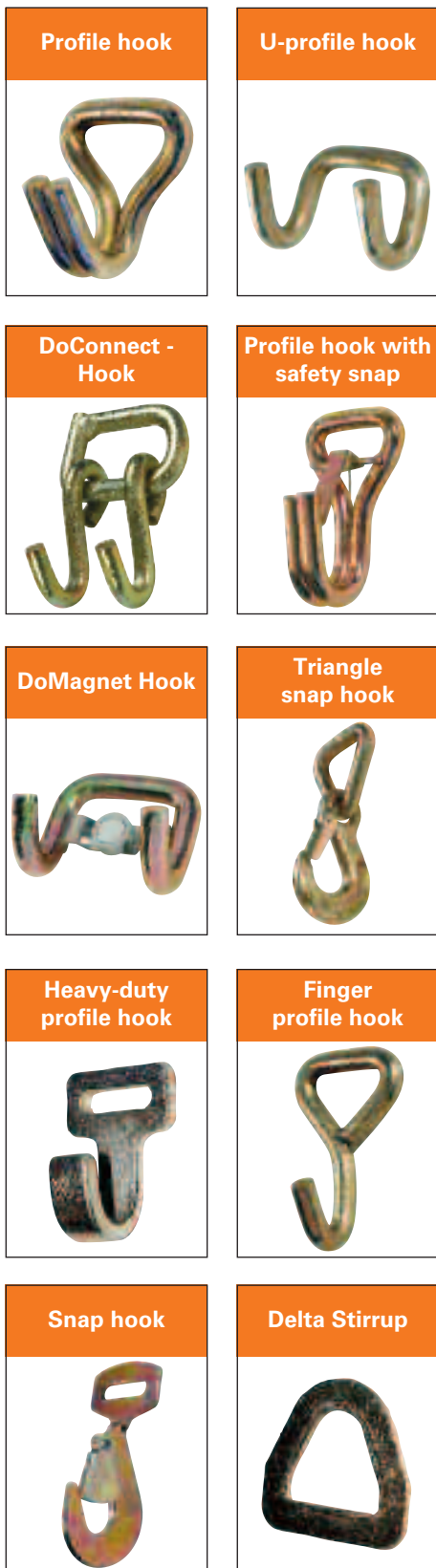
The solution: The DoMagnet hook sticks to the vehicle frame and it can't loosen itself while the strap is tightened on the other side.



Lashing straps with DoMulti long lever ratchet and DoMess 2 pre-tension force indicator

DoZurr 5000

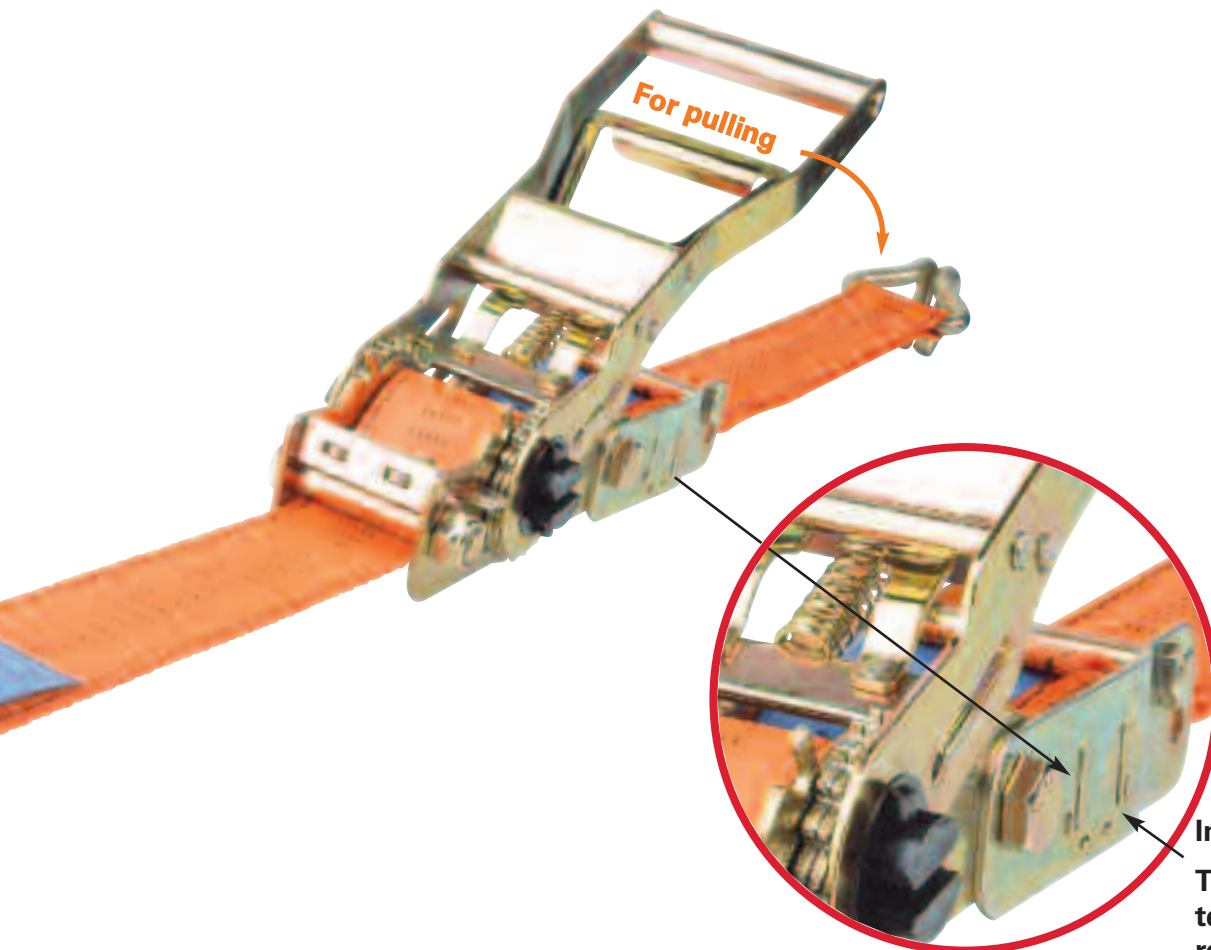
DoMulti + DoMess 2



DoZurr 5000 with DoMulti long lever ratchet and DoMess 2 Short part = 0.3m; long part 7.7m

Galvanized long handle ratchet with lever safety, four cog wheels.
Highly stretched Polyester fabric, 50mm, low elongation, abrasion resistant.
Galvanized hooks.

Type of hook/fitting variant	Item no.	Price /8m L1 Total	Extra meter
Two-piece lashing strap with 2x			
Profile hook	2652 5034	Price on enquiry	Price on enquiry
U-Profile hook	2652 5078		
DoMagnet Hook	2652 5178		
Snap hook	2652 5012		
DoConnect - Hook	2652 5097		
Triangle snap hook	2652 5112		
Heavy-duty profile hook	2652 5134		
Finger profile hook	2652 5234		
Profile hook with safety snap	2652 5334		
Delta Stirrup	2652 5056		
One-piece lashing strap (L1=circumference)	1652 5000		



Indicator scale
The value for the pre-tension force can be read off.

DoZurr 5000 with DoMulti

LC direct pull	LC strapping	STF
		
Two pieces	One piece	
2500 daN	5000 daN	500 daN

New: DoMulti long lever ratchets with integrated pre-tension force indicator

The DoMulti long lever long handle ratchet is also available with DoMess2 pre-tension force indicator. By default, DoMess2 is firmly attached to the ratchet and the pre-tension force of the lashing strap can be easily read (scale grades in measures of 250 daN, up to 1000 daN).

Alternatively, DoMess 2 can be loosely attached to the webbing and so the pre-tension force on the other side of the tensioner element (ratchet) can be displayed.

DoMulti

DoMulti long lever pull-/ pressure ratchet – the ergonomic ratchet

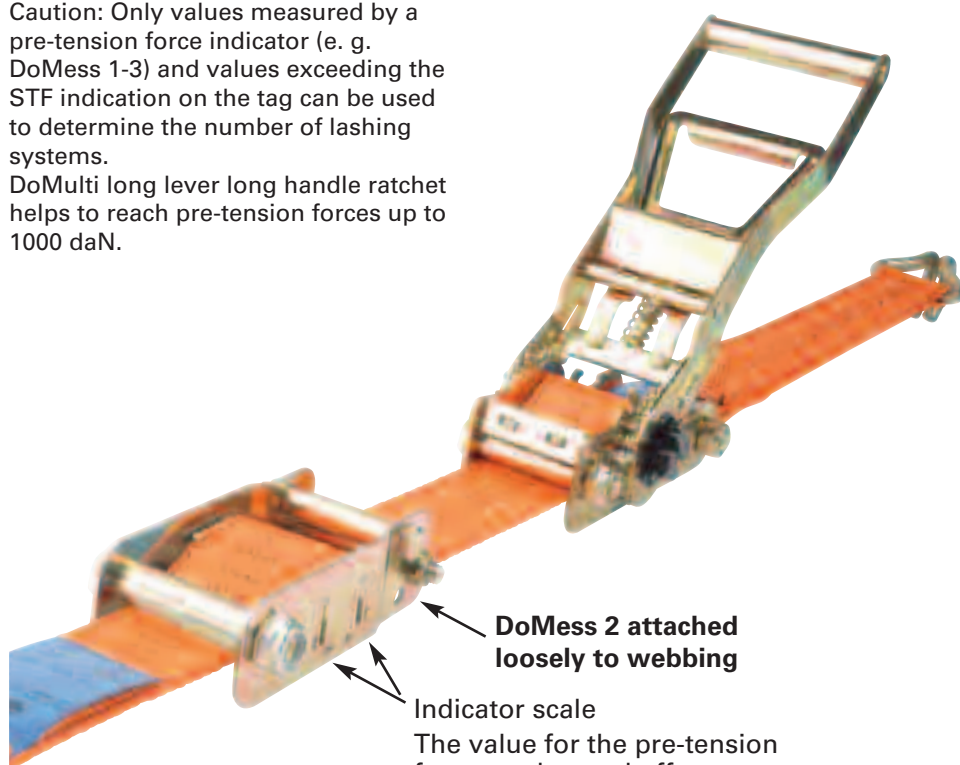
- DoMulti can be reversed. That's why it can be applied as a long handle ratchet and as a pressure ratchet. DoMulti is assembled as a long handle ratchet but it takes only a few movements to transform it into a pressure ratchet.

It depends on your position:

Are you standing on the loading floor when frictional lashing the load? The leverage effect isn't ideal or the lever should be pushed down? Turn around your DoMulti and it can be applied as a long handle ratchet.

- Long tensioner lever** (350 mm) and **ideal transmission ratio** (20 teeth)
- Easy handling – high pre-tension force (1000 daN can be achieved)
- Four cog wheels instead of two
- Wear resistant and robust
- Easy to open – safe construction

Caution: Only values measured by a pre-tension force indicator (e. g. DoMess 1-3) and values exceeding the STF indication on the tag can be used to determine the number of lashing systems. DoMulti long lever long handle ratchet helps to reach pre-tension forces up to 1000 daN.



DoMess 2 attached loosely to webbing

Indicator scale
The value for the pre-tension force can be read off.

DoPremium lashing systems with standard ratchet

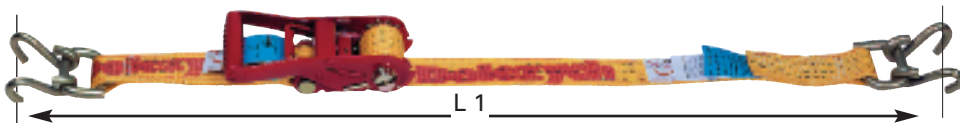
DoPremium

Two piece lashing strap
with DoConnect hook



- **Premium standard ratchet**
Top design, ergonomic handle and extra protection by powder coating

Standard ratchet



DoPremium 5000 with comfort standard ratchet

LC direct pull	LC strapping	STF
		
Two pieces	One piece	
2500 daN	5000 daN	300 daN

DoPremium 5000 with comfort standard ratchet Short part =0.5m; long part 7.5m

Ratchet : galvanized and powder coated comfort ratchet with ergonomically designed ratchet lever hand lever security, two cog wheels
Webbing: Highly stretched Polyester fabric, 50mm, low elongation, abrasion resistant.
Extra PU impregnation, DoConnect hooks galvanized

Type of hook/fitting variant	Price /8m L1 Total	Extra meter	Item no.
Two-piece lashing strap with 2x DoConnect-Hook	on enquiry	on enquiry	2650 5897





DoPremium lashing systems with long lever pull ratchet

DoPremium



DoPremium long lever pull ratchet

- **With all advantages of the DoMulti ratchet:**, 350 mm ratchet lever, ideal transmission ratio
Pre-tension forces of 1000 daN can be easily achieved.
- **Premium webbing** High durability due to optimized webbing structure
Extra dirt repellent lotus effect and special selvedge to avoid damages.
The extra flat fabric construction allows an easy application of high pre-tension forces.
High abrasion resistance of the webbing due to a special impregnation.

Long lever long handle ratchet



DoPremium 5000 with DoMulti long lever pull ratchet Short part =0.5m; long part 7.5m

Ratchet: long lever ratchet with 4 cog wheels, ideal transmission ratio
Webbing: designed like DoPremium with comfort ratchet on the front side

Type of hook/fitting variant	Price /8m L1 Total	Extra meter	Item no.
Two-piece lashing strap with 2x DoConnect-Hook	on enquiry	on enquiry	2651 5897

DoPremium 5000 with DoMulti long lever pull ratchet

LC direct pull	LC strapping	STF
Two pieces	One piece	
2500 daN	5000 daN	500 daN



Both DoPremium lashing systems are equipped with patent registered DoConnect hooks!

DoConnect – One hook – three solutions

DoConnect can be alternatively used as a profile or u-profile hook.

Due to movable elements, DoConnect can be quickly transformed into the desired hook type.

If you wish to join or to extend lashing systems – just connect two DoConnect hooks.

Dolezych patent



Profile hook



U profile hook



Two connected DoConnect hooks

Lashing straps with Do2Step long lever ratchet and automatic re-feeding

Do2Step

- Indispensable to avoid tilting or shifting cargo
- Ratchet opens in two steps
- Automatic refeeding



Lashing straps with Do2Step long lever-ratchet

Your advantages:

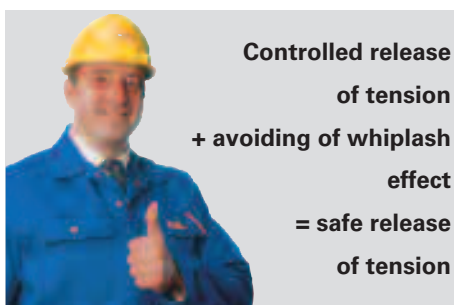
- No hazards due to shifting or tilting loads.
- No risk of injury due to the so-called whiplash effect, because the webbing is not released all at once when the ratchet is loosened.
- Comfortable handling. Due to the long lever and the number of teeth (20 instead of 11) and the principle of pulling instead of pushing, your vertebral column is not excessively stressed.

- Efficient because highest pre-tension forces can be easily achieved (1000 daN and more).
- Quick because due to the high pre-tension forces, the number of lashing systems can be minimized. This helps to save time and money.
- With the automatic refeeding, the ratchet can be immediately be used again.

Function

- In the first step, the webbing is automatically untightened by means of a safety slide without loosening the lashing devices. Any tilting of the load is still avoided by the lashing devices.

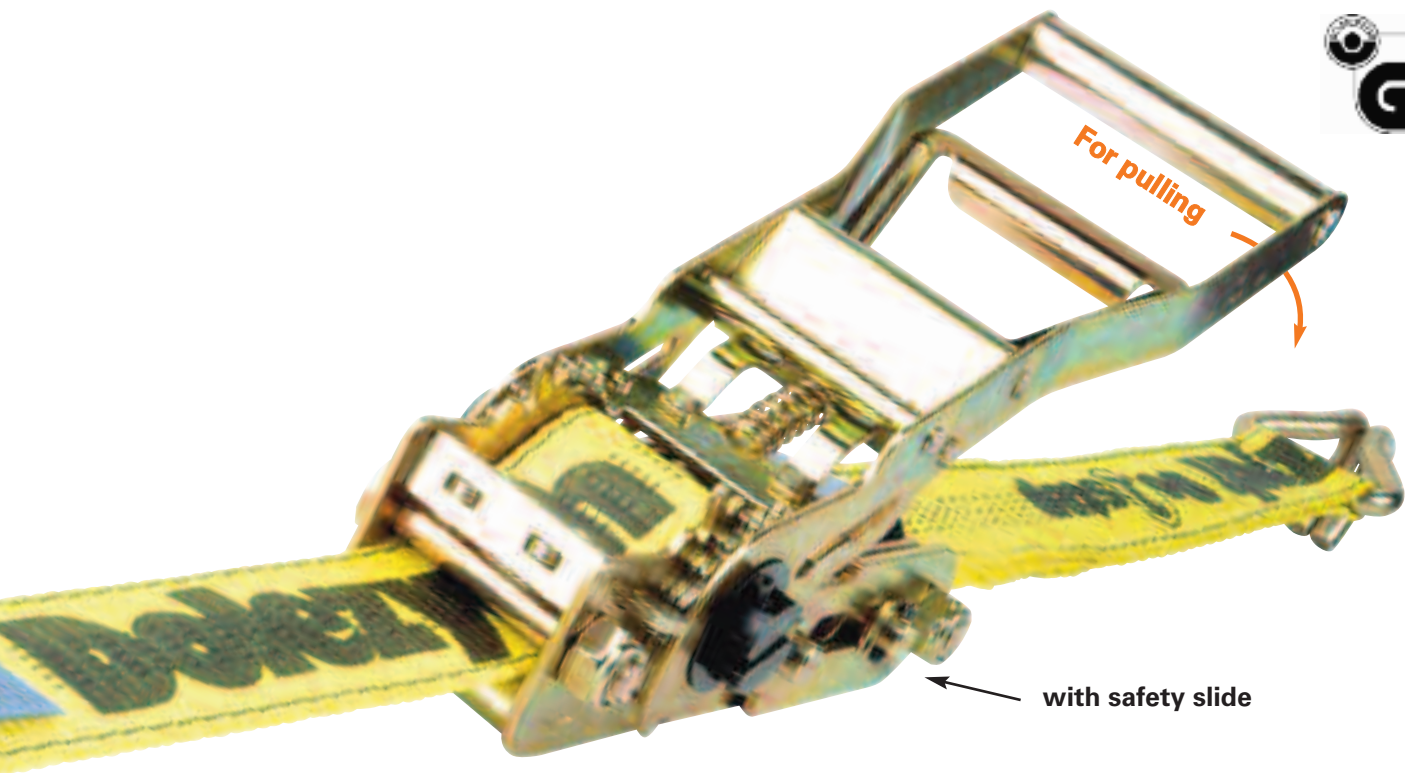
- The load can easily be controlled. No shifting or tilting of loads.
- In cases of hazard, the Do2Step ratchet can be tightened again or the load can be secured by means of lifting slings.
- When there is no danger of tilting or shifting load, the lashing systems can be finally opened in the second step.



Controlled release of tension + avoiding of whiplash effect = safe release of tension

DoZurr 5000 with Do2Step-Ratchet

LC direct pull	LC strapping	STF
Two pieces	One piece	
2500 daN	5000 daN	500 daN



Do2Step ... the easy and safe way to avoid accidents that can be caused

by instable, sliding, and tilting loads when opening the lashing devices.

Do2Step-Ratchet

Do2Step ratchet vs. standard ratchet

What are the advantages of the Do2Step ratchet compared to a conventional standard ratchet? With a conventional standard ratchet, the lashing strap can only be released in one step. Possible tilting or shifting of the load can not be controlled.

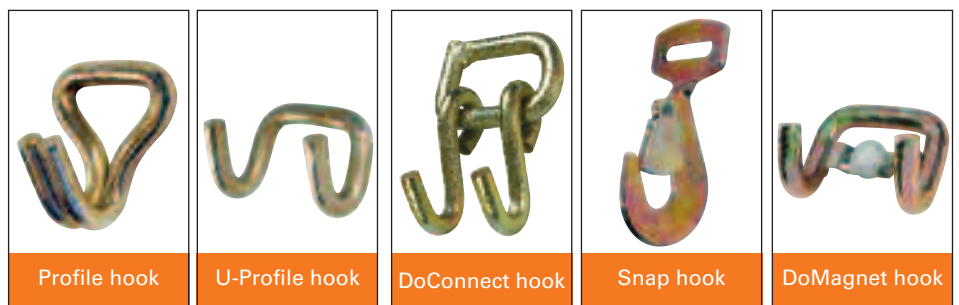
When a standard ratchet is carefully opened and so the tension is removed from the webbing, the operator always has to take care that there are enough windings on the winding shaft for each and every lashing strap.

According to directions, at least 1,5 windings must be on the wrapping shaft so that the webbing cannot slip out. In cases of false estimate, the load can tilt.

Just try to estimate the number of windings on the winding shaft of a tightened ratchet! You will see that it does not work.

The Do2Step ratchet is not released by means of the winding shaft, but with the help of an extra safety slide.

DoZurr 5000



DoZurr 5000 with Do2Step long lever ratchet Short part =0.3m; long part 7.7m

Elektroplated long handle ratchet with lever safety, four cog wheels, pre-stretched polyester fabric, 50mm, low elongation, abrasion resistant. Galvanized hooks.

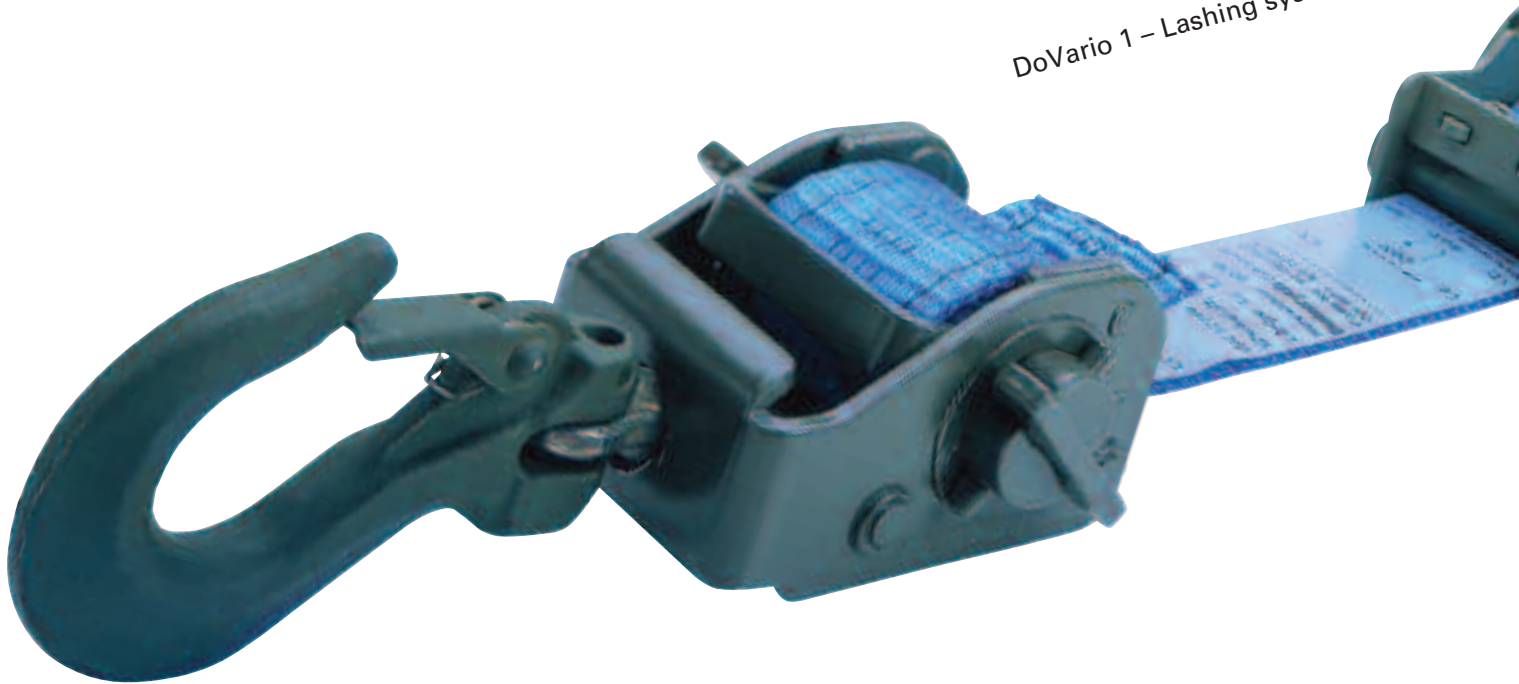
Type of hook/end fittings	Price/8m L1 Total	Extra meter	Item no.
Two-parted lashing strap with 2x			
Profile hook			2650 5434
U-Profile hook	Price on enquiry	Price on enquiry	2650 5478
DoMagnet hook			2650 5479
Snap hook			2650 5412
DoConnect hook			2650 5497

The Do2Step ratchet is an innovation based on the well-proven DoMulti long lever ratchets. For several years, these ratchets with pretension force indicators have successfully been used by the German Army and NATO.

Modular system for self-installation

DoVario 1

DoVario 1 – Lashing system



The DoVario Lashing strap modular system consists of:

Long lever ratchet DoMulti

Long lever ratchet DoMulti
The long lever (350mm) and the ideal transmission ratio (4 cog wheels with 20 teeth) of the ratchet enables easy handling so that high pretension forces can be achieved. DoMulti is wear resistant, durable and robust. Easy to release tension – safe construction

DoMess 1 pretension force measuring device

The integrated patent-registered pretension force indicator DoMess 1 with 50 special disc stirrup enables a constant control of the pretension forces. The pretension forces are displayed in steps of 250 daN. This guarantees an optimal safety during transport!

Strap connector

The short part is not sewn on the ratchet, so the length can be flexibly adjusted. Defective lashing systems can easily and quickly be replaced without sewing.

Hooks: optionally available with:

1. Strap connector with swivel hook

The patent-registered swivel hook seamlessly connects the webbing to the lashing hook. Easy to connect. Hooks are rotatable (360°) and pivotable (180°) and so they can be optimally adapted to any loading situation. The combination with a lashing chain is also possible

2. Strap connector with swivel hook, convertible without use of tools (no bolts or eyebolts)

The patent-registered gripping mechanism enables a safe grip of the lashing systems in the blink of an eye. The webbing is fed in and removed without the use of tools. A webbing that has to be removed from service can simply be replaced.

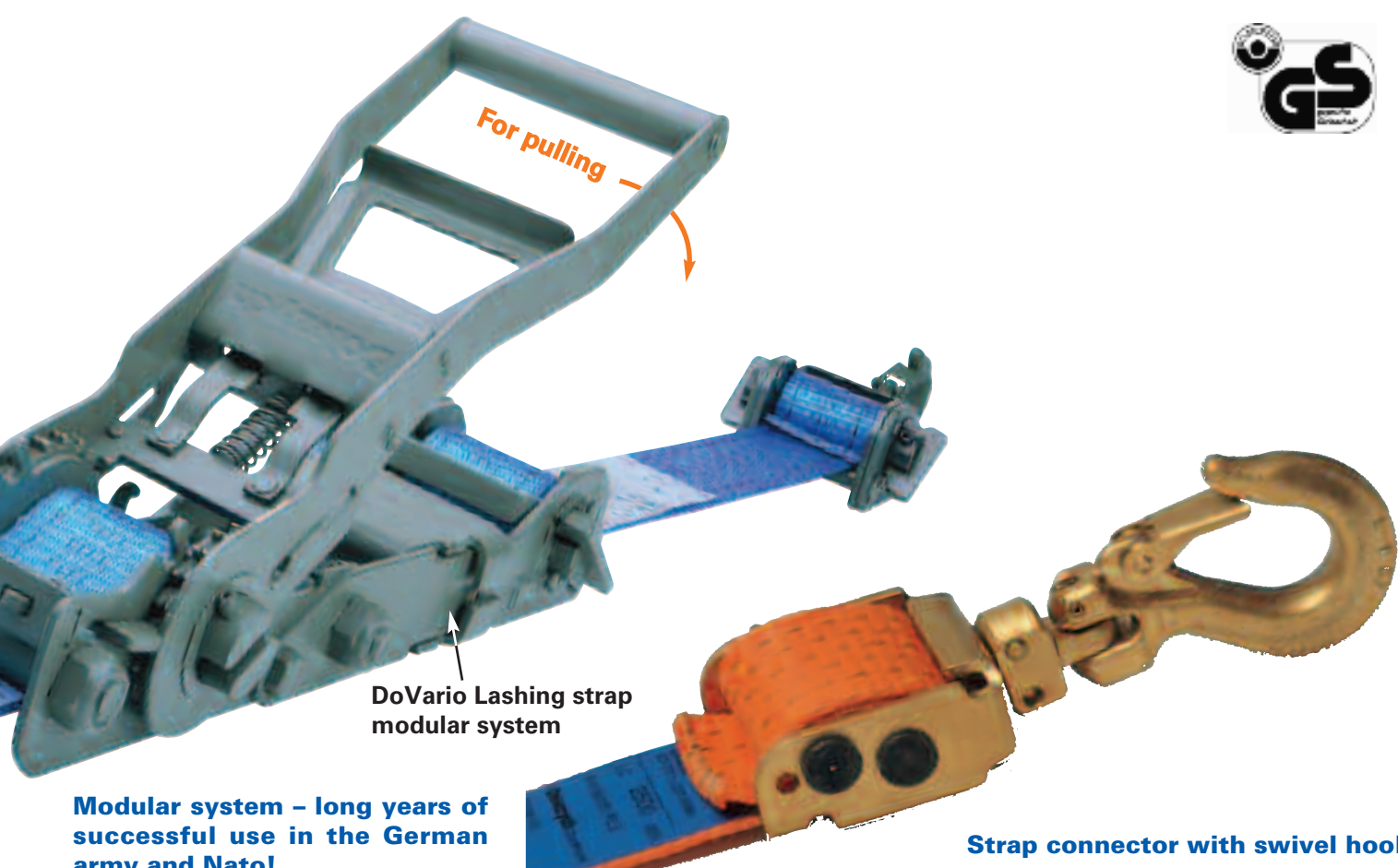
Modular system DoVario 1

Description	Item no.	Price
DoVario 4000 Lashing strap assembly kit (8m long)	2653 4012	Price on enquiry
Safety lashing hook	0651 0091	
Strap connector with bolts and swivels	0651 0092	
Strap connector	0650 0089	
Tag	0618 9960	
Webbing (100m / any other length available)	5557 5012	
DoVario ratchet with DoMess pretension force indicator and Strap connector	0650 6005	
DoVario ratchet with strap connector (without DoMess)	0650 6105	

The fitting parts of customary lashing systems are sewn on the webbing.

The DoVario system needs no sewing.

The accurate attachment of the hooks is done by means of screw-in-swivels and strap connector.

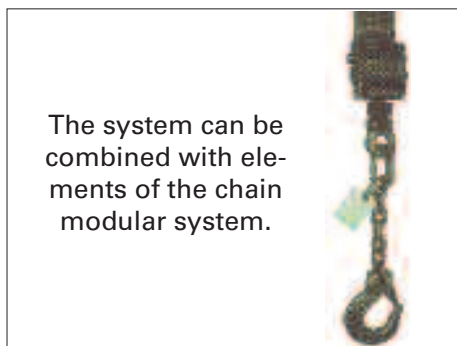


Modular system – long years of successful use in the German army and Nato!

DoVario 1

Your advantages:

- Installation is directly done on-site
- You can individually determine the length of the belt tie downs.
- Length of the short parts can be individually adjusted.
- When elements reach indications for disposal, only they have to be replaced.
- Cost-saving replacement of worn-out belt tie downs.
- Combination with other systems is possible (e. g. chain modular system)
- Hooks are rotatable (360°) and pivotable (180°)



DoVario 1

DoVario ratchet with Pretension force indicator plus strap connector
Item no. 0650 6005

The DoMulti long lever ratchet

Pretension force indicator plus Strap connector

Tag
Item no. 0618 9960

webbing
Item no. 5557 5012

Hook version 1
Safety-lashing hook
Item no. 0651 0091

Strap connector with bolts and swivels
Item no. 0651 0092

Hook version 2
Safety-lashing hook
Item no. 0651 0091

Strap connector
Item no. 0650 0089

DoVario 1

LC direct pull	LC strapping	STF
Two pieces	One piece	
2000 daN	4000 daN	500 daN

Modular system for self-installation

DoVario 2 - Zurrssystem



Strap connector

Swivel hook with
Strap connector

The DoVario Lashing strap modular system consists of:

The long lever (350 mm) and the ideal transmission ratio (4 cog wheels with 20 teeth) of the ratchet enable an easy handling, so that high pretension forces can be achieved. Do2Step is wear resistant, durable and robust. Easy to release tension – safe construction

DoMess 1 pretension force indicator

The integrated patent-registered pretension force indicator DoMess 1 with 50 special disc stirrup enables a constant control of the pretension forces. The pretension forces are displayed in steps of 250 daN. This guarantees an optimal safety during transport!

Strap connector

The short part is not stitched on the ratchet so the length can be flexibly adjusted. Defective lashing systems can easily and quickly be replaced without sewing.

Hooks: optionally available with:

1. Strap connector with swivel hook

The patent-registered swivel hook seamlessly connects the webbing to the lashing strap. Hooks are rotatable (360°) and pivotable (180°) and so they can be optimally adapted to any loading situation. The combination with a lashing chain is also possible.

or:

2. Strap connector with swivel hook, convertible without use of tools (no bolts or eyebolts)

The patent-registered gripping mechanism enables safe grip of the lashing systems in the blink of an eye. The strap connectors quickly enable a grip of the lashing systems. The webbing is fed in and removed without the use of tools.

A webbing that has reached indications for disposal can easily be removed and replaced.

Modular system DoVario 2

	Item no.	Price
DoVario 4000 Lashing strap assembly kit (8m long)	2653 4012	Price on enquiry
Safety lashing hook	0651 0091	
Strap connector with bolts and swivels	0651 0092	
Strap connector	0650 0089	
Tag	0618 9960	
Webbing (100m / any other length available)	5557 5012	
DoVario ratchet with DoMess pretension force indicator and Strap connector	0650 6005	
DoVario ratchet with strap connector (without DoMess)	0650 6105	

Exemplary order

You wish to order:

Material for 10 lashing systems, 8m long, webbing width 50 mm, 2000 daN direct pull/ 4000 daN hoping, two pieces with ratchet and snap hook

That's how your order would look like:

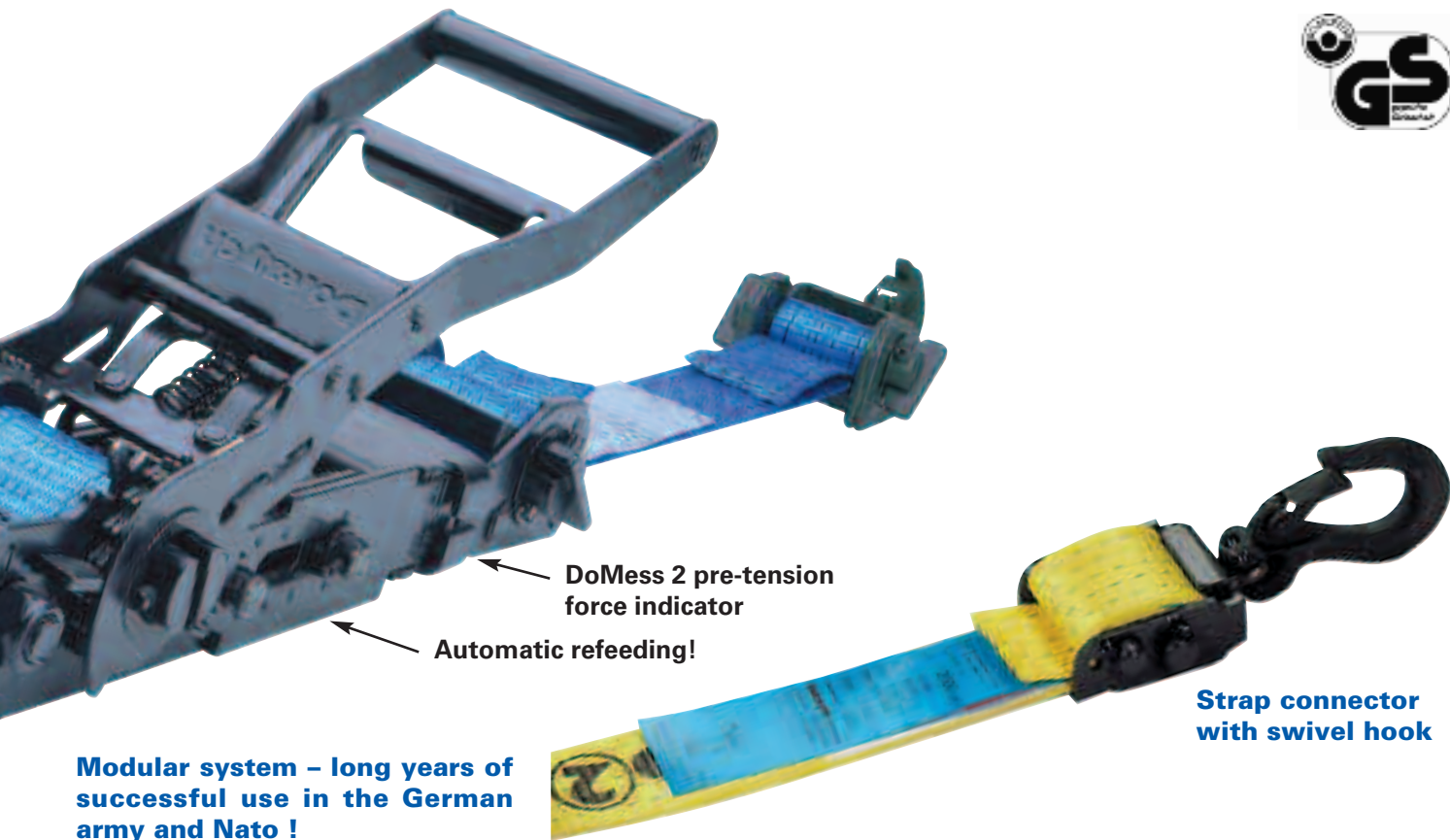
10 pcs. Ratchets Item no. 0651 6005

20 pcs. Snap hooks Item no. 0651 0091

20 pcs. Strap connectors Item no. 0651 0092

20 pcs. Tags Item no. 0618 9960

90 m webbing Item no. 5557 5012



Modular system – long years of successful use in the German army and Nato !

DoVario2 - Modular system

The DoVario modular system conforms to the DoVario 1 system (pages 120 – 121) except the fact that the **DoVario 2** system is additionally equipped with the **Do2Step** long handle ratchet.

Do2Step - long handle ratchet

Controlled pre-release of tension guarantees safe opening of the long handle ratchet.

No whiplash effect.

When opening the ratchet the teeth are not stressed.

The pre-release of tension is done by an extra slide and not by the winding shaft – this means a reduced wear. Due to the automatic refeeding, the ratchet immediately is ready for use again.

Advantages:

- Automatic refeeding of the safety slide
- Highest pretension forces due to long ratchet lever
- Easy to handle – even with gloves
- Highest security standard in cases of long-term stress due to tightened stirrup in the grab handle.
- Highest resistance to bending due to additional reinforcing bolt in the grab handle.
- Particularly ergonomic due to the principle of pulling instead of pushing
- Four cog wheels instead of two for longer endurance
- Can be opened with a minimum of manual force – even when stressed

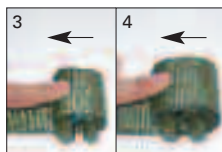
Strap connector:



- Place the tag flush on the webbing ending (facedown).
- Fold the webbing by 180°.



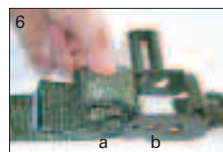
- Laterally insert locking pins into the webbing loop.



- Turn the webbing winder (3) by 180° in the indicated direction.
- Turn the webbing winder (4) by 180° in the indicated direction



- Remove locking pins from the webbing winder.



- Insert webbing winder (a) into case (b).



- Laterally insert locking pins into the borehole of the case and the webbing winder.



- Push splint pin through bolt borehole or drive in spring pins.



Strap connector:



- -Initial position



- Pull back claw.
- Turn back slot spindle into horizontal position.



- Insert webbing



- Insert webbing (15 – 20 cm).



- Fold webbing and turn wing 1,5 times in the clockwise sense.



- Hook is ready to use

Pretension force indicator

DoMess 3[®]

DoMess 3 mobile pretension force indicator

- DoMess 3 is not firmly installed. It is loosely attached to the lashing strap(s)
- High safety standard because you can read off and control the pretension forces of each system.
- Cost-saving because you can minimize the number of lashing systems (page 96).
- This also helps to save time.
- Both sides of the lashing strap can be controlled.

According to DIN EN 12195-2

Scale

The pretension force value can be read off here.



4 seconds for your security

It only takes 4 seconds to detect the pretension force. Just place the force indicator on the tightened lashing strap, move the lever, read off the value. That's all!

Just one device for all 50 mm tie downs – that's mobility



Pretension force indicator

DoMess 1-3®

DoMess 3, chromated mobile pretension force indicator

Item no. 0650 4035 Price on enquiry



DoMess 3, chromated with case

Item no. 0650 4031 Price on enquiry



DoMess 2 for all 50 mm ratchets

DoMess 2 is according to EN 12195-2.

It can alternatively be connected to the ratchet or to the long part.

Item no.

0650 4099

Price on enquiry



DoMess 1 for ropes. Please inquire.

DoMess 3, stainless steel mobile pretension force indicator

Item no. 0650 4033 Price on enquiry



DoMess 3, stainless steel pretension force indicator with case

Item no. 0650 4032 Price on enquiry



DoMess 1 for chains. Please inquire.

Note:
DoMulti ratchet with integrated DoMess2 pretension force indicator, see pp. 112-113



Standard ratchet with removable handle, Chrome-6-free ratchet

DoZurr



Standard ratchet with removable handle

Innovative and cost-saving

That's how it works...

- the handle can be removed after lashing and used on the next ratchet-body for lashing again.
- loosening the ratchet afterwards is done with the handle again.
- ideal for one-way-lashing, on trains and for export-deliverys

Your advantages:

- removable handle
- high thief protection - it is not able to loosen the ratchet without the handle
- weight-reduction which leads to cost-reduction
- same quality as standard ratchet height with removable
- due to low height also usable in tight field conditions

Standard ratchet with removable handle, 50 mm

Item no.	Article - description	Price
2695 4882	Set consisting of 10 x lashing strap DoZurr 4000, with ratchet-body and 2 profile hooks. Short part 0,5 m, long part 7,5 m, with 2 handles	Price on enquiry
2695 4883	Set consisting 50 x lashing strap DoZurr 4000, with ratchet-body and 2 profile hooks. Short part 0,5 m, long part 7,5 m, with 10 handles	
0650 5017	ratchet-body only	
0650 5016	handle only	



Chrome-6-free ratchet

Innovative – ratchet without chrome-6

Chrome-6 is used as a corrosion protection for a long time. But using chrome-6 is not unproblematic. Chrome-6 is unhealthy and a risk for workers in metal-purification.

We are now setting up an example for the reduction of chrome-6 by offering hooks and ratchets with alternative corrosion-protection. workers in metal-purification.

Price on enquiry!





**Lashing straps,
18-25 mm width
with cam buckle
Welded lashing
straps, 18-25 mm**

DoZurr

Lashing strap DoZurr 200, webbing width 18mm, for strapping technique, circumference 4,0m, Please add 2 x L = circumference to the Item number



Lashing capacity (hoping)	Item no.	Width mm	Price	Extra meter
200 daN	1618 0251	18	Price on enquiry	

Lashing strap DoZurr 250-600, webbing width 25mm, for strapping technique circumference 4.0m, Please add 2 x L = circumference to the Item number



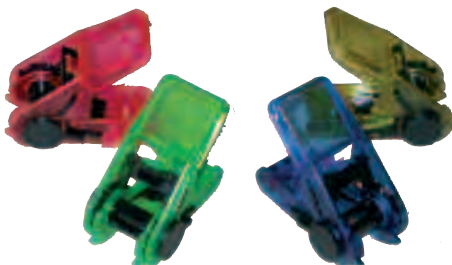
Lashing capacity (hoping)	Item no.	Width mm	Price	Extra meter
250 daN	1625 0251	25	Price on enquiry	Price on enquiry
350 daN	1625 0350	25		
450 daN	1625 0450	25		
600 daN	1625 0600	25		
650 daN	1640 0650	35		

Lashing strap with coloured plastic ratchet, webbing width 25mm, 250daN

Avialable in red, green, blue and yellow.
Lashing capacity 250 daN (strapping).

By default 2,5 m, 4 m and 5 m long.
Ideal for a non professional use.

Please inquire for price list!



Welded lashing systems – the low-priced alternative

- Webbing width 18 – 25mm, 200 – 500 daN
- Due to innovative welding techniques, an “invisible” connection is produced that meets the highest demands concerning the design.
- Same quality standards as sewn connections
- Large delivery quantities available at short notice.
- Comes with company logo, tag or it is designed in your favourite colour.
- Cheaper than the sewn model, particularly when large quantities are ordered.
- Many different designs, also available with plastic fittings

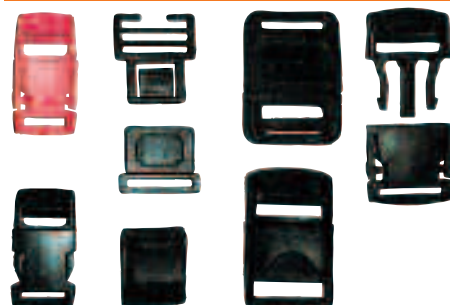
Multifunctional:

- To secure surfboards, bicycles and all kinds of luggage
- To strap long-shaped materials, plants and other goods
- To bundle load components
- Use as a reusable cable clip
- In the field of trade fair construction
- One-way slings
- And your use?

Please inquire for price list!



End fittings for welded lashing systems



Lashing straps with ratchet
Webbing width 25mm

DoZurr

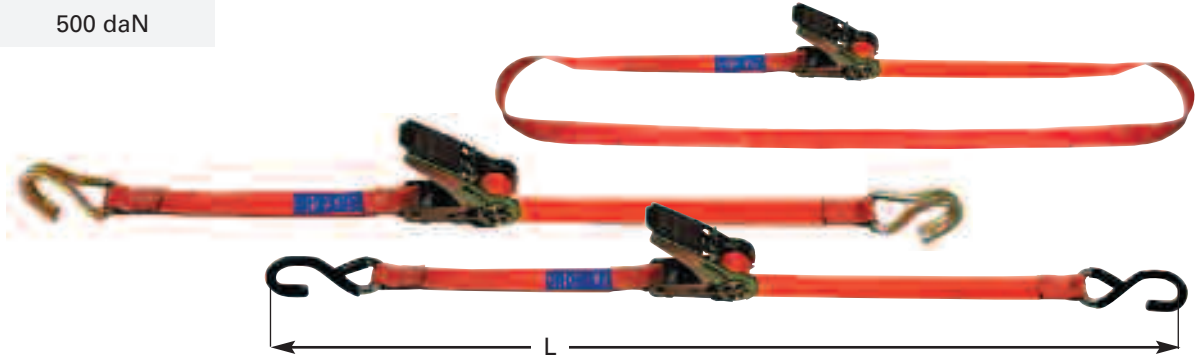


DoZurr 500

LC direct pull	LC strapping
Two pieces	One pieces
250 daN	500 daN

DoZurr 500, webbing width 25mm, Short part=0,3m, long part=3,7m.

Type of hook / fittings lashing strap with 2x	Price/4m	Extra-meter	Item no.
Profile hook	Price on enquiry	Price on enquiry	2625 0534
Snap hook	Price on enquiry	Price on enquiry	2625 0512
S-hook, plastic-coated	Price on enquiry	Price on enquiry	2625 0578
Lashing strap, one piece, without hooks	Price on enquiry	Price on enquiry	1625 0501



DoZurr 1000

LC direct pull	LC strapping
Two pieces	One pieces
500 daN	1000 daN

DoZurr 1000, webbing width 25mm, Short part=0,3m, long part=3,7m

Type of hook / fittings lashing strap with 2x	Price/4m	Extra-meter	Item no.
Profile hook	Price on enquiry	Price on enquiry	2625 1034
Delta stirrup	Price on enquiry	Price on enquiry	2625 1056
Snap hook	Price on enquiry	Price on enquiry	2625 1012
Lashing strap, one piece, without hooks	Price on enquiry	Price on enquiry	1625 1000



Profile hook long	Delta stirrup	Snap hook
Item no. 0610 0002	Item no. 0602 5002	Item no. 0635 0005

Further possible combinations

Profile hook, short design Item no. 0602 5003	Price on enquiry	Flat hook Item no. 0602 5015	Price on enquiry
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Claw hook Item no. 0602 5005	Price on enquiry	Flat hook with spring safety Item no. 0602 5007	Price on enquiry
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Ratchet lashings

Webbing width 35mm

DoZurr

DoZurr 2000

LC direct pull	LC strapping	STANDARD TENSIONING FORCE
Two pieces	One pieces	
1000 daN	2000 daN	220 daN

Profile hook (35 mm)	U-profile hook	Snap hook
Item no. 0635 0002	Item no. 0635 0003	Item no. 0635 0005

One or two piece lashing strap with ratchet and profile hook. Stainless steel version also available. Please inquire!



DoZurr 2000, webbing width 35 mm, Short part=0.3m, long part=5,7m



Type of hook/end fittings	Price/6m	Extra-meter	Item no.
lashing strap with 2x			
Profile hook	Price on enquiry	Price on enquiry	2635 2056
U-profile hook			2635 2012
Snap hook			2635 2034
Profile hook with safety clip			2635 2058
Ratchet lashing, one piece, without hooks			1635 2000



Lashing straps for car transport

Webbing width 35mm

DoZurr

Lashing strap for transportation of cars and small transporter according to VDI 2700 part 8.1



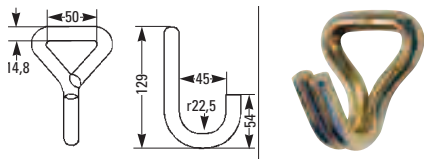
DoZurr 3000, Lashing strap for car transports, webbing width 35mm, Short part=0,15m, long part=2.45m

Type of hook/end fittings	Price/2,60m	Item no.
lashing strap with 2x		
Profile hook	Price on enquiry	2635 1009
Finger profile hook	enquiry	2635 1012

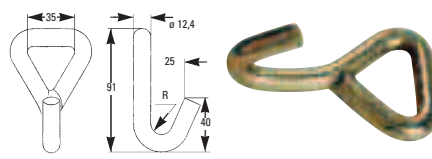


With extra profile hook and 3 small plastic blocks

Profile hook for 35 mm webbing width

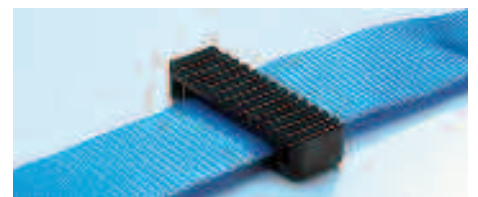


Finger profile hook for 35 mm webbing width

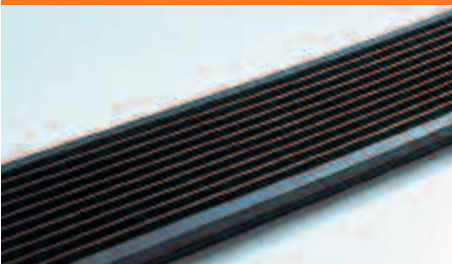


Small plastic blocks, webbing width 35mm and 50mm

Please inquire for price



Solid rubber hose as a slip-off stoppage



Loosely attached to the webbing, it enables an even distribution of the pretension forces!
Webbing width 35 mm, 0,75 m long

Item no.	Price/unit
0650 0056	on enquiry

Webbing controller



Loosely attached to the webbing, it enables an even distribution of the pretension forces!
Webbing width 35 mm

Item no.	Price/unit
1635 9999	on enquiry

DoZurr 3000, webbing width 35mm

LC direct pull	LC strapping	STANDARD TENSIONING FORCE
Two pieces	One pieces	
1500 daN	3000 daN	220 daN





Load securing for trucks according to VDI 2700 part 8.2

Lashing straps for truck transport Webbing width 50mm

DoZurr

Lashing strap for heavy commercial vehicles according to VDI 2700 Page 8.2

DoZurr 3000, Lashing strap for truck transports, webbing width 50mm, Short part=0.15m, long part=2.45m

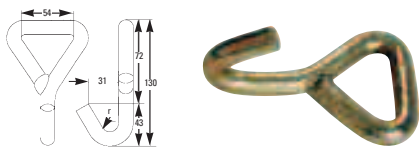


Type of hook/end fittings	Price/2,60m	Item no.
lashing strap with 2x		
Finger profile hook	Price on enquiry	2650 3334
Finger profile hook with large wrench opening	Price on enquiry	2650 3234

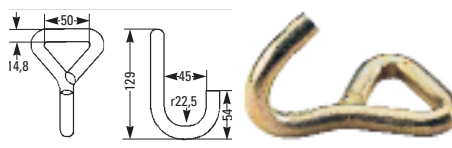


With extra profile hook and 3 small plastic blocks

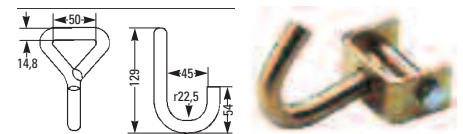
Finger profile hook for 50mm webbing width



Finger profile hook with large wrench opening, 50mm



Finger profile hook with large wrench opening, swivel version 50mm



Solid rubber hose as a slip-off stoppage



Loosely attached to the webbing, it enables an even distribution of the pretension forces!
Webbing width 35 mm, 0,75 m long

Item no.	Price/unit
0650 0056	on enquiry

Webbing controller



Loosely attached to the webbing, it enables an even distribution of the pretension forces!
Webbing width 35 mm

Item no.	Price/unit
1635 9999	on enquiry

Finger profile hook with large wrench opening, with swivel

Item no. 0635 0009	Price on enquiry
--------------------	------------------

DoZurr 3000, webbing width 35mm

LC direct pull	LC strapping	Standard Tensioning Force
Two pieces	One pieces	
1500 daN	3000 daN	220 daN

Lashing straps 25 mm webbing width, for motorcy- cle lashing

DoZurr



Motorcycle lashing strap for auto transport trains

Type of hook/end fittings	Price	Item no.
lashing strap with 2x S-hook, 2 m long Coupler webbing	Price on enquiry	2625 0751 1600 0003



25mm motorcycle lashing strap, with hand loop and s-hook, 2m long for transport on trailers or similar

Type of hook/end fittings	Price/2m	Item no.
Motorcycle lashing strap with s-hook	Price on enquiry	2625 0753



Lashing point, webbing width 25mm, circumference 60cm

To create a lashing point, just lay the loop around the motorcycle and tighten the lashing strap.

Item no.	Price/unit
1600 0008	on enquiry



Net for motorcycle luggage rack, dimensions 300 x 300mm, with 4 cam buckles

- Perfect securing of luggage
- 4 adjustable cam buckle straps enable a high variability

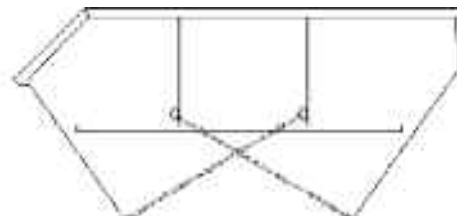
Item no.	Price/unit
1600 0097	on enquiry





Lashing straps for containers

DoZurr



Container lashing in direct pull

The load protection of containers is only allowed in direct lashing (VDI 2700, 17)

The often uses Y-lashing is not enough and therefor no longer allowed

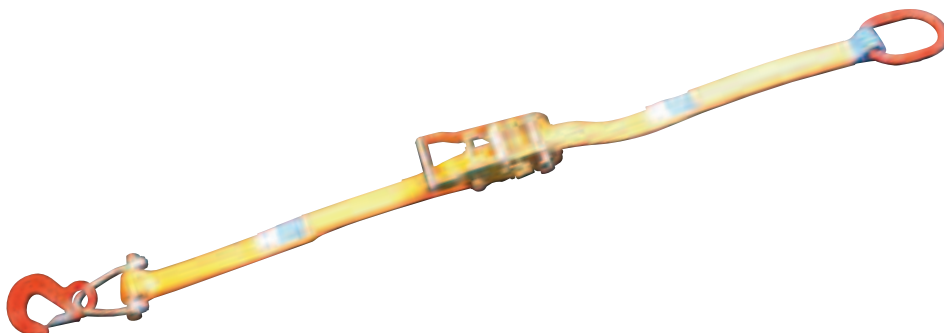
Container lashing system, 50 mm webbing width



2500 daN direct pull, 2.50 m long, on the one side master with link at the otherside triangle with security load hook.

Item no.	Unit price
2650 5016	on enquiry

Container lashing system, 50 mm webbing width



4000 daN direct pull, 2.50 m long, on the one side with master link at the otherside triangle with eye hook.

Item no.	Unit price
2650 8116	on enquiry

Container lashing system with lashing chain

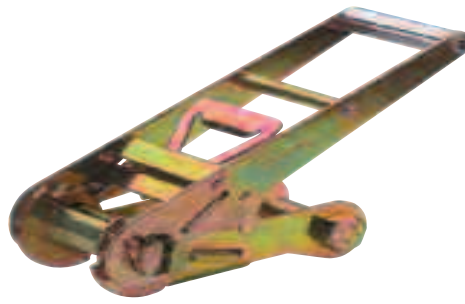


2.50 m long, on the one side with master link at the otherside with clevis hook.

Item no.	nominal-size of chain mm	Lashing capacity daN	Unit price 2,50 m	Price per meter
2985 2801	8 - 8	4.000	on enquiry	on enquiry
2985 1201	10 - 8	6.300	on enquiry	on enquiry

Ratchets, hooks and special fittings

DoZurr



Type	Webbing width	Item no.
Standard ratchet	100 mm LC 5000 daN	0610 1000



Type	Webbing width	Item no.
Standard ratchet	75 mm LC 5000 daN	0675 1000



Type	Webbing width	Item no.
DoMulti long lever ratchet	50mm	0650 6003 LC 2500 daN



Type	Webbing width	Item no.
Do2Step long lever ratchet	50mm	0650 5077 LC 2500 daN



Type	Webbing width	Item no.
DoPremium long lever ratchet	50mm	0650 5003 LC 2500 daN



Type	Webbing width	Item no.
Standard ratchet	50mm	0650 8000 LC 4000 daN



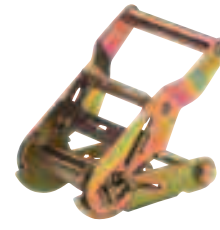
Type	Webbing width	Item no.
DoPremium Ratchet	50 mm	0650 5010 LC 2500 daN



Type	Webbing width	Item no.
Standard ratchet	50 mm	0650 5000 LC 2500 daN



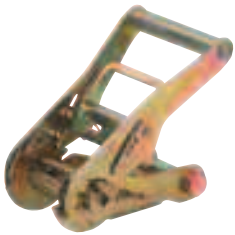
Type	Item no.
Standard ratchet For 50mm webbing width	0650 3000 LC 1500 daN



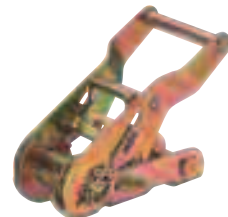
Type	Item no.
Standard ratchet For 50mm webbing width	0659 3000 LC 1500 daN



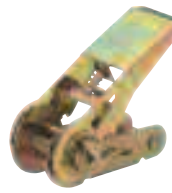
Type	Item no.
Standard ratchet For 35mm webbing width	0635 2000 LC 1500 daN



Type	Item no.
Standard ratchet For 35 mm webbing width	0635 2003 LC 1000 daN



Type	Item no.
Standard ratchet For 25mm webbing width	0625 1500 LC 500 daN



Type	Item no.
Standard ratchet For 25mm webbing width	0625 0800 LC 250 daN



Stainless steel ratchets and profile hooks for 25, 35 and 50 mm lashings straps available upon request!



Type	Item no.
Tensioner buckle For 25 mm webbing width	0625 0504



Type	Item no.
Tensioner buckle For 25mm webbing width	0625 0001



Type	Webbing width	Item no.
Profile hook with Delta stirrup	50 mm	0650 1009



Webbing width	Item no.
35mm	0635 0010



Webbing width	Item no.
50mm	0650 1006



S-Hook	Item no.
25mm	0605 0003



S-Hook with PVC coating	Item no.
	0605 0002

Hooks for trailers Special connecting elements

DoZurr

Special connecting elements



**Buckle for 50 mm webbing width,
for seamless connection**



**Screwable triangle for 25, 35 and
50 mm webbing width**



**U-profile multipurpose hook for
50 mm ratchet**

Hooks for Sommer / Ackermann-Frühauf-System *

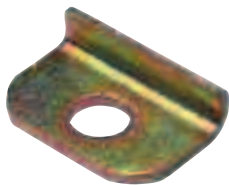
Item no. 0615 5097

Hooks for Sommer / Ackermann-Frühauf-System *

Item no. 0615 5098

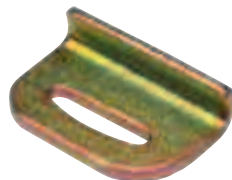
Hooks for Sommer / Ackermann-Frühauf-System *

Item no. 0650 1434



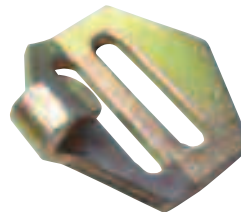
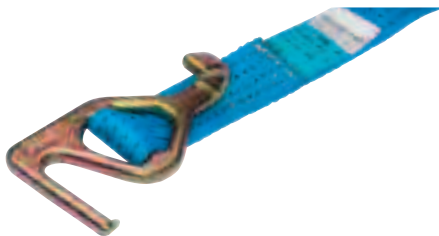
Hooks for Kögel-System*

Item no. 0650 0022



Hooks for Krone external frames*

Item no. 0650 0025



**Further elements or production
according to your requirements
on demand.**

***Special hooks for special las-
hing systems, please inquire
about prices.**



**Agrafes for 25, 35 and 50 mm webbing
width, for compact lye forming
Please inquire for further details**

Heavy duty load securing for diagonal lashing, webbing width 50mm

PowerLash



PowerLash 8000

LC
indirect pull



4000 daN

PowerLash 8000

- Compared to a 3,5 m lashing chain (8 mm) with ratchet load tensioner and the same LC (4000 daN) the difference in weight is 50%. When using lashing chain tensioners the weight reduction is 35%. The webbing width is 50 mm only!
- Compared to the ratchet load or the lashing chain tensioner system the acquisition costs are reduced by 65%.
- The textile webbing enables an easy, quick and comfortable handling with constant quality standards. The lashing strap is 5,3mm strong and wear resistant.

PowerLash 8000, webbing width 50 mm, single layer webbing Short part =0,5m; long part 3,5m

Type of hook/end fittings	Price/4m	Extra meter	Item no.
lashing strap with 2x			
Triangle snap hook	Price on enquiry	Price on enquiry	2650 8112
Profile hook			2650 8034
Triangle			2650 8056
DoConnect-hook			2650 8097

Heavy duty load securing with DoConnect-hook possible



Webbing width 50 mm only... the textile lashing chain!!!

PowerLash 10000

LC
direct pull



5000 daN

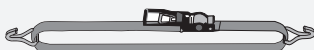
PowerLash 10000, webbing width 50mm, double layer webbing single-sided fixed, Short part =0,5m; long part 3,5m long

Type of hook/end fittings	Price/4m	Extra meter	Item no.
lashing strap with 2 x			
Triangle snap hook	Price on enquiry	Price on enquiry	2650 5101
Triangle			2650 5165



PowerLash 8000

LC
direct pull



4000 daN

PowerLash 8000, one-parted, webbing width 50mm, with loose profile hook

Type of hook/end fittings	Price/4m	Extra meter	Item no.
One-parted with 2x profile hook	Price on enquiry		2650 8234





Heavy duty load securing for diagonal lashing, webbing width 75 and 100 mm

PowerLash



Caution:
For heavy loads, lashing systems can only be used for diagonal lashing. On the tag, no STANDARD TENSION FORCE (S_{TF}) value is indicated.

PowerLash 10000, webbing width 75 mm, single layer webbing
Short part =0,5m; long part 3,5m

Type of hook/end fittings	Price/4m	Extra meter	Item no.
lashing strap with 2x Triangle snap hook	Price on enquiry	Price on enquiry	2675 0002
Profile hook			2675 0034
U-Profile hook			2675 0078



PowerLash 10000

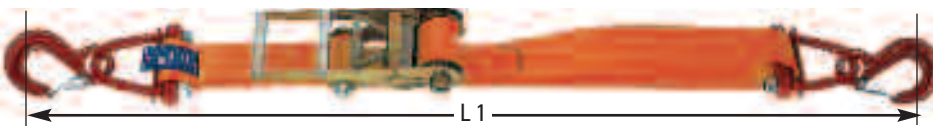
LC
direct pull



5000 daN

PowerLash 20000, webbing width 75 mm, double layer webbing, single-sided fixed, Short part=0,5m, long part=3,5m

Type of hook/end fittings	Price/4m	Extra meter	Item no.
lashing strap with 2x Triangle snap hook	Price on enquiry		2675 0001



PowerLash 20000

LC
direct pull



10000 daN

PowerLash 10000, webbing width 100 mm, single layer webbing
Short part =0,5m; long part 3,5m

Type of hook/end fittings	Price/4m	Extra	Item no. meter
lashing strap with 2x Triangle snap hook	Price on enquiry		2610 0002



PowerLash 10000

LC
direct pull



5000 daN

Lashing chains with DoClick grade 80 VDI 2701, DIN EN 12195-3

PowerLash



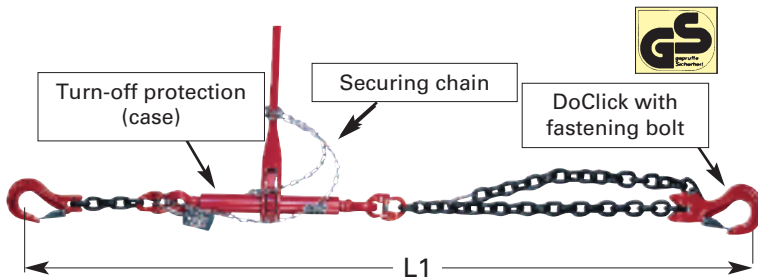
With safety bolt

New lashing hook with integrated shortening device and safety bolt for lashing chains!
Helps to save material, time and money. This component serves as lashing hook and reducer as well. No extra reducing claw is necessary.

Function:
DoClick is hooked into the long ending of the pretensioner chain.

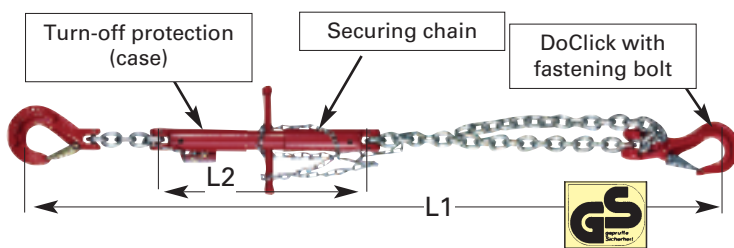
The safety bolt represents the protection against an unintentional loosening of the reduction device (according to EN 12195-3).

DoClick L-140, with ratchet tensioner



Item no.	Nominal size of chain mm	Lashing capacity daN	S _{TF} daN	3,50 m Price/unit	Price extra meter
2982 0801	8-8	4.000	1000	Price on enquiry	Price on enquiry
2982 1001	10-8	6.300	1575		
2982 1301	13-8	10.000	1500		
2982 1601	16-8	16.000	2400		

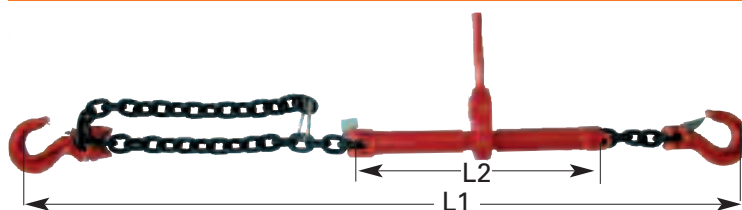
DoClick SP with spindle tensioner



Item no.	Nominal size of chain mm	Tensioner closed L2 min.	Tension length mm	Lashing capacity daN	S _{TF} daN	Price/3,50 m	Price/extra meter
2981 0601	6-8	230	90	2.200	550	Price on enquiry	Price on enquiry
2981 0801	8-8	330	140	4.000	1000		
2981 1001	10-8	460	220	6.300	1575		
2981 1301	13-8	520	250	10.000	1500		
2981 1601	16-8	540	250	16.000	2400		

Lashing chain tensioner with closed case and turn-off protection, protected against corrosion and pollution
High quality design, also appropriate for lifting loads

DoClick L-160, with comfort ratchet tensioner



Item no.	Nominal size of chain mm	Tensioner closed L2 min.	Tension length mm	Lashing capacity daN	S _{TF} daN	Price/3,50 m	Price/extra meter
2986 0801	8-8	330	140	4.000	1000	Price on enquiry	Price on enquiry
2986 1001	10-8	460	220	6.300	1575		
2986 1301	13-8	520	250	10.000	1500		

Ratchet load tensioner with closed case, protected against corrosion and pollution
Easy to handle due to pawl.



When it comes to combining different load securings, (chains/belt tie downs) the load-bearing stabilities must be conforming to each other.

Default length of lashing chains L-140, L-160 + SP, L1 = 3500mm
By default with securing chain and turn-off protection. Each length available!



Lashing chains, grade 80 VDI 2701, DIN EN 12195-3

PowerLash

Dolezych – safety value diagonal lashing

Dolezych-safety value diagonal lashing

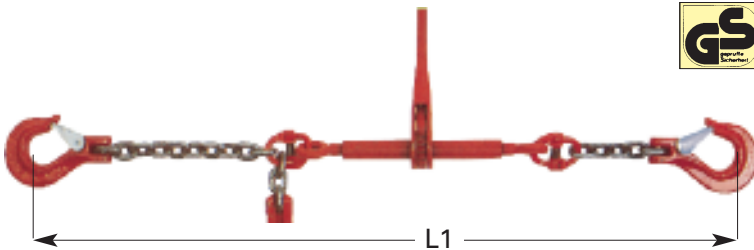
Dolezych- safety value diagonal lashing
The carrying loads that has to be secured with 4 lashing chains is to be read off in the adjacent table.

For the entire table of the Dolezych-simple method see page 93.

Lashing chains

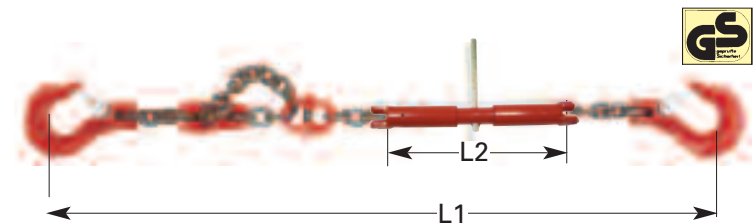
Lashing capacity daN	Nominal strength of chain mm	Coefficient of kinetic friction μ lashing capacity t		
		0.2	0.3	0.6
2200	6	2000	4000	14000
4000	8	4000	8000	30000
6300	10	7000	12000	46000
10000	13	10000	20000	50000
16000	16	16000	30000	-

PowerLash with ratchet tensioner with shortening claws with safety snap device



Item no.	Nominal size of chain mm	Lashing capacity daN	S_{TF} daN	3,50 m Price/unit	Price extra meter
2985 0601	6-8	2.200	550	Price on enquiry	Price on enquiry
2985 0801	8-8	4.000	1000		
2985 1001	10-8	6.300	1575		
2985 1301	13-8	10.000	1500		
2985 1601	16-8	16.000	2400		

PowerLash with spindle tensioner with shortening claws with safety

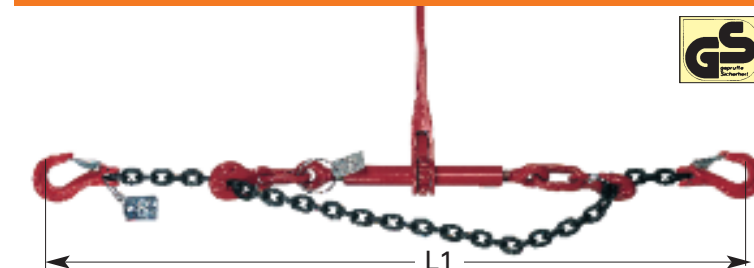


Item no.	Nominal size of chain mm	Tensioner closed L2 min.	Tension length mm	Lashing capacity daN	S_{TF} daN	Price/3,50 m	Price/extra meter
2983 0601	6-8	230	90	2.200	550	Price on enquiry	Price on enquiry
2983 0801	8-8	330	140	4.000	1000		
2983 1001	10-8	460	220	6.300	1575		
2983 1301	13-8	520	250	10.000	1500		
2983 1601	16-8	540	250	16.000	2400		

* Lashing chain tensioner, special quality with higher LC

4983 1301*	13	445	230	13.000	3100 daN	Price o. r.
4983 1601*	16	554	280	20.000	3100 daN	Price o. r.

PowerLash L-150 ratchet tensioner with separate tensioner chain



Item no.	Nominal size of chain mm	Lashing capacity daN	S_{TF} daN	3,50 m Price/unit	Price extra meter
1953 0601	6-8	2.200	500	Price on enquiry	Price on enquiry
1953 0801	8-8	4.000	1000		
1953 1001	10-8	6.300	1575		
1953 1301	13-8	10.000	1500		
1953 1601	16-8	16.000	2400		

DoComfort lashing chain. grade 100, PowerLash L-140/S with shortening claw with security device



Item no.	Nominal strength of chain mm	Lashing capacity daN	Chuck capacity mm	Price/3,50m	Extra meter
4985 0601	6-8	2800	-	Price on enquiry	Price on enquiry
4985 0801	8-8	5000	607-757		
4985 1001	10-8	8000	661-811		
4985 1301	13-8	13400	733-893		

Lashing-chain grade 120 DoKett-HitPro

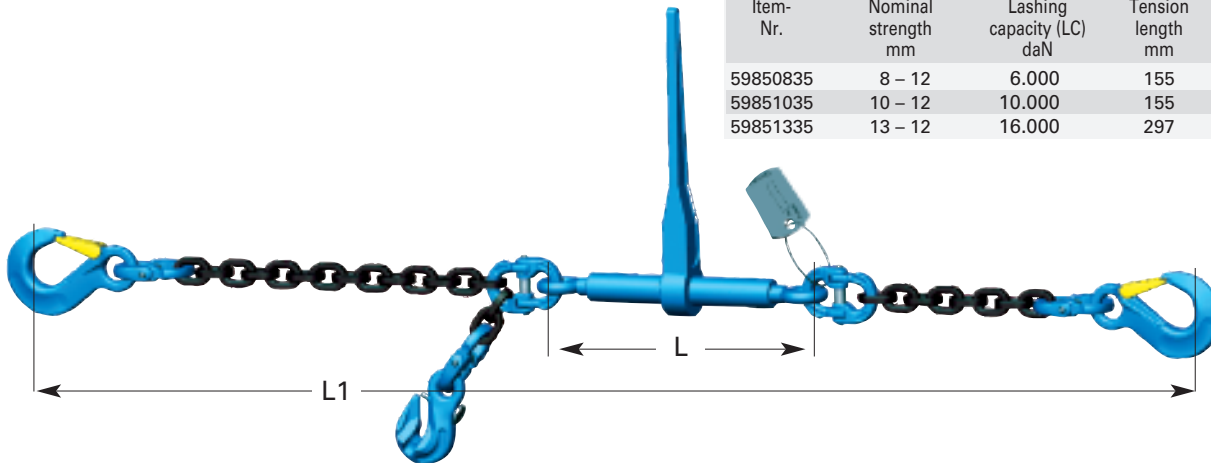
Ratchet tensioner Grade 100

PowerLash



DoKett-HitPro lashing-chain with ratchet load tensioner in grade 120

Item-Nr.	Nominal strength mm	Lashing capacity (LC) daN	Tension length mm	Tensioner (closed) L mm	Price each
59850835	8 - 12	6.000	155	346	Price on enquiry
59851035	10 - 12	10.000	155	358	
59851335	13 - 12	16.000	297	571	



The new DoKett-HitPro lashing-chain in grade 120 allows higher tension forces at the same nominal size compared to grade 80 and 100 chains.

Through intelligent use of materials it is possible to improve essential characteristics (e.g.: bending strength of the chain compared to general round-steel-chains).

Your advantage: higher lashing capacity and weight reduction at the same nominal size (see table).

For easy distinction purposes the DoKett-HitPro-chain is specially black powdercoated and its components are blue powdercoated. Furthermore the chain is specially corrosion-protected. Extreme temperature resistance from -60°C up to 200°C at 100% lashing capacity and from 201°C up to 300°C at 60% lashing capacity.

The identification-tag shows the important information about lashing capacity and standard-tension-force.

The parallel hook with safety guarantees an easy way of shortening to adjust the chain flexible.

The optimized ratchet load tensioner enables high pre-tension-forces.

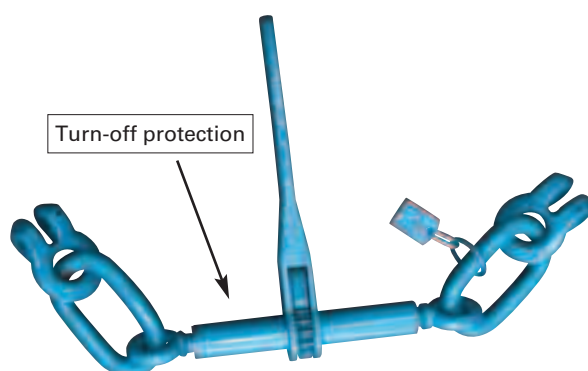
Default length of lashing-chain L1 = 3500 mm with securing chain and turn-off protection. Each length available.

Comparison of LC, Chains grade 80, 100 and 120

Nominal strength of chain	Grade 80	Grade 100	Grade 120
	Lashing capacity daN	Lashing capacity daN	Lashing capacity daN
8 mm	4000	5000	6000
10 mm	6300	8000	10000
13 mm	10000	13400	16000

DoComfort ratchet tensioner, grade 100, with chain connectors on both sides

Item no.	Nominal size of chain mm	Lashing capacity daN	Tensioner (closed) length/mm	Tension length/mm	Price/unit
4980 1808	8 - 10	5.000	607	150	Price on enquiry
4980 1810	10 - 10	8.000	661	150	
4980 1813	13 - 10	13400	733	160	





**Chain tensioner
grade 80 + 100,
VDI 2701, DIN EN
12195-3**

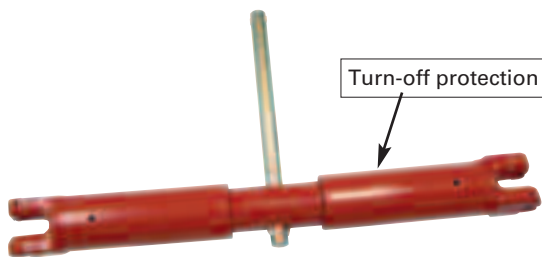
PowerLash

! The overwinding of the turn-off protection damages the tensioner element. Please follow the instructions for use!

Lashing chain tensioner (single) *

Item no.	Nominal strength of chain mm	Tension length mm	Lashing capacity daN	Carrying capacity t Lifting chain t	Price/unit
0380 1411	6-8	90	2200	1.12	Price on enquiry
0380 1412	8-8	140	4000	2.00	
0380 1413	10-8	220	6300	3.15	
0380 1414	13-8	250	10000	5.30	
0380 1415	16-8	270	16000	8.00	

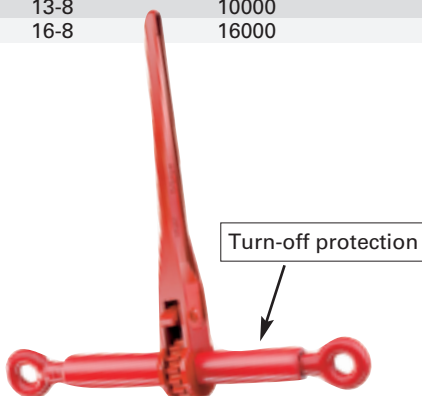
* Can also be connected to a lifting chain for lifting purposes. Accurate length adjustment.



Turn-off protection

Ratchet tensioner L-140, without hook

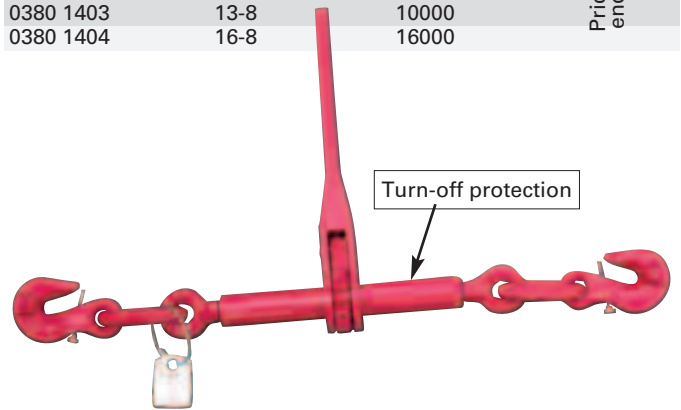
Item no.	Nominal strength of chain mm	Lashing capacity daN	Price/unit
0381 1400	6-8	2200	Price on enquiry
0380 1402	8-8	4000	
0380 1442	10-8	6300	
0381 1402	13-8	10000	
0381 1403	16-8	16000	



Turn-off protection

Ratchet tensioner L-140 (single) with parallel hook with safety snap device

Item no.	Nominal strength of chain mm	Lashing capacity daN	Price/unit
0381 1400	6-8	2200	Price on enquiry
0380 1401	8-8	4000	
0380 1432	10-8	6300	
0380 1403	13-8	10000	
0380 1404	16-8	16000	

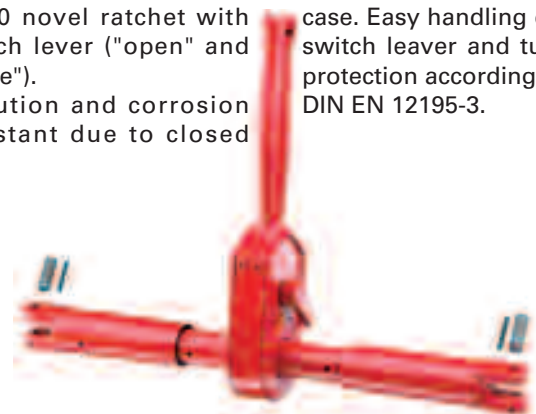


Turn-off protection

Comfort ratchet load tensioner L-160 *

Item no.	Nominal strength of chain mm	Tension length mm (ca.)	Lashing capacity daN	Carrying capacity t Lifting chain t	Price/unit
0380 1601	8-8	140	4000	2,00	Price on enquiry
0380 1602	10-8	220	6300	3,15	
0380 1603	13-8	250	10000	5,30	

L-160 novel ratchet with case. Easy handling due to switch lever ("open" and "close"). Pollution and corrosion resistant due to closed



Ratchet load tensioner SCC-Plus, with fold away lever

Item no.	Nominal strength mm	Tension length mm (ca.)	Lashing capacity daN	Price each
0380 1841	8	150	4000	Price on enquiry
0380 1842	10	150	6300	
0380 1843	13	150	10000	

Ratchet load tensioner SCC-Plus, with fold away lever, The lever especially compactly and well stowable away. With a padlock the lever easily to safe against theft



Lashing winches

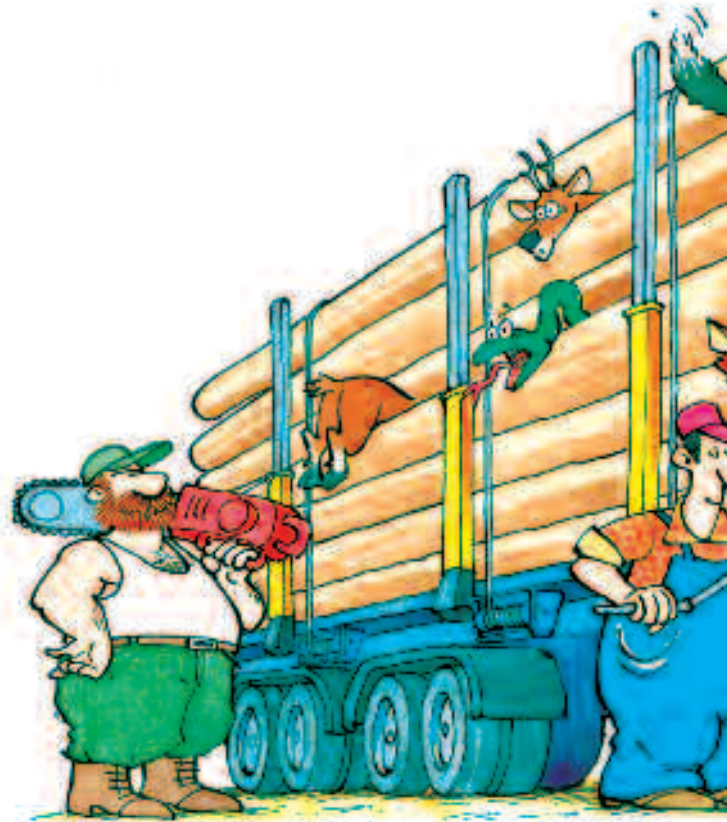
DoZurr

Dolezych lashing winches can be used as belt lashing winches or as wire rope lashing winches.

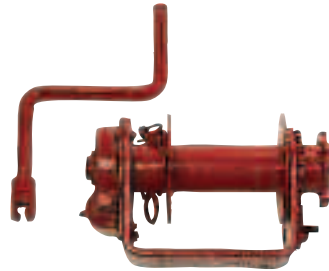
The lashing winches are firmly screwed on or welded onto the vehicle frame. According to the type, they are operated by a hand lever or by a detachable gear mechanism.

Dolezych lashing winches are appropriate for wire ropes with a maximum diameter of 9mm.

Lashing winches for stronger wire ropes are available on request.



Belt and wire rope lashing winches * with integrated gear mechanism (permitted in Germany)



Specifications:

Pretension force 500 daN
 Admissible tension force 2000 daN
 Belt dimensions 50 x 3 mm
 Maximum diameter of wire rope 9 mm
 Weight 10 kg

Dimensions of the winch:

Total height: 176 mm
 Overall width: 310 mm
 Distance between the bottom edge of the backplate and the central point of the barrel: 120 mm
 Hole pattern of the backplate 65 x 125 mm
 Hole diameter 10,5 mm
 External diameter of the barrel 57 mm
 Inner width between the flange discs of the barrel 110 mm

Belt and wire rope lashing winches (without hand lever)

Item no.	Price
0600 0005	on enquiry

Detachable hand lever

Item no.	Price
0600 0010	on enquiry

Belt and wire rope lashing winches * with attachable gear mechanism (permitted in Germany)



Specifications:

Pretension force 500 daN
 Admissible tension force 2000 daN
 Belt dimensions 50 x 3 mm
 Belt reserve 3m
 Maximum diameter of wire rope 8 mm
 Wire rope reserve 9 m
 Crank pressure 18 daN
 Transmission ratio 25:1

Winch

Item no.	Price
0600 0007	on enquiry

Detachable gear mechanism

Item no.	Price
0600 0008	on enquiry

* Lashing winches with self-locking and blow-back proof worm gear according to the regulations of the employers' liability insurance association (corresponding to the accident prevention regulation BGV D8)



Belt and wire rope lashing winches, Typ EZ with patented gear-wheel thread



Specifications:

Pretension force	680 daN
Admissible tension force	2000 daN
Belt dimensions	50 x 3 mm
Belt reserve	3 m

Winch

Item no.	Price
0600 0095	on enquiry

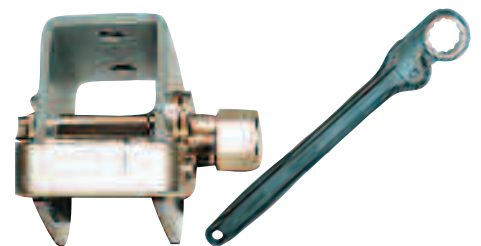


Belt winch (without kickback safety, not permitted in Germany)

Specifications:

Admissible tension force	4000 daN
Pretension force	500 daN

Item no.		Price
0600 0006	Belt winch	on enquiry
0600 0012	Tensioner	on enquiry



Always mind sharp edges: Use DoLex sharp-edge protection corners (see page 46 ff)

Compressed air lashing-winch

This winch-system has proved itself many times in Canada for woodtransporting. The robust winch is easy to handle and saves time while securing load. It is powered by compressed air. The pre-adjusted lashing-strength is controlled and, if necessary, automatically corrected while transport.

Your advantages:

- no winch crank
- flexible adjustment of lashing-forces
- automatic correcting of lashing-strength during the transport, no need for the driver to leave the vehicle
- exclusive selling via Dolezych in Europe



Compressed air lashing-winch

Item-Nr.	Price each
0600 0027	on enquiry





Lashing wire ropes are easy to handle due to the flexible rope construction 6 x 37!

Lashing wire ropes according to DIN EN 12195-4

DoZurr

Lashing wire ropes according to DIN EN 12195-4

Lashing wire ropes according to DIN EN 12195-4 can be optionally used for perfect load securing. Lashing ropes are flexible i.e. they can be easily wrapped around the loads. They are particularly recommended for compressible goods (e.g. reinforcement steel meshes). Due to the high admissible tension force and the robustness compared to a textile lashing devices, wire ropes can be a better option. When frictional lashing a load, the combination with lashing winches enables high pretension forces (ST_F). Lashing wire ropes are appropriate for all types of lashing techniques, and there are one-parted devices (e.g. on a rope winch that is firmly fixed to the vehicle) as well as two-parted devices (e.g. equipped with a lashing strap or a chain hoist). Don't forget to use sharp edge protection devices.



Tensioner elements for lashing wire ropes

Lashing wire ropes can be tightened by means of a lashing strap, chain hoist, lashing chain or by means of rope and webbing winches that are firmly fixed to the vehicle.



The strength and the type of the lashing wire rope is to be chosen in accordance to the specifications of your vehicle:

The rope must be a 6 strand ordinary lay rope with fibre or steel strand core (144 single wires at least) or an 8 strand ordinary lay rope with steel strand core and 152 single wires at least. The single wires must be according to the strength category 1770.



Always mind sharp edges: Use DoLex sharp-edge protection corners (see page 44 ff)

Lashing wire ropes according to DIN EN 12195-4

DoZurr

The fittings of the lashing rope must be chosen in accordance to the lifting points of your vehicle:



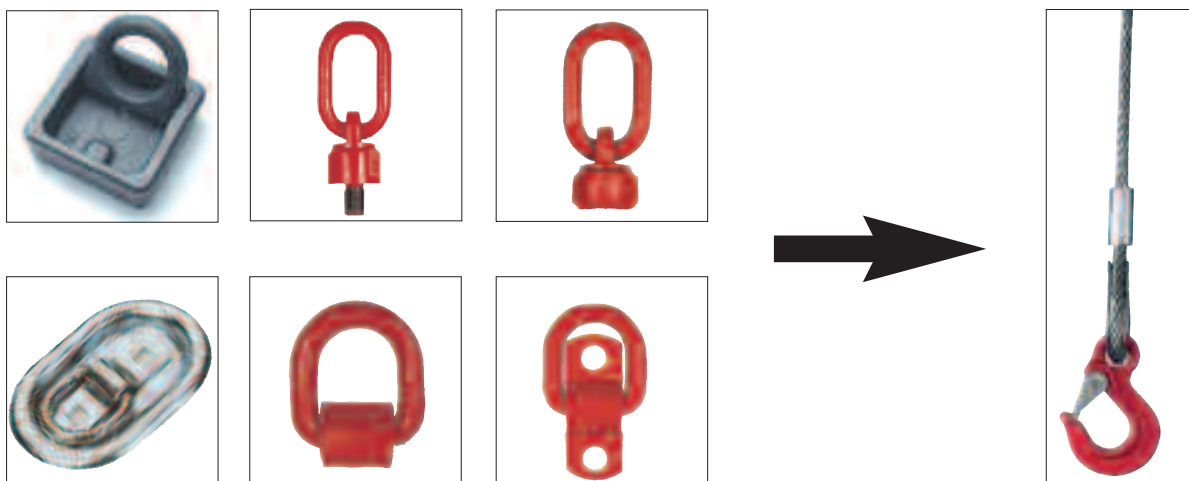
Lashing wire rope and ratchet lever hoist as tensioner elements

These combinations lashing point/ lashing ropes have proven themselves in practical use:

If your vehicle is equipped with **lashing hooks**, you should choose a type with loop, thimble or ending link.



If your vehicle is equipped with **lashing eyes** or **lifting points**, a rope with safety snap hooks is the right choice for you.



Lashing wire ropes are manufactured exactly according to your requirements.

Loops, thimbles end end fittings are firmly pressed onto the rope.

On demand, Flemish eye slings or splices are available. Please inquire.





Your advantages:

- Special design with 222 single wires (6 x 37 FC) other types are available
- Can be easily wrapped around the load.
- Ideal for compressible goods (e.g. reinforcement steel meshes).
- High durability
- High LC
- Appropriate for different lashing techniques

The use of screw clamp for the manufacturing of end fittings for lashing wire ropes is not allowed.



Ready-made lashing wire ropes

Type:	Loop	Thimble and master link	Thimble	Thimble and safety hook	Dolezych- safety value for diagonal lashing				
*B Please add the diameter to the article number. Default lengths are 4, 6 and 8 m.					The carrying capacity that has to be secured with 4 lashing wire ropes is to be read off in the following table. For the entire table of the Dolezych-simple method see page 93.				
Lashing capacity LC	Nominal wire strength in mm	0263 .. 01*	Price/4m 0264 .. 01	0266 .. 01	0265 .. 01	Extra rmeter	Coefficient of kinetic friction μ Carrying capacity t		
							0,2	0,3	0,6
1120	08						1120	2240	6720
1760	10						1750	3500	10500
2500	12	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	2500	5000	15000
3500	14						3500	7000	21000
4500	16						4500	9000	27000
5650	18						5650	11300	33900
7000	20						7000	14000	42000

Lashing wire ropes with a maximum diameter of 40 mm are available.

Lashing wire ropes can also come with pretension force indicators. Please inquire.



Sharp edge protection with magnet



Item no.	Nominal size	Ø rope max.x.	Price/unit
0390 1025	S I	25	on enquiry

Lashing Straps for cargo tracks 50 + 25 mm

DoZurr



Lashing straps for cargo tracks

LC
in direct pull



750 daN

Variants



with ratchet



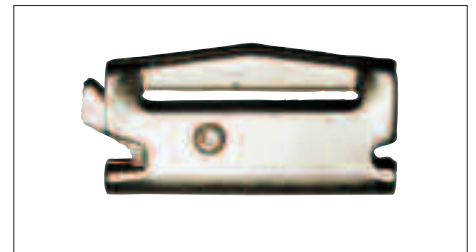
with overcenter buckle

Polyester strap with minimal elongation. Scuffing and abrasion resistant, surface protectant. Can be printed with your company name or logo if desired.

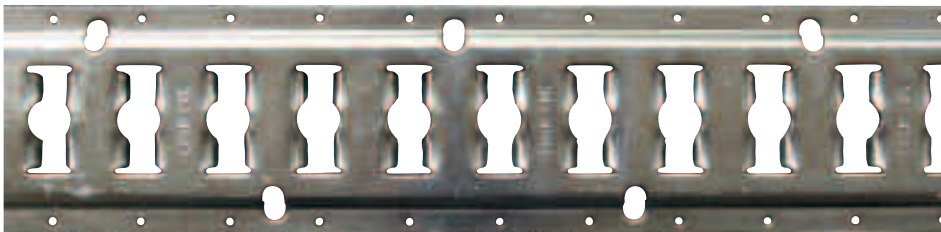
Lashing strap with universal cargo track fitting 1826, 50 mm width, for cargo tracks, cf. pages 148-149.

Item-No.	Variant	Price 3,50 m Length	Price add'l meter
2650 1512	with ratchet	Price on enquiry	Price on enquiry
2651 1512	with overcenter buckle		
2652 1512	with cam buckle		
2653 1512	with push buckle		

Universal cargo track fitting Typ 1826
Item-No. 0615 1826



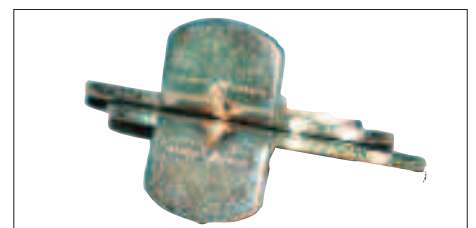
Please inquire about prices.



Lashing strap with universal cargo track fitting 1817, 50 mm width, for cargo tracks, cf. pages 148-149.

Item-No.	Variant	Price 3,50 m Length	Price add'l meter
2650 1534	with ratchet	Price on enquiry	Price on enquiry
2651 1634	with overcenter buckle		
2652 1534	with cam buckle		
2653 1534	with push buckle		

Cargo track fitting for 25 mm round hole Typ 1817
Item no. 0615 1817



Please inquire about prices.





Variants



with cam buckle



with push buckle

Polyester strap with minimal elongation. Scuffing and abrasion resistant, surface protectant. Can be imprinted with your company name or logo if desired.

Lashing straps for cargo tracks

LC
in direct pull

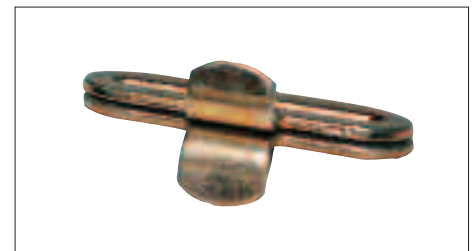


250 daN

Lashing strap for round hole cargo track fitting 1818, 50 mm width, for lashing tracks, cf. pages 148-149.

Item-No.	Variant	Price 3,50 m Length	Price add'l meter
2650 1556	with ratchet	Price on enquiry	Price on enquiry
2651 1556	with overcenter buckle		
2652 1556	with cam buckle		
2653 1556	with push buckle		

Cargo track fitting für 20 mm round hole Typ 1818 Item-No. 06151818



Please inquire about prices.

Lashing strap for round hole cargo track fitting with gib head Typ 1824, for lashing tracks, cf. pages 148-149.

Item-No.	Variant	Price 3,50 m Lenth	Price add'l meter
2625 1178	with ratchet 25 mm	Price on enquiry	Price on enquiry
2625 5178	with overcenter buckle 25 mm		
2650 1678	with ratchet 50 mm		
2651 1678	with push buckle 50 mm		

Cargo track fitting with gib head

For 25 mm strap width
Item no. 0615 0012

For 50 mm strap width
Item no. 06151824



Please inquire about prices.



Cargo Tracks

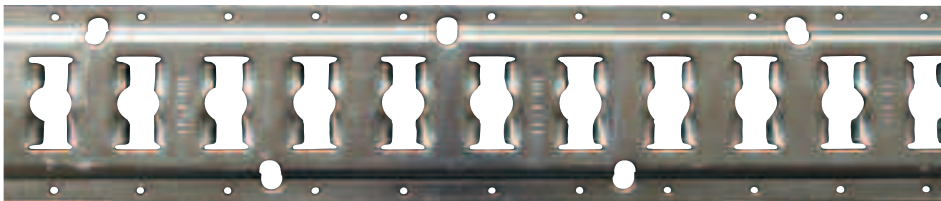
DoZurr



Combination cargo tracks, integrated slot and hole, hat profile

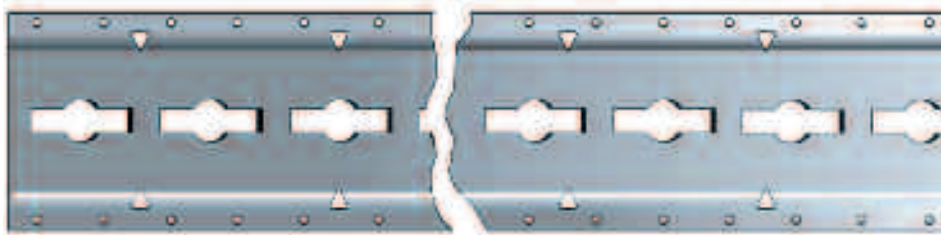
Item No.	Material	Hole - ϕ mm	Width mm	Depth mm	Length mm	Strength mm	Weight kg	Price
0615 3009	Steel, galvanized	25	130	11,5	3005	2,5	7,0	on enquiry
0615 3008	Aluminium, anodized	20	130	12	3000	3,0	2,8	on enquiry

- **tight pattern of holes allows for load securing close to load**
- **high transverse rigidity!**



Combination cargo tracks, integrated slot and hole, hat profile

Item No.	Material	Hole - ϕ mm	Width mm	Depth mm	Length mm	Strength mm	Weight kg	Price
0615 3006	Steel, galvanized	20	80	12	3200	3	5,7	on enquiry



Cargo track, slot and hole in sequence. Slot with chads bent back-wards

Item No.	Material	Hole - ϕ mm	Width mm	Depth mm	Length mm	Strength mm	Weight kg	Price
0615 3010	Steel, galvanized	20	130	11,5	3005	2,5	7,0	Price on enquiry
0615 3011	Steel, galvanized	20	130	12	3005	3,0	8,7	
0615 3015	Steel, galvanized	25	130	11,5	3005	2,5	7,0	

- **tight pattern of holes allows for load securing close to load**
- **high transverse rigidity!**





Cargo Tracks Rod slat

DoZurr

Round hole cargo track with hat profile

Item No.	Material	Hole - ϕ mm	Width mm	Depth mm	Length mm	Strength mm	Weight kg	Price
0615 3012	Steel, galvanized	20	80	12	3000	2,0	5,4	Price on enquiry
0615 3013	Steel, galvanized	20	80	11	3000	2,0	3,3	
0615 3014	Steel, galvanized	25	80	11	3000	2,0	3,3	



Round hole cargo track with hat profile for cargo track fitting with gib head

Item No.	Material	Hole - ϕ mm	Width mm	Depth mm	Length mm	Strength mm	Weight kg	Price
0615 1806	Steel, galvanized	22	80	12	3000	3	5,7	on enquiry



Cargo track (Rod slat)

Item No.	Material	Hole - ϕ mm	Width mm	Depth mm	Length mm	Strength mm	Weight kg	Price
0615 9930	Steel, galvanized	20	80	12	3000	2,0	5,4	on enquiry



Lashing strap with flat hook and safety for cargo track 8 mm

Item-No.	Variant	Price 3,50 m Length	Price add'1 meter
2625 1134	with ratchet 25 mm	Price on enquiry	Price on enquiry
2625 0278	with cam buckle 25 mm		



Slot measurements of cargo tracks are standardized. Cargo track fitting 1826 will fit universally!
(See page 146)

Flat hook with spring clip

Item No. 0602 5007 upon enquiry



Airline tracks

DoZurr

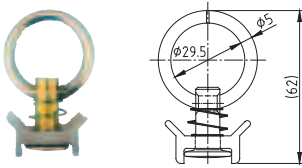
Airline track lashing straps, strap width from 25 to 50 mm, with cam buckle (25 mm) or ratchet (25, 35 and 50 mm)



with ratchet

with cam buckle

Lashing strap, 25 mm strap width, with single stud fitting, 200 daN in direct pull, 400 daN strapping

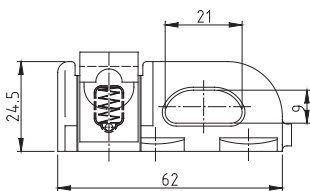


Item no.	Type	Price 3.50 m	Add. metre
2625 0521	cam buckle	on enquiry	on enquiry
2625 1112	ratchet	on enquiry	on enquiry

Lashing strap, 35 mm strap width, with double stud fitting, 500 daN in direct pull, 1000 daN strapping



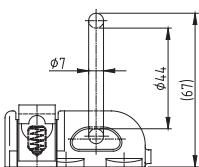
Item no.	Type	Price 3.50 m	Add. metre
2635 2112	ratchet	on enquiry	on enquiry



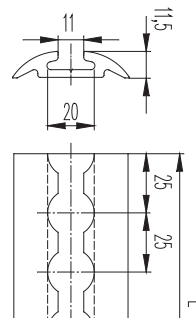
Lashing strap, 50 mm strap width, double stud fitting with ring, 500 daN in direct pull, 1000 daN strapping



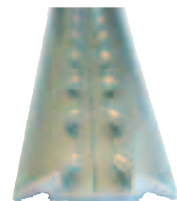
Item no.	Type	Price 3.50 m	Add. metre
2650 2112	ratchet	on enquiry	on enquiry



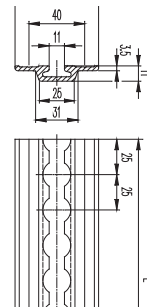
Airline track type 71224, 3 m length



Item no.	Price each
0615 7123	on enquiry



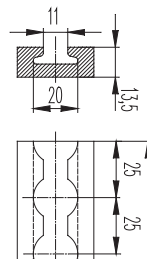
Airline track type 71207, 3 m length



Item no.	Price each
0615 7121	on enquiry



Airline track type 71206, 3 m length



Item no.	Price each
0615 7122	on enquiry



Note: Diagonally tensioned straps can pull together the bord walls of the superstructure. We recommend telescope or clamping bars.



Tailgate lashing strap Tailgate anchor

DoZurr

The Tailgate lashing strap can be combined with Cargo bars and Claping bars (page 152 - 153).

Tailgate lashing strap, 50 mm strap width, length 3.5 m

- Secure fitting of smaller loads to the tailgate, especially suitable for flat bed trucks
- No lashing points or lashing tracks required, usable where needed
- Simple handling allows fast lashing: end fitting is secured automatically when tensioning the ratchet
- No damage to the tailgate through rubber end fittings
- LC 1000 daN

Item no. 2650 0212

Price on enquiry



Dolezych safety recommendation for lashing

DoMulti convenience ratchet

- Guaranteed high pre-tension forces up to 1000 daN. Tensioning is possible by pulling or pressing the lever depending on the installation of the ratchet.

Do2Step ratchet

- Safe unloading of loads at risk of skidding and/or tilting.

DoMess 3

- The first mobile pretension force indicator in the world, rea-

dable in steps of 250 daN so you too can lash in compliance with the legal provisions. Only one indicator for any amount of over-tensions on your truck.

DoMatt antiskid mat

- Helps to save lashing devices and securing forces, i.e. frictional lashing with 2 over tensions up to 12,000 kg load weight (without antiskid mat only up to 2000 kg load weight), diagonal lashing with 4 lashing means at LC 2500 daN up to 19,350 kg load weight (without antiskid

mat only up to a load weight of 2,500 kg).

The Dolezych-Simple method helps you to select the correct lashing system and determine the safe lashing type in accordance with VDI Directive 2700 and DIN EN norm 12195.

Trucker's disc – the right lashing disc

– whether it is frictional or diagonal lashing: the number and/or dimensioning of the lashing straps can be easily read off the ingenious disc.

Cargo bars

Telescope cargo bars

DoZurr



Cargo bars

Cargo bars are metal bars with locks, that are attached to the side boards of the vehicle and pushed towards the load.

Because the load-securing-forces of cargo bars are limited they should be used for tip-over-protection.

Cargo bars, with extractable aluminium plates, range of use 2.40 - 2.70 m

Item no. 0616 2642

Price each on enquiry



Cargobar (loose)

Item no.

Price each

0616 2505

on enquiry



Cargo bars made of steel, extendable from 1.15 to 2.75 m

Item no.	Adjustable range of the clamping bars	Price each
0618 0401	10 - 30 mm	on enquiry



Clamping bars made of galvanised steel, with antiskid rubber feet on each side

Item no.	Adjustable range	Price each
0618 0015	1,43 - 3,20 m	Price on enquiry
0618 0019	1,22 - 2,74 m	
0618 0021 with cargo track kit*	1,22 - 2,74 m	

* with removable pin for fixing the cargo track



Clamping bars

Telescope cargo bars

DoZurr

Clamping bars, 2.0 - 2.7 m usage length

Item no. 0616 2645

Price each on enquiry



- Pipes made of top-quality steel.
- Fibre glass-enhanced plastic parts.
- Steepless adjustment.
- Flexibler feet allow a slope of up to 15 degrees in all directions.
- Safe unlocking clamping lever does not kick back.
- Telescope remains in set position
- Rubber feet with especially high friction value secure the close to the load bars.
- Instead of the feet, other end combinations, such as round nuts for 20 or 25 mm anchor tracks are possible.
- Blocking nets or frames can be easily combined with these clamping bars.

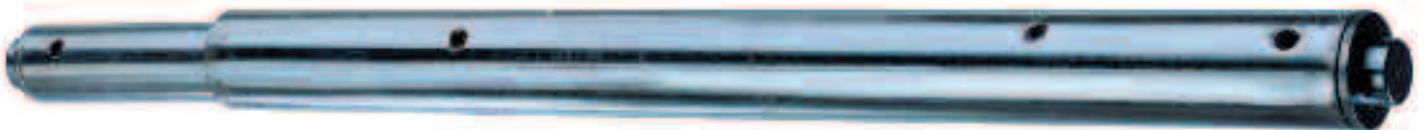
Clamping bar

Clamping bars are telescopic bars made from aluminum or steel, which are clamped between side-walls or between roof and floor of the vehicle. They can be used as flexible loading area separators and are used for form locking load securing.

With adjustable length and various different variations clamping bars are suited for all kinds of trailers, but they can loosen themselves while driving.

Telescope cargo bars for round hole tracks and universal anchor tracks, type 1826, galvanised steel

Item no. 24 mm pivot	Item no. 19 mm pivot	Interior vehicle dim. mm	Price each
0617 2412	0617 1912	2000 - 2080	Price on enquiry
0617 2413	0617 1913	2100 - 2180	
0617 2414	0617 1914	2200 - 2280	
0617 2415	0617 1915	2300 - 2380	
0617 2416	0617 1916	2440 - 2520	
0617 2417	0617 1917	2400 - 2480	
0617 2418	0617 1918	2500 - 2580	



Adjustable telescope cargo bar for round hole tracks and universal anchor tracks, type 1826, galvanised steel

Item no. 24 mm pivot	Item no. 19 mm pivot	Interior vehicle dimensions mm	Material	Price each
0617 2401	0617 2101	2190 - 2650	Galvanised steel	o.e.
0617 2402	0617 2001	2190 - 2650	Aluminium	o.e.



Cargo bar

Cargo bar sockets

DoZurr



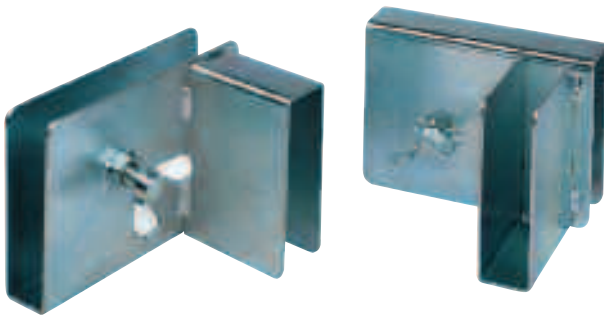
Spare parts for clamping bars

Item no.	Diameter mm	Price each
0618 0098	42 mm	on enquiry



Cargo bar socket

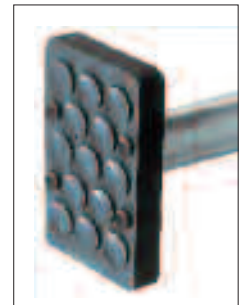
Item no. 0618 0011	left	Price each on enquiry
Item no. 0618 0012	right	Price each on enquiry



Clamping bars with anti-slip rubber feet on each side

Item no.	Diameter mm	Adjustable range mm	Weight kg	Price each
0618 0008	42 mm	2100 - 2470	5,3	Price on enquiry
0618 0045	42 mm	2350 - 2720	5,5	
0618 0046	38 mm	2260 - 2630	4,6	

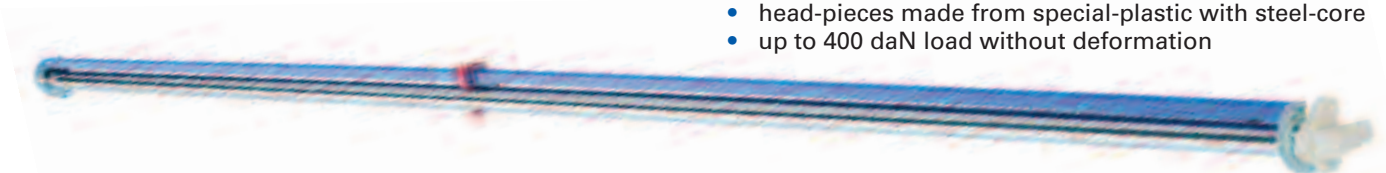
- Pipes made of top-quality aluminium
- Instead of the feet, other end combinations such as round bolts for 20 or 25 mm anchor tracks are possible
- Blocking nets or frames can be easily combined with these clamping bars



Clothes-transporting-bars for aluminum-key- and oval-holes, chrome VI free

Item no.	Abm./mm	Weight/kg	Price each
0618 0049	35 x 2,25 x 2345	5,9	on enquiry

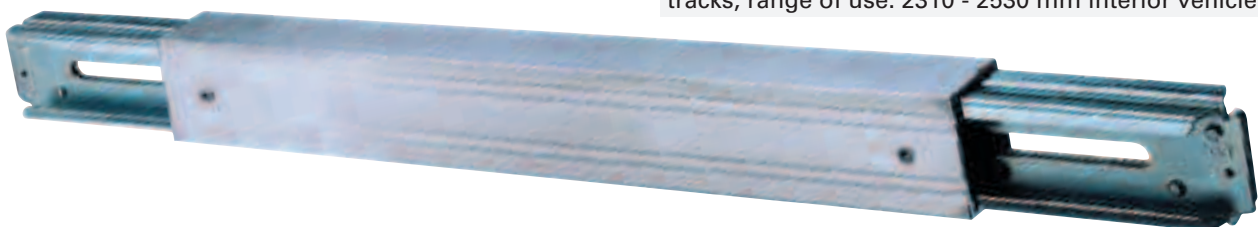
- main bar made of special steel with extreme high tensile force
- square-security bar made from aluminum
- head-pieces made from special-plastic with steel-core
- up to 400 daN load without deformation



Aluminium cargo bar

Item no. 0618 0020	Price each	on enquiry
--------------------	------------	------------

with steel end pieces on each side for combined lashing tracks, range of use: 2310 - 2530 mm interior vehicle width



Gas container securing

DoZurr

Gas container transport securing / horizontal

- Use with horizontal containers for transport in accordance with GGVS
- Safe positioning due to antiskid surface
- Suitable for open and closed loading areas

Item no.	for gas-container L content	Price per pair
0600 2032	10 L	Price on enquiry
0600 2233	22 / 33 L	
0600 2050	20 / 50 L	

- Usage and sale in pairs only
- TÜV-tested



Gas container transport securing / standing



- Suitable for 5 and 11-kg propane/butane containers
- Easy to use. Lift respective ring, place container, sheathe ring, ready
- TÜV-tested

Item no.	Price each
0600 5111	on enquiry

Gas container transport securing / standing



- Suitable for all container sizes
- With 25 mm lashing strap
- For fitting to stable, even surfaces
- Includes fitting material
- With high bottles, from 20 litres of content, 2 securings must be used
- TÜV-tested

Item no.	Price each
0600 2031	on enquiry

Below: Gas container securing with transport securing for horizontal transport. Securing through 35-mm wide

lashing strap with double stud fitting anchored in airline track (see p. 150).



Load securing in vans



Load securing in vans

There are currently no official directives (e.g. VDI) for load securing in vans. Therefore, no details regarding brake retardation and corner behaviour as well as the forces affecting the load are available..

With the DoKEP system, Dolezych provides a solution for load securing with which many small loads (e.g. parcels) as well as large individual items (e.g. o pallets with loads) can be secured effectively. The various models in stock and setting options of the load securing allow for great flexibility in use.

Load securing in vans - other securing options:

Blocking as load securing, i.e. blocking the load by placing it towards the front separating wall and/or using load securing nets is the most effective method of securing loads in vans.

Separating walls

The securing effect of separating walls depends on their strength. It can be calculated in accordance with DIN 75410-3 as follows:

$$\text{Formula: } F = 0.3 \times Q \times 9.81$$

F = compressive force in N
Q = the carrying capacity of the vehicle in kg

Calculation: The carrying capacity of the vehicle is 2,500 kg

$$0.3 \times 2,500 = 750 \times 9.81 = 7357.5 \text{ N} = 736 \text{ daN}$$

The securing effect of the separating wall is 736 daN. At a load weight of 2,500 daN the difference of 1,764 DaN (2,500 daN - 736 daN must therefore be secured with lashing means (if blocked).



DoKEP- the load securing net

The DoKEP net can be used in many different ways. It is suitable for heavy bulk goods or for palletable goods. It has several fitting options such as triangular snap hooks, Delta rings and lashing eyes (Figs.1+2).



Fig. 1



Fig. 2

Depending on vehicle model, DoKEP can be extended and shortened, where needed (e.g. for MB sprinters in short or long version).

DoKEP - ideal for all types of securing

Load securing can be achieved by frictional lashing (vertical bracing of the net), in the direct lashing method (cross-over bracing of the net as well as blocking method (net as storage area separation).



Fig.: Frictional lashing



Fig.: Net in direct lashing



DoKEP and accessories can be found on p. 158-165

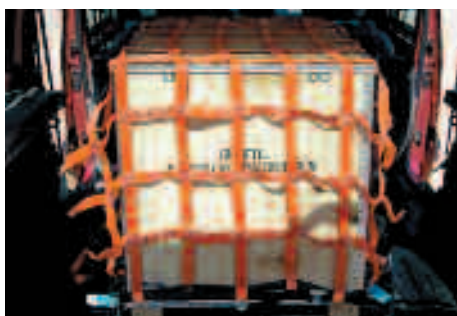
DoKEP - ideal for all types of load securing



Fig.: Net as storage area separation

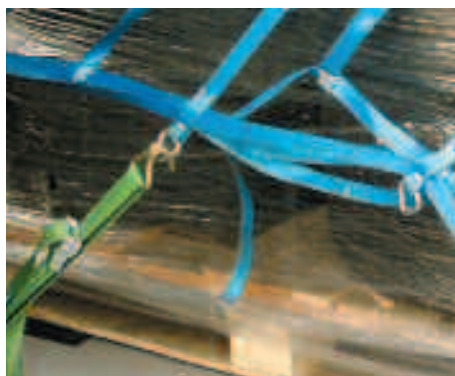
Webbing nets

In practical tests with freight forwarders and KEP companies, the DoKEP securing net was extensively tested. The result is an ideal mesh width for various loads and simple, easy handling.



Lashing straps

DoKEP is supplied with lashing straps which can be easily and quickly tightened. The end fitting parts fit into the standard lashing point and cargo track systems. A stable hook safety prevents unintentional loosening of the hooks.



Space-saving storage

When travelling without loads or when not using the nets, they can be stored on the side walls.



Vario telescope cargo bar

The special telescope bar can be preset to the load area width via a quick lock. This means that the net can be used in various vehicle types. Via a spring mechanism, the adapters are fitted and form-fit into the respective lashing track, (e.g. also skewer ledge or airline tracks) of the vehicle (Fig. 3).



Fig. 3

With the help of the Vario telescope bar additional blocking is provided. This also allows for securing heavy bulk items or securing of higher goods at risk of tilting.

If no lashing tracks are available in the side walls, the bar can also be fitted to the existing lashing points via the integrated adapters (Figs. 4).



Fig. 4

Load securing in vans and flatbed trucks

DoKEP®

DoKEP load securing set for 1.75 m internal vehicle width, 1.95 m long

The DoKEP load securing set consists of:

- Webbing net
- Vario telescope bar incl. adapter pieces (please state the vehicle type when ordering)
- DVD training manual film with operating instructions
- Number plate trailer

The DoKEP main net is supplied with 4 fast lashing straps (35 mm strap width, 2 m long). The hooks fit into standard lashing point and track systems. Hook safety prevents the hooks from coming loose by accident.

The expansion net is supplied with 2 fast lashing straps in 35 mm strap width and 2 m length.



DoKEP load securing net for small transporters

Item no.	Item name	Price each
1600 0090	DoKEP Netz (BxL) 1,625 mm x 1,825 mm Main net with Vario telescope bar with 4 x fast tensioner + adapter for lashing straps	Price on enquiry
1600 0096	DoKEP Netz (BxL) 1625 mm x 2825 mm Main net with Vario telescope bar with 4 x fast tensioner + adapter for lashing straps	
1600 0091	DoKEP Netz (BxL) 1,025 mm x 1,625 mm Expansion net with lashing slings, triangles and spring clips, and 2 x fast tensioners	
1600 0074	DoKEP Netz (BxL) 2,025 mm x 1,625 mm Expansion net with lashing slings, triangles and spring clips and 2 x fast tensioners	



DoKEP dimensions:

DoKEP small transporter main net with Vario telescope bar

The DoKEP load securing net to separate storage space

Provided with a Special-Vario telescope bar and its patent-registered lashing tracks the DoKEP net can be perfectly used to separate storage space. The telescope bar is hinged to the track system and the DoKEP net is tight to the lashing points on the vehicle floor. Please inquire!

and built-in triangles and lashing slings.

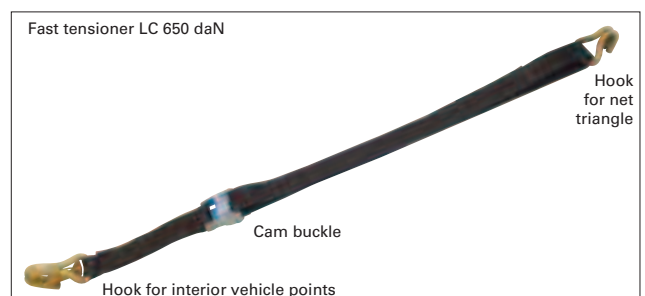
Size of the net: (WxL) 1,625 mm x 1,825 mm

Expansion net with lashing slings, triangles and suspension snap-on hook

Size of the net: (WxL) 1025 mm x 1625 mm
(WxL) 2025 mm x 1625 mm

The main net can be quickly and easily expanded with the expansion net.

(Upon enquiry, the expansion net can be produced in various other dimensions.)





Vario telescope bar, adjustable from 1.50 to 1.90 m vehicle width

Item no.	with adapter for:	Price each
0617 2504	Cargo track	Price on enquiry
0617 2212	22 mm airline track	
0617 2413	24 mm round hole	
0617 1914	19 mm round hole	



DoKEP - Adapter

Item no.	Price each
1600 0059 Adapter for lashing points	on enquiry

Additional fast tensioner, 35 mm strap width, with cam buckle and 2 hooks with locks in lengths of 2m, 3m and 4m (2 each), LC 650 daN

Item no.	Mounting strap 35 mm	Price per 2 piece
26351134	2 m	Price on enquiry
26351134	3 m	
26351134	4 m	



Telescope locking bars with shorter dimensions, in particular, for round hole tracks and universal anchor tracks type 1826, galvanised steel

Item no. 24 mm ø	Item no. 19 mm ø	Interior vehicle dimensions mm	Price each
0617 2408	0617 1908	1500 - 1580	Price on enquiry
0617 2409	0617 1909	1600 - 1680	
0617 2410	0617 1910	1700 - 1780	
0617 2414	0617 1907	1800 - 1880	



DVD - DoKEP

Demonstration video for the usage of DoKEP load securing nets.

Item no. 6699 1201 Price on enquiry



Expert manual on load securing in vans

Item no. 0699 9992 on enquiry



Load securing nets for trucks

DoKEP®

DoKEP - load-securing-nets

With improved, patented sewing technique the performance of DoKEP load-securing-nets clearly improved. The nets have now 2-times-security against breaking, so the actual securing forces can be named exactly.

This means: the weight that can be secured with the net can now properly be calculated.

With the two variations on this page it is easy to secure loads of 2 tons respectively 5 tons weight. All Dolezych load-securing-nets are equipped with specially for the lashing-system designed components (e.g. triangles, eyes, stirrups). So the net can be lashed optimal.

The DoKEP-load securing-nets for trucks extends the Dolezych-Simple-Method specially for load-securing-nets. Depending on the number of used fast tensioners and their valid lashing-capacity the maximum weight that can be secured can be determined very fast. There is no easier and more reliable way to secure your loads.



DoKEP load securing nets for trucks, mesh width 280 x 280 mm

Item no.	Item-name	Price each
1600 0313	DoKEP main net, 2 t (BxL) 3130 mm x 3130 mm	Price on enquiry
1600 0314	DoKEP extpansion net, 2 t (BxL) 3130 mm x 960 mm	
1600 0308	DoKEP main net, 5 t (BxL) 3130 mm x 4060 mm	Price on enquiry
1600 0309	DoKEP extpansion net, 5 t (BxL) 3130 mm x 2200 mm	

The DoKEP load securing net for trucks consists of:

- webbing net
- vario telescope bar 2270 mm
- 8 fast tensioners
- transport bag
- marker tag

The **DoKEP main net for a weight of 2 tons** is provided with 44 triangles, 4 lashing slings and 2 hooks (Profilhaken) with locks.

The **DoKEP extension net for a weight of 2 tons** is provided with 22 triangles and 8 hooks with locks.

The DoKEP load securing net for trucks consists of:

- webbing net
- vario telescope bar 2270 mm
- 8 fast tensioners
- marker tag

The **DoKEP main net for a weight of 5 tons** is provided with 54 triangles, 6 lashing slings and 2 profile-hooks with safety snap.

The **DoKEP extension net for a weight of 5 tons** is provided with 24 triangles and 8 hooks with locks.





DoKEP load securing net for trucks

Item no.	Item name	Price each
1600 0075	DoKEP truck set (BxL) 2500 mm x 3500 mm	Price on enquiry
1600 0076	DoKEP truck adapter net (BxL) 2500 mm x 3500 mm	
2635 1134	Fast tensioner 3m	



The safe solution for trucks

These are the benefits of the DoKEP load securing net for trucks:

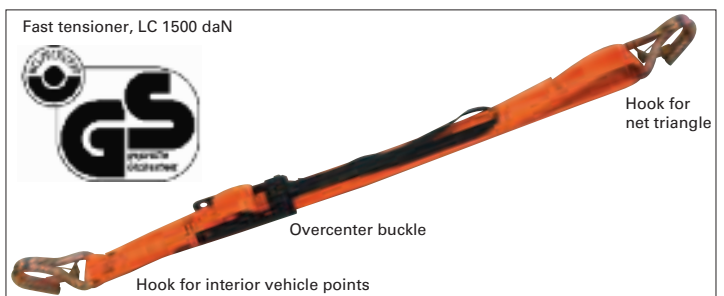
- Flexible and easy use of the net.
- One net for trucks of different manufacturers and model type.
- Suitable for load securing of heavy bulk goods and palletted goods.
- Optimum mesh width for different loaded goods.
- Fast and easy expansion of the main net with the expansion net without tools.
- Simple and fast tensioning of the net with the help of the supplied fitting straps and form-fit adjustment of the net to any load through numerous fitting options of the straps in the net.
- Load securing can be achieved by frictional lashing (vertical tensioning of the net) and the direct lashing (cross-tensioning of the net) methods.
- Practical, space-saving storage of the net in the truck on the lateral wall when not transporting anything.

DoKEP load securing net for 2500 mm interior vehicle width, 3500 mm long



DoKEP main net with built-in triangles and lashing slings

Size of the net: (WxL) 2500 mm x 3500 mm
 Length of the eye bar: 2000 mm



Load securing in station wagons

DoKEP®

The secure solution for station wagons

These are the benefits of the DoKEP load securing net for station wagons:

- Flexible and easy use of the net.
- One net for all station wagons of various manufacturers and model types.
- Optimum mesh width for various load goods, thus suitable for heavy bulk goods and palletted goods.
- Easy and fast tensioning of the net with fitting straps as well as form-fit adjustment of the net to every load through numerous fitting options of the straps in the net.
- Load securing can be achieved by frictional lashing (vertical tensioning of the net) and the direct lashing (cross-tensioning of the net) methods.



DoKEP load securing net for cars and station wagons

Item no.	Item name	Price each
1600 0077	DoKEP station wagon set, Net (WxL) 1105 mm x 1975 mm, Eye bar, 4 x fitting straps	on enquiry
2635 1134	DoKEP Combo extension lashing strap	on enquiry



DoKEP load securing net for 1105 mm interior vehicle width, 1975 mm long

DoKEP station wagon main nets

Size of the net: (WxL) 1105 mm x 1975 mm
 Length of the eye bar: 1000 mm

DoKEP station wagon lashing straps

DoKEP is supplied with 4 fitting straps in 35 mm strap width and 2 m length. The end fitting parts fit into standard lashing point systems. Hook securing prevents the hooks from coming loose by accident.



DoKEP-liftnet for load security on trailers

DoKEP®

The DoKEP-liftnet

There are often no suited lashing points on closed trailers. This makes load-security almost impossible with standard-products.

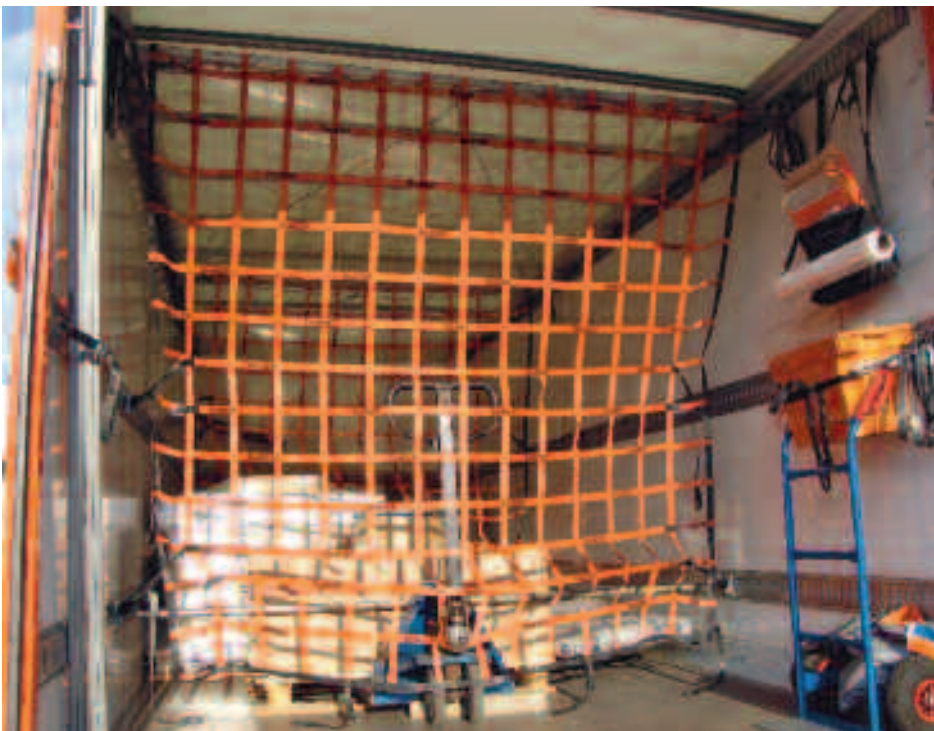
The new DoKep-liftnet is an easy to handle way to secure loads in this type of vehicle. The DoKep-liftnet was developed in cooperation with TNT and tested under real conditions.

That's how it works ...

- The load-securing-net is tightly installed under the vehicles roof.
- For using the net only pull it down like a roller blind
- up to three nets per truck. The loading area can be separated into different secured areas.
- besides the separation of loading areas, the DoKEP-liftnet secures the load when opening the walls. Loads that have moved while the ride can no longer fall out and be damaged or even hurt someone.

Your advantages:

- space-saving and easy installation under the vehicles roof
- effective separation of load-areas
- flexible load-security
- minimum headroom for easy load handling by forklift or pallet jack
- up to three nets per truck possible
- saves the driver when opening the truck
- DoKEP-liftnet for load-security in closed trucks

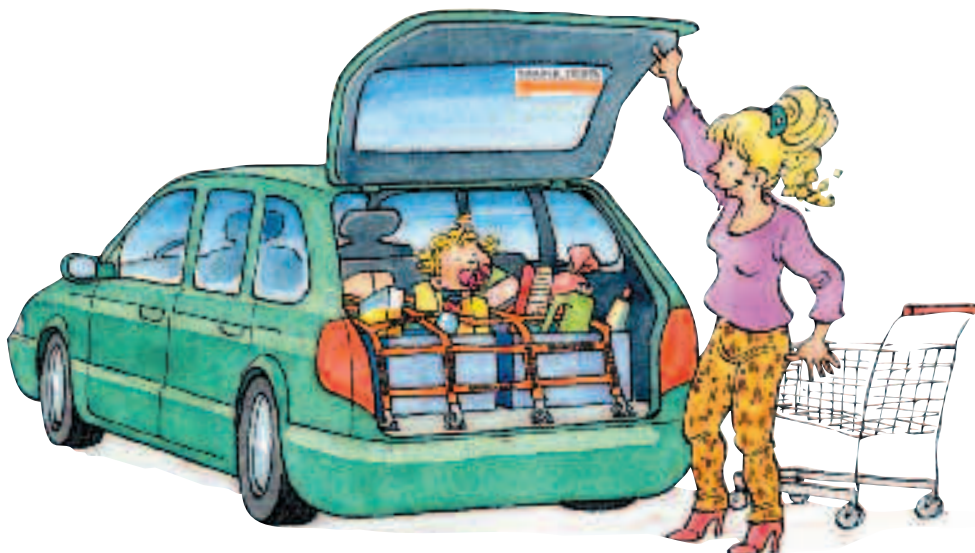


DoKEP-liftnet for load-security in closed trucks

Item no.	Item-description	Price each
1600 0107	DoKEP net (WxL) approx. 2,45 m x 2,30 m Complete Set, including webbing-net, protection foil, customized for your trailer	on request + Montage

Load securing in cars

DoKEP®



The safe solution for cars and station wagons

These are the benefits of the DoKEP load securing net for station wagons:

- Flexible and easy usage of the net.
- One net for all station wagons of various manufacturers and types.
- Optimum mesh width for different loaded goods.
- Simple and fast fitting of the net with the help of the supplied fast tensioners and form-fit adjustment of the net to the load. Numerous fitting options of the fast tensioner in the net.
- Length setting via velcro locks and therefore also when the rear seat is folded down.
- Load securing can be achieved by frictional lashing (vertical tensioning of the net) and the direct lashing (cross-tensioning of the net) methods.

DoKEP load securing net for cars and station wagons (estate)

Item no.	Item name	Price each
1600 0079	DoKEP estate (WxL) 1015 mm x 2005 mm Mesh width 65 x 65 mm	Price on enquiry
1600 0081	DoKEP estate (WxL) 925 mm x 1375 mm Mesh width 200 x 200 mm	
1600 0082	DoKEP estate (WxL) 900 mm x 1250 mm Mesh width 150 x 150 mm	
1600 0083	DoKEP estate (WxL) 900 mm x 1275 mm Mesh width 100 x 100 mm	
1600 0084	DoKEP estate (WxL) 1025 mm x 2025 mm Mesh width 175 x 175 mm	
1600 0060	Fast tensioner 0.75	

Fast tensioner, LC 500 daN





Load securing in cars

DoKEP pop-up

DoKEP®

Load securing cannot be made simpler!

The DoKEP pop-up net sets new standards in handling when using load securing nets.

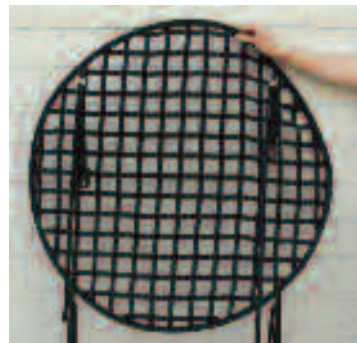
Thanks to fast and uncomplicated application and simple storing when not used, DoKEP pop-up is perfect for usage in cars and station wagons.

These are your benefits:

- Installation of the folded up net in seconds thanks to automatic unfolding function.
- Simple and fast securing of the load through four fast tensioners integrated in the net.
- When storing the load, the net can first be conveniently set up between the vehicle floor and ceiling. This allows for optimum handling of the load.
- Load securing is carried out by direct lashing (cross-tensioning of the fast tensioner).
- Also ideal for small transport goods thanks to its tight mesh.
- If nothing is transported, the net can be simply placed on the floor or stuck between the vehicle floor and ceiling.
- Can be used in all standard cars and estates as well as pick-up trucks.
- Also suitable to secure goods on roof racks.

DoKEP pop-up! Load securing net

Item no.	Item name	Ø approx.	Price each
1600 0086	DoKEP pop-up! Mesh width 120 x 120 mm	1000 mm	on enquiry



DoUniFlex load-securing system for instable loads

DoUniFlex

Transporting bulk goods like granules, gravel, grit or powderish materials often brings difficulties with it. Because of their conditions it is not possible to tie it down. The instability of the load and the vehicle often result in damage to the load or the vehicle.

For transporting this kind of loads we have developed the DoUniFlex-securing system for instable loads.

Suitable for every soft-packed loads with fungous movement like:

- octatainer
- palletized bags in shrink-wrap
- Drink crates
- BigBags
- and every other load that can not be tied down

DoUniFlex

- secures in direct-lashing-method (is like the diagonal-lashing-method a form-fitting-method)
- the system consists of a horizontal with a concentric over the load running head-band.

On the connection of head- and bellyband, 50 mm wide lashing straps are sewed, which are lashed via ratchet to the vehicle.



DoUniFlex load-securing system for instable loads

Item no.	Item-description	Price each
0500 0040	DoUniFlex load-securing system	on enquiry



DoUniflex for instable loads running, wide „belly-band“ was tested by the „Fraunhofer Institute“(IML).

Result:

„The entire load-securing-system proved very efficient for securing against tipping-over and/or moving of the octatainer on the load area“



The DoUniFlex load securing system for B.R.C. fabric

DoUniFlex

Finally B.R.C. fabric can be transported securely!

The correct load securing of B.R.C. fabric proved to be difficult in the past.

The reason is that the high resilience and the low dynamic friction of the B.R.C. Fabric among each other make it almost impossible to secure economically with regular lashing techniques (lashing straps, ropes or winches).

The DoUniFlex load securing system for B.R.C. fabric

Item no.	The DoUniFlex load securing system for B.R.C. Fabric consists of	Price each
0269 1201	4 pieces of DoUniFlex rope slings	Price on enquiry
2650 8999	4 pieces of DoZURR 8000, 50mm lashing straps, orange, lateral securing	
2650 8997	4 pieces of DoZURR 5000, 2-parts, 50mm lashing straps blue for longitudinal securing for lashing points of 2000 daN LC	
2650 8998	4 pieces of DoZURR 5000, 2-parts, 50mm lashing straps, blue for longitudinal securing for lashing points of 4000 daN LC	

Economical, easy and absolutely secure: The new DoUniFlex rope-system for B.R.C. fabric

The system is able to secure the loaded B.R.C. fabric by a direct strapping system without any structural alterations needed to the vehicle. For this a specially developed system of steel ropes is used that is put across the corners of the B.R.C. fabric stack and then gets lashed down.

Extensive road tests undertaken by the TÜV Nord (North German Association for Technical Inspection) certify the excellent securing qualities.

Application:

Pick up the DoUniFlex-System manually, put it over the loaded B.R.C. fabric and finally fasten it. Done!

DoUniFlex

The DoUniFlex-System for B.R.C. fabric consists of four DoUniFlex rope slings as well as a total of eight DoZURR 8000 lashing straps with a width of 50mm.

Here the advantages:

- can be used for all known mesh sizes

- no construction changes need to be made to the vehicle itself
- quick application saves time and costs
- secures welded wire mesh in an easy, quick and absolutely secure way
- tested by TÜV Nord and certified with "excellent load securing qualities"
- recommended by the Bundesverband Güterverkehr, Logistik und Entsorgung (BGL) e.V. (German Federal Association for Commercial Transport, Logistics and Disposal).
Ask for the loading recommendation!



TÜV certified load securing

Load securing in trucks

Safe net – the individual net solution

Dolezych

Load securing of concrete pipes, this is how it works.

1. Fit the net to the lashing points.
2. The concrete pipes are loaded in blocked formation (form-fit).
3. The net is laid over the load and tensioned. The net can be segmented for large dimensions.
4. The complete load is secured. Additional securing measures are not required. All load parts are covered.



Securing nets made of webbing - for perfect load securing, e.g.of:

- Concrete pipes
- Paper rolls
- Bulk items
- Wooden logs
- as container net on trucks or trailers
- as a separator in cars
- as load securing in workshop vans or station wagons



Concrete pipe security by VDI 2700

Please provide us with some information for us to give you a quote.

Load type:

Weight:

Dimensions of the load:

Dimensions of the load area:

End wall available:

Dimensions of the end wall:

Type of lateral walls:

Surface couples:
(wood/concrete, wood/steel, wood/wood)

Number, dimensions and distance between the lashing point:

Sender:

First name/Surname:.....

Company/Position:

Street/no.:

Post code/City:.....

Tel.:

Fax:

Please draw your load and lashing points and note the dimensions in the draft. Copy this page, enter your address and send it by fax to Dolezych.

A large, empty grid area provided for the customer to draw their load and lashing points, including dimensions.

Load securing nets

Lashing sling mats

DoZurr



Lashing sling mats

Lashing sling mats are used as a tool for load securing. They are suitable for securing loaded goods, such as long materials, pipes and other loads which have no fitting options of their own, with the transverse or diagonal lashing methods. You can find another example on page 96.



Head pocket for pipe transports

Pocket for the load protection on roof carriers. Especially suitably for the protection of loading which show no own connection possibilities as for example: Pipes or other long materials.



Container nets

Nets



Container nets are used to cover open containers, skips and lorries. Handling the products is easy and provides a top level of safety against falling out or dispersing objects.

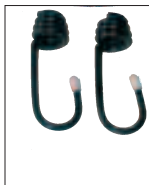
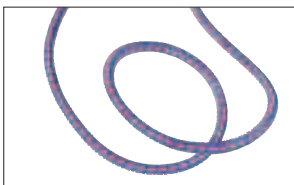
The container nets, made as a default from top-quality polypropylene multifilament (PPM), ensure a long lifecycle. We also provide nets made from polyamide and polyethylene on request.

Expander / rubber ropes for self-installation

Rubber rope bulk 100m, Item no.	rope diameter in mm	Price per 100 m VE 100 m
0799 9906	6	Price on enquiry
0799 9908	8	
0799 9910	10	

Wire hooks with black plastic cover

Item no.	für rope diameter in mm	Price each VE 100 m
0699 9966	6	Price on enquiry
0699 9968	8	
0699 9985	10	



Container nets knotless, with circular solid edge chord, Mesh width 45 mm

Twine dia.	3 mm (PPM)	
Net colour	green	
Material	Polypropylene	
Item no.	Dimensions/m	Price each
6706 3020	2,0 x 3,5	Price on enquiry
6771 3220	2,5 x 3,5	
6703 3530	3,0 x 3,5	
6706 0034	4,0 x 3,5	
6706 0035	5,0 x 3,5	
6706 0036	6,0 x 3,5	
6706 0037	7,0 x 3,5	
6706 0038	8,0 x 3,5	
6706 0310	10,0 x 3,5	
6706 0033	3,0 x 3,0	
6706 4030	3,0 x 4,0	

Container nets knotless, with circular solid edge chord, Mesh width 35 mm

Twine dia.	3 mm (PPM)	
Net colour	green	
Material	Polypropylene	
Item no.	Dimensions/m	Price each
6771 1712	1,5 x 2,2	Price on enquiry
6771 1713	1,5 x 2,7	
6771 1723	2,0 x 3,0	
6771 1724	2,0 x 3,5	
6771 1734	2,5 x 3,5	
6771 1735	2,5 x 4,5	
6771 1834	2,5 x 4,0	





Container fabric

Container covers

Nets

Container polyethylene woven fabric, air-permeable, colour: green

Item no.	Weight ca. g/m ²	Dimensions in m	Price each
6702 1032	200	3,0 x 2,0	Price on enquiry
6702 1034	200	3,0 x 4,0	
6702 1035	200	3,5 x 5,0	
6702 1037	200	3,5 x 7,0	
6702 1038	200	3,5 x 8,0	

HDPE-Container cover, water-proof, colour: green. All 40 cm with eyes, also in special dimensions available

Item no.	Weight ca. g/m ²	Dimensions in m	Price each
6700 0091	220	1,5 x 2,5	Price on enquiry
6700 0089	220	2,0 x 3,0	
6701 3550	220	3,5 x 5,0	
6701 3560	220	3,5 x 6,0	
6701 3570	220	3,5 x 7,0	
6701 3580	220	3,5 x 8,0	

Container covers

Water-proof protection is provided by our impermeable container covers made from tear-proof plastic. They are light, UV resistant, rott-free, equipped with edge bracing all round and half-round holes every 25 cm.

Standard sizes are available in stock for you for immediate supply. Individual sizes can also be supplied.

Container polyethylene woven fabric, air-permeable, colour: black

Item no.	Weight approx. g/m ²	Dimensions in m	Price per pc.
6702 2035	220	3,5 x 5,0	Price on enquiry
6702 2036	220	3,5 x 6,0	
6702 2037	220	3,5 x 7,0	
6702 2038	220	3,5 x 8,0	

PE-texture cover, light-cover colour olive-green with reinforced edge with eyes

Item no.	Weight ca. g/m ²	Dimensions in m	Price each
6702 5001	120	2,0 x 3,0	Price on enquiry
6702 5002	120	3,0 x 4,0	
6702 5003	120	3,0 x 5,0	
6702 5004	120	3,0 x 6,0	
6702 5005	120	6,0 x 8,0	

Container fabric

Depending on the type of the load, it sometimes is more suitable to use a closed mesh container cover in order to prevent losses due to wind dispersal of light loads, such as sand, gravel and other small materials. Our container covers fabric consist of solid, air-permeable green woven fabric, are UV resistant, rott resistant and fitted with extra wide, multi-layered edge bracing as well as every 50 cm with stable metal eyes.

The air-permeable material prevents the cover from being blown off in strong winds or when transporting the container.

We have standard sizes available for delivery in stock. Individual sizes can also be supplied.

Heavy PVC-container cover water proof, air proof, all 40 cm with eyes, colours green blue or grey. Also available in special dimensions.

Item no.	Weight ca. g/m ²	Dimensions in m	Price each
6702 7001	630	3,5 x 5,0	Price on enquiry
6702 7002	630	3,5 x 7,0	
6702 7003	630	3,5 x 8,0	

PVC-Cover also available with 400 g/m²!

Side-protection nets, 2-aluminum-eyes every 5 cm PP-strap reinforced edge laminated on both sides

Item no.	Twine sq/inch	Dimensions in m	Price each
6702 6001	12 x 12	2,1 x 10,0	Price on enquiry
6702 6002	12 x 12	2,6 x 10,0	
6702 6003	12 x 12	2,6 x 20,0	
6702 6004	12 x 12	3,1 x 10,0	
6702 6005	12 x 12	3,1 x 20,0	



Info:

If desired the covers can be delivered with rubberline.

Please inquire!

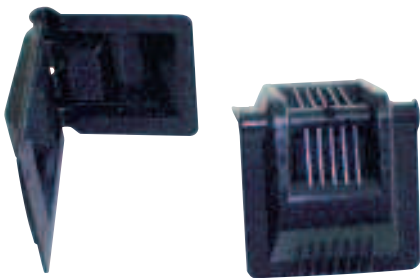


Edge protection corners

DoZurr



DoLight plastic edge protection corners



For the transport of standing, lying or pressure-sensitive cargoes (e. g. paper reels)

- Reliably protects edges
- Ideal (large area) pressure distribution
- Easy handling
- Low weight
- For 50 mm webbing width

Item no.	Item	Price each
0600 0062	Sharp edge protection 50mm	o.e.

Metal sharp edge protection



- Ideal (large area) pressure distribution
- Ideal for transporting chipboards
- For 50 mm webbing width

Item no.	Item	Price each
0600 0024	Sharp edge protection	o.e.

BoKas – Aluminium edge protection corners



- Appropriate for the transport of standing or lying paper reels
- Particularly robust design
- anti-slip coating on the bearing side
- Recommended by paper manufacturers
- For 50mm webbing width

Item no.	Item	Price each
0600 0063	Sharp edge protection	o.e.

DoLight PP-edge protection (not for paper rolls)



- reliable edge protection
- large pressure distribution
- very stow friendly
- light version
- for 50 mm webbing

Item no.	Item	Price each
0600 0083	Sharp edge protection 50 mm	o.e.

Polyethylene edge protection corners



- The ideal sharp edge protection for all sensitive and fragile cargoes
- Safe protection when using lashing systems or bundle straps
The wide load-bearing side optimally distributes the pressure

Item no.	Item	Price each
0600 0014	Sharp edge protection 50mm	o.e.

Polyethylene edge protection corners, with threading-slit



- The ideal sharp edge protection for all sensitive and fragile cargoes
- Safe protection when using lashing systems or bundle straps
The wide load-bearing side optimally distributes the pressure

Item no.	Item	Price each
0600 0023	Sharp edge protection 50mm	o.e.



Sharp edge protection

DoZurr

L-profile palette sharp edge protection

Item no.	Dimensions in mm	Weight in g	Price each
0600 0092	400 x 185 x 185	600	Price on enquiry
0600 0093	800 x 185 x 185	1.200	
0600 0094	1.200 x 185 x 185	1.800	



- Polypropylene with notch on the edge
- no damage on the edges thru notch on the inside of the edge protection
- belt fixation for 50mm webbing
- light, high flexible and bump-resistant
- ideal for securing palletized paving stones and boxes or concrete components
- various lengths

Sharp edge protection

Item no.	Length in m	Dimensions mm	Price each
0600 0044	0,80	190 x 190	Price on enquiry
0600 0038	1,00	190 x 190	
0600 0037	1,20	190 x 190	
0600 0046	2,00	190 x 190	
0600 0050	2,40	190 x 190	
0600 0036	6,00	190 x 190	



- 19 mm of material thickness (double-bridge-plates)
- Weight: 2,2 kg/m
- high form elasticity
- special lengths on request



Abrasion protection – edge protection

DoZurr

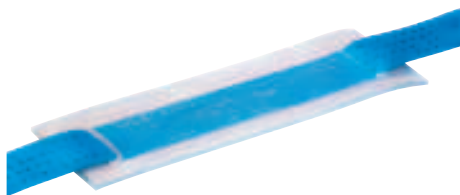
Sharp edge protection for 25, 35, 50 and 75 mm webbing width

Your advantages:

- Better distribution of pressure
- Higher durability of lashing systems
- Easy to handle and load-protective



DoLex edge protection underlay



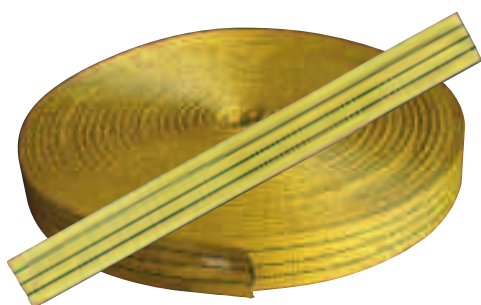
Item no.	Webbing width mm	Price/unit
0600 0025	25	Price on enquiry
0600 0019	35	
0600 0018	50	
0600 0090	75	

PVC-ARS-Abrasion protection tube



Item no.	Webbing width mm	Price/unit
5500 0040	25	Price on enquiry
5500 0050	35	
5500 0060	50	
5500 0100	75	

Edge protection hose, PES webbing protection hose, yellow



Item no.	Webbing width mm	Priceje m
5562 0493	Edge protection hose for 50 mm webbing width	o.e.



DoLex sliding appliances for edges protect the webbing from damage and they guarantee an even distribution of pressure.

DoLex edge glider



Item no.	Webbing width mm	Price/unit
5597 0025	25	Price on enquiry
5597 0035	35	
5597 0050	50	
5597 0075	75	

PU-ARS-Abrasion protection tube



Item no.	Webbing width mm	Price/unit
5500 2040	25	Price on enquiry
5500 2050	35	
5500 2065	50	
5500 2100	75	

DoLex edge protection with feed-in slit for 50mm webbing width

Item no.	Dimensions mm	Price/unit
0600 0026	50	on enquiry



- No threading
- Quick positioning
- Special dimensions on request

Anti-slip mats VDI 2700 part 14 + 15

DoMatt

Why use anti-slip mats ?

DoMatt anti-slip mats enhance the coefficient of kinetic friction μ . For detailed information, see pages 98 +99.

- Higher stability under load and security

What does that mean?

- Only a minimum number of lashing systems is required
- Reduction of the necessary LC (lashing capacity)
- Clearly defined coefficient of kinetic friction

Anti-slip mats

Item no.	Dimensions mm	Strength mm	Price/unit
0610 1108	5000 x 250	8	Price on enquiry
0610 1121	5000 x 125	8	
0610 1122	600 x 600	8	
0610 1107	120 x 180	8	
0610 1109	200 x 300	10	
0610 1104	1250 x 1250	4	
for paper loading			
0610 1147	600 x 150	3	
0610 1148	20000 x 150	3	



Anti-slip-mat with undetachable marking



Anti-slip-mat -
On rolls, easy cutting to size

Anti-slip-mat for heavy loads



Item no.	Dimensions mm	Strength mm	Price/unit
0610 1011	500 x 500	10	Price on enquiry
0610 1010	1000 x 1000	10	
0610 4108	160 x 250	10	

For heavy loads, anti-slip mats are available in different variations. Different profiles of the surface guarantee a high coefficient of friction (e. g. in cases or pollution).

For heavy loads anti-slip-mats please inquire!

Anti-slip-mat-heavy-loads-sets

Item no.	Dimensions mm	Price/unit
3 x DoMatt Anti-slip-mat 0610 1350	2.800 x 300 x 4	Price on enquiry
3 x DoMatt Anti-slip-mat 0610 1352	4.150 x 300 x 4	

Anti-slip-mats packed in duffle bag, every mat with yellow DoMark-label.



Optimal load securing:
Anti-slip mats for passenger cars
and DoKep load securing nets see
pages 164-165.

Anti-slip mats

DoMatt

Universal anti-slip mats for the luggage area of passenger cars

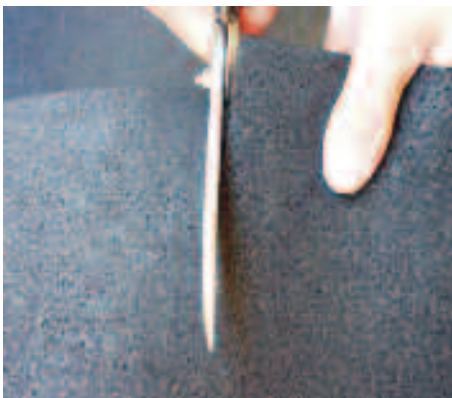
Item no.	Dimensions/mm	Price/unit
0610 1104	1250 x 1250 x 4	on
0610 1200	1500 x 1500 x 4	enquiry

- High stability of the load in the luggage area
- Can be combined with nets
- Optimal load securing
- Can be easily cut with a shear or a carpet cutter
- Dimensionally stable, no formation of wrinkles

Dolezych DoMatt anti-slip mats conform to the test criteria of the employers' liability insurance association.



Anti-slip mats can be easily cut with a shear or a carpet cutter according to requirements.



Attention!
squared timber can
also be used as support for rolls
VDI 2700.

Anti-slip mats Black-Cat „Panther“

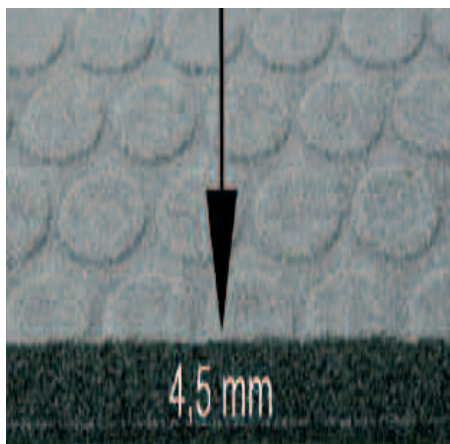
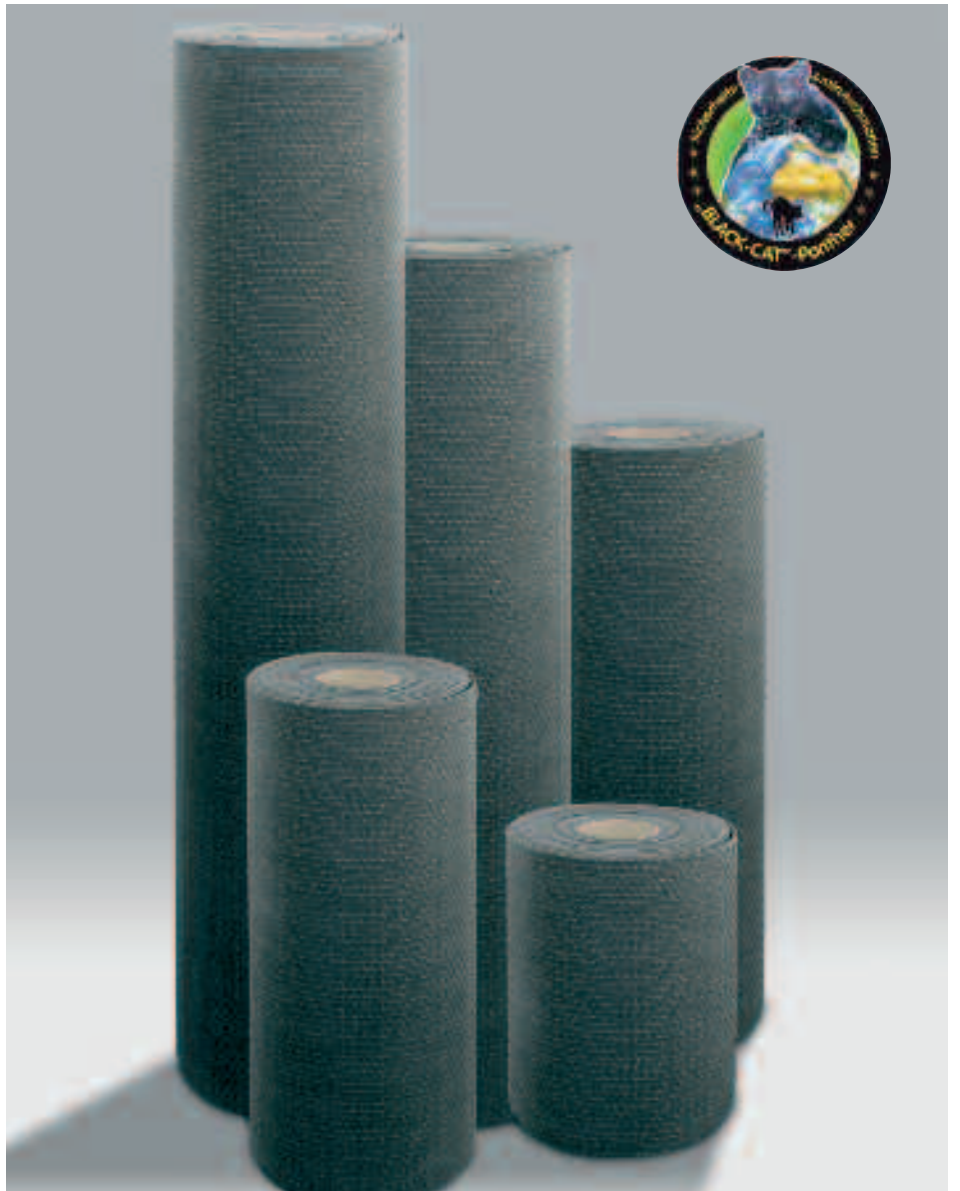
DoMatt



Black-Cat „Panther“ anti-slip-mats can be used in various ways. Besides as a load securing support these mats can also be used as flooring in industries and hand-crafts in order to secure a solid stand. They also conserve joints, muscles and the spine.

This are you advantages:

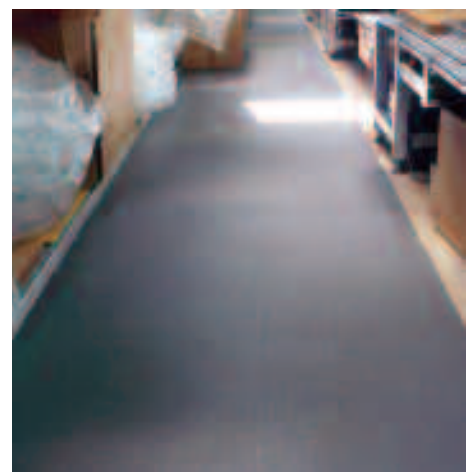
- extreme tear strong through additional inserted webbing with special coating
- only 4,5 mm thick, therefore very flexible, high dimensional stability and cuttable
- coefficient of kinetic friction: $\mu > 0,6$ ask for technical data sheets
- also suited for heavy duty
- durable on inside and outside use
- noise reducing and cold-isolating
- temperature resistant from -40°C up to $+120^{\circ}\text{C}$
- melting temperature approx. 250°C auto-ignition temperature approx. 350°C
- easy to clean through closed surface. Use usual detergents. No exceptions for fluids
- very resistant against acids, leaches, oil, fuel and diesel
- free of formaldehyde and toxic heavy metals like lead or cadmium, free of silicon
- very high biological-resistance disposal with household waste





Anti-slip Mat Black-Cat „Panther“

Item no.	Dimensions/mm	Price each
Black-Cat-Panther rolls		
0622 0003	120 x 4000	Price on enquiry
0622 0004	150 x 4000	
0622 0005	200 x 4000	
0622 0006	300 x 4000	
0622 0007	600 x 4000	
0622 0023	800 x 4000	
0622 0008	1000 x 4000	
0622 0009	1200 x 4000	
0622 0010	1600 x 4000	
0622 0011	200 x 8000	
0622 0012	1000 x 8000	
0622 0013	1200 x 8000	
0622 0014	1600 x 8000	
Black-Cat-Panther-Pads		
0622 0001	150 (octagonal)	Price on enquiry
0622 0022	200 x 200	
0622 0017	120 x 1250	
0622 0021	120 x 2450	
0622 0018	120 x 13400	
0622 0020	600 x 800	
0622 0019	1200 x 800	
Black-Cat "Panther" rolls with double-sided adhesive tape		
0623 0015	60 x 4000	Price on enquiry
0623 0002	120 x 4000	
0623 0003	150 x 4000	
0623 0004	200 x 4000	
0623 0005	300 x 4000	
0623 0006	600 x 4000	
0623 0014	800 x 4000	
0623 0007	1000 x 4000	
0623 0008	1200 x 4000	
0623 0011	120 x 1250	
0623 0012	120 x 2450	
0623 0013	120 x 13400	



Anti-slip mats

DoMatt

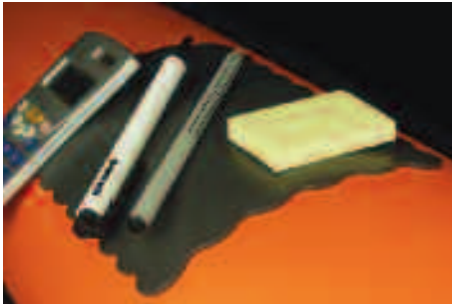


SmartPad



Attention! Anti-slip-mats are no edge protection, because they do not lead pretension forces on inside the lash.
DoLex edge protection for lashings can be found on page 174-175.

Anti-slip mat „SmartPad“



This silicon-anti-slip-mat is ideal for using it in the car on the dashboard - sunglasses and mobile-phones stick to it absolute safe

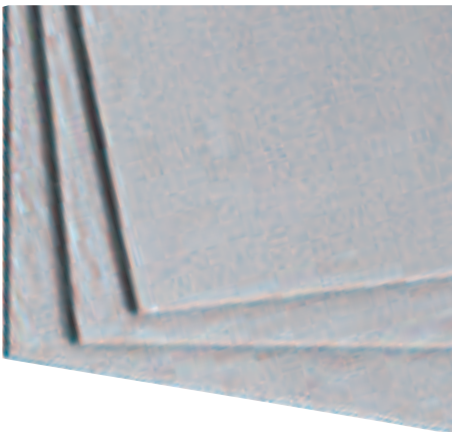
Protects the surface and can be removed without any remnants

Attention: unsuitable for load-securing!

Item no.	Dimensions mm	Price/unit
0622 0025	18,9 x 12,9	on enquiry

- sticks on vertical and slope surfaces
- keeps sunglasses, CD's, MP3-players, note-blocks, mobile phones, etc.
- keeps everything on ist place, even in curves, bumps, while breaking, etc.

Anti-slip-mat from coated foam



- Certified coefficient of kinetic friction: $\mu_D = 0,6$ (Transpofoam PLUS blue) detected thru the "Fraunhofer Institut IML" in tests with original paper rolls on conventional trailers
- coefficient of kinetic friction test thru "Fraunhofer" and "DEKRA" for following materials:

paper roll - silk-screen-sheet
 paper roll - paper roll
 wooden pallet - silk-screen-sheet
 lattice box - silk-screen-sheet
 steelbarrel - wooden pallet
 steelbarrel - silk-screen-sheet

Detailed informatin on request!

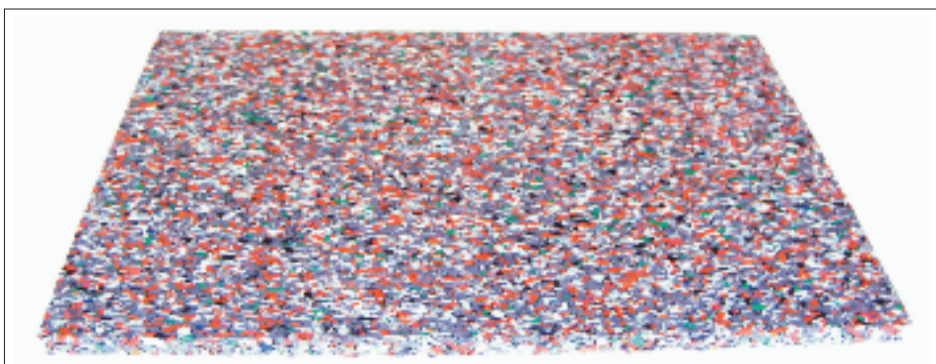
Item no.	Dimensions/mm	Price/unit
0610 1212	400 x 150	Price on enquiry
0610 1213	800 x 150	
0610 1247	1000 x 150	

- tested in multiple use (e.g. paper rolls)
- completely recycleable
- 2mm - 6mm material thickness

Anti-slip-mat for the transport of fair-faced concrete, multi-coloured

- For the transport of fair-faced concrete segments
- High strength and durability
- No abrasion of colour
- Other dimensions on request

Item no.	Dimensions mm	Strength mm	Price/unit
0610 1201	5000 x 250	10	o.e.



Load securing claws

Item no.	Dimensions mm	Price/100 pcs.
0690 0001	48 ø	Price on enquiry
0690 0002	62 ø	
0690 0003	75 ø	
0690 0005	48 x 65	



Additional enhancement of stability: The double-sided claws are placed under the corners of the cargo (pallets, crates, cardboard boxes). The pointed teeth are pressed into the load floor and into the cargo and the stability of the load is additionally enhanced.



DoVario-lashingpoint-bar

DoZurr

There are 2 problems concerning lashing points and load securing:

There are not always enough lashing points to secure different goods, and their position is not always the right (distances, position)

If a narrow, low good shall be tied down in the middle of the loading area the lashing points on the edge of the truck are often too far away from the good. So the angle for tying down the load is too small and the required pre-tension-forces can not be warranted.

There is now an easy and safe solve for this problem:

the new patented DoVario-universal-lashingpoint-bar from Dolezych.

These bars are placed anywhere on the loading area and then tied to the existing lashing points.

The transported goods are placed on the bar. The frequent notches in the bar are used as lashing points. So the required lashings can be attached optimally.

Through the optimized lashing-angles the number of lashings and the used pre-tension-forces can be reduced.

Even partial loading and parcel goods

of various sizes are easy and fast secured. So there is always the right lashing point for every load available.

Because it is possible to stick anti-slip-mats direct to the bar, there an additional plus of safety the new patented DoVario-lashingpoint-bar is safe - is flexible and saves time and lashings.



solves problems of load securing for various goods: DoVario-universal-lashingpoint-bar

DoVario-lashingpoint-bar

Item no.	For band width mm	Price each
0615 3099	DoVario-lashingpoint-bar	on enquiry



DoVario in use

Lashing points and lashing hooks

DIN EN 12640
DIN EN 75410, 1-3

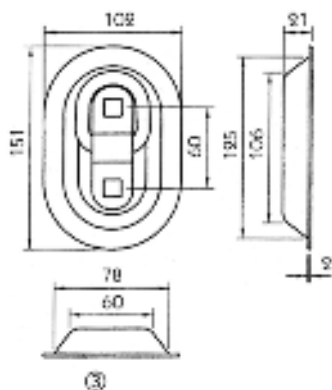
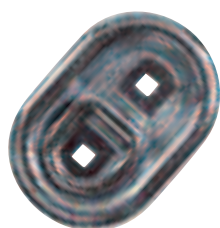
DoZurr



Three part srew-on lashing point according to DIN EN 12640

Item no.
0600 0001

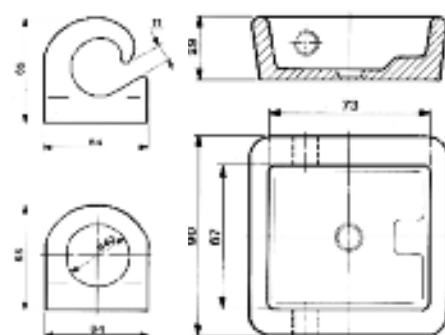
Price/unit
on enquiry



Weld-on lashing point with lashing eye, according to DIN EN 12640

Item no.
0600 0009

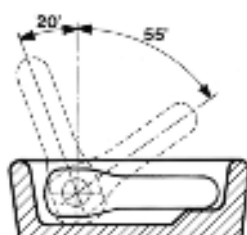
Price/unit
on enquiry



Weld-on lashing point with lashing hook, according to DIN EN 12640

Item no.
0600 0016

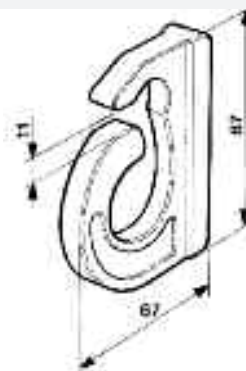
Price/unit
on enquiry



Weld-on lashing hook, according to DIN 12640

Item no.
0602 6500

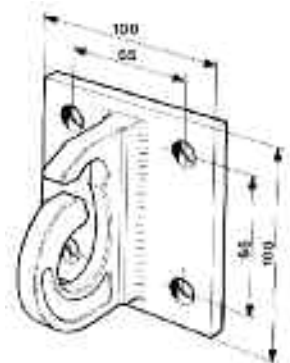
Price/unit
o.e.



Screw-on lashing hook, lashing point according to DIN 12640

Item no.
0602 6501

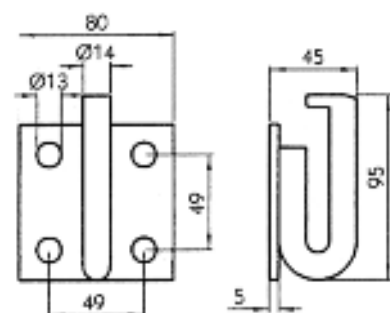
Price/unit
on enquiry



Weld-on lashing hook, lashing point according to DIN 12640

Item no.
0600 0013

Price/unit
on enquiry





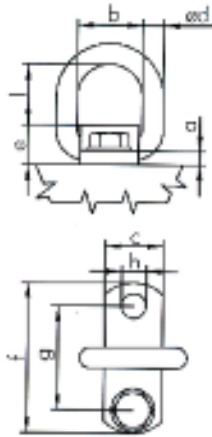
The general opinion that a heavy load cannot shift only because of its own weight can turn out to be very hazardous when it comes to practical use. That's why an accurate lashing of the load is very important.



Weld-on and screw-on ring bolts, grade 80

DoZurr

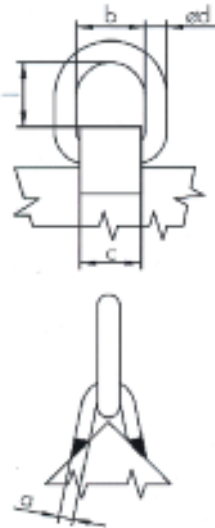
Ring bolt, grade 80. screwable type



Item no.	Lifting capacity t	Screw	Dimensions mm									Weight kg	Price/unit
			a	b	c	d	e	f	g	h	l		
0952 3000	3,15	M 20	12	92	50	18	34	130	90	21	53	1,08	Price on enquiry
0952 5000	5,30	M 24	15	111	60	22	42	160	110	25	63	2,04	
0952 8000	8,00	M 27	20	132	70	26	55	190	130	28	68	3,58	

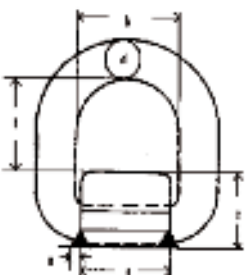
Allen wrench screws not included in delivery. (Allen wrench screws quality category 8,8 or higher, according to DIN EN 24018, formerly DIN 931)

Ring bolt, grade 80. for edge fixing, with weld-on plate



Item no.	Lifting capacity t	Dimensions mm					Weight kg	Price/unit
		a	b	c	d	l		
0951 3001	3,15	12	56	50	18	53	0,90	Price on enquiry
0951 5001	5,30	15	67	60	22	63	1,40	
0951 8001	8,00	20	80	70	26	68	2,35	

Ring bolt, grade 80. with weld-on plate



Item no.	Lifting capacity t	Dimensions mm					Weight kg	Price/unit
		a	b	c	d	t		
0951 1000	1,12	35	40	28	13	42	0,40	Price on enquiry
0951 3000	3,15	42	45	33	18	48,5	0,60	
0951 5000	5,30	49	55	44	22	57	1,20	
0951 8000	8,00	64	70	51	26	67	2,40	
0951 1500	15,00	86	97	65	34	93,5	5,90	

* Please always adhere to welding regulations or ask for more info!

Belt lift lashing system Long part reeler

DoZurr



Belt lift lashing system 501



Item no.	Type of top	Number	Price
0699 0621	tarpaulin truck	6	Price on enquiry
0699 0620	sliding roof	6	
0699 1221	tarpaulin truck	12	
0699 1220	sliding roof	12	

Your advantages:

- The belt lift lashing system represents a fundamental improvement in the field of load securing.
- The positioning of the long parts is done flexibly and in a professional way.
- There is no more need to throw the lashing systems over the load.
- The long parts are always ready at hand.
- There is no more need to stand on the load floor in order to attach the belt tie downs. This helps to save time and to reduce hazards.

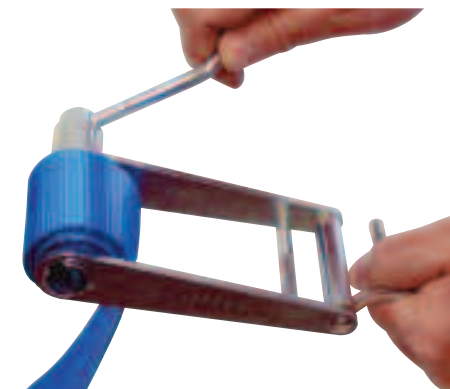
- The long parts are firmly fixed to the lashing points by means of the lashing hooks and they are transported to the operator by means of the belt lift.

This helps to save time and money!!!

Loading faster, lashing faster ... with belt lifts!

Webbing roll up device incl. bag

Item no.	Price each
0600 0079	on enquiry



Long part reeler

Easily and quickly reeling up long parts. Webbing width 50 mm. Wound-up long parts can easily be stowed, they do not need much space and they are always ready for use.

Instructions:

1. Truck is equipped with the base plate
2. Reeling-up device is inserted into the base plate
3. Wind up webbing
4. Pull off webbing
5. Stow webbing
6. Detach wind-up mechanism and stow it

Item no.	Price/unit
0600 0078	on enquiry



Tarpaulin lashing straps Furniture lifting belt

DoZurr

Tarpaulin lashing straps, webbing width 45 mm, black, 0,65 m long



Your advantages:

- Stainless steel overcenter buckle
- Galvanised round steel hooks

	Item no.	Price
Lashing strap with overcenter buckle	0699 4090	Price on enquiry
Overcenter buckle, single	0699 4091	
Lashing strap with Overcenter buckle and safety catch	0699 4080	
Overcenter buckle and safety catch, single	0699 4081	
Replacement webbing, 0.65m with round steel hook	0699 4092	



Dolezych also uses black webbing to manufacture lashing systems, round slings and endless web slings for events.

Furniture lifting belt

Item no.	Price each
0599 0000	on enquiry



Robust type with leather boarding and felt-supported lifting hook

- Continuously adjustable and appropriate for all body heights.
- Broad contact surface enables comfortable handling. Shoulders aren't excessively stressed.

Furniture lifting belt

Item no.	Price each
0598 9998	on enquiry

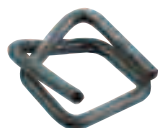


Load securing railway cargo

DoZurr

Buckle type

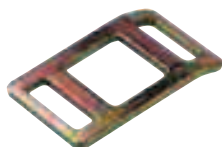
500 daN



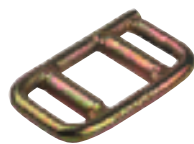
700 + 1000 daN



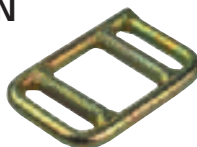
1400 daN



2000 daN

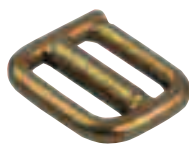


3000 + 4000 daN

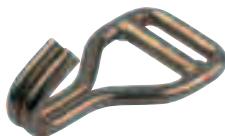


Additional connecting elements

Eye buckle

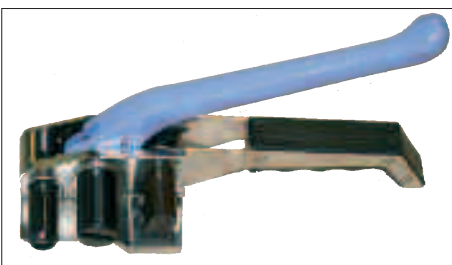


Hook buckle



Belt tensioner up to 50 mm, with cutting-off device

Item no.	Price each
0619 9006	on enquiry



Load securing belt

Item no.	Thickness in accordance with DB	Belt width	VE	Price per 100 m
5519 8125	500 daN	25 mm	500 m	Price on enquiry
5519 8135	700 daN	32 mm	400 m	
5519 8235	1000 daN	35 mm	350 m	
5519 8436	1400 daN	35 mm	250 m	
5546 0392	2000 daN	35 mm	300 m	
5536 0552	3000 daN	50 mm	250 m	
5519 0582	4000 daN	50 mm	300 m	

Buckles for the load securing belt

Item no.	Thickness in accordance with DB	Belt width	VE	Price per 100 pieces
0619 8205	500 daN	25 mm	400 Stück	Price on enquiry
0619 8209	700 daN	32 mm	125 Stück	
0619 8209	1000 daN	35 mm	125 Stück	
0619 3516	1400 daN	35 mm	100 Stück	
0640 5005	2000 daN	35 mm	100 Stück	
0640 5001	3000 daN	50 mm	100 Stück	
0640 5001	4000 daN	50 mm	100 Stück	

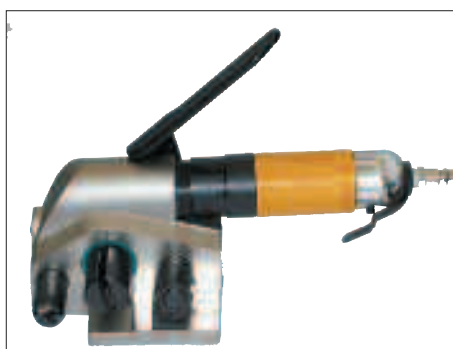
Additional connecting elements

Item no.	Description	Thickness daN	Strap width mm	VE each	Price
0640 5002	sling buckle	4000 daN	50	100	on enquiry
0640 5003	hook buckle	4000 daN	50	100	on enquiry

Pneumo 32 pneumatic belt tensioner

Price each
on enquiry

- For textile strapping belts and composite belts
- Up to 32 mm belt width
- Belt thickness from 0.5 to 2.0 mm
- Pretension force up to 600 daN
- Weight approx. 3.5 kg



Belt tensioner for 50 mm, for pretension force up to 500 daN

Item no.	Price each
0619 5099	on enquiry



Pneumo 50, pneumatic belt tensioner

Price each
on enquiry

- For textile strapping belts and composite belts
- Up to 50 mm strap width
- Strap thickness 0.5 to 2.5 mm
- Pretension force up to 750 daN
- Weight approx. 4.0 kg



DD / DB 4000 daN



Bundling Strapping

DoZurr

Bundle belt, 50 mm width, 2500 daN system strength

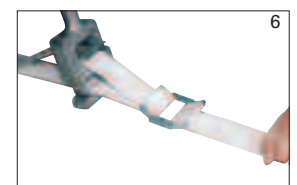
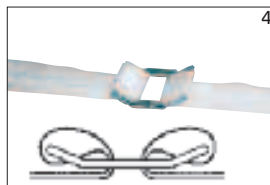
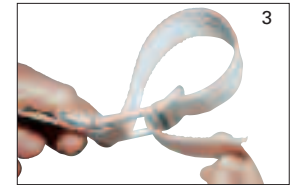
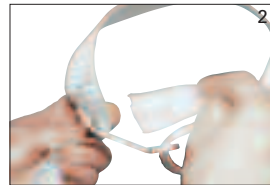
The woven belt has an especially high tearing and breaking strength.

The system consists of strap belt, tensioner buckle and strap tensioner or tensioner ratchet optionally. VE: 250 m.

Easy application!

Item no.	Item	Price each
0650 2006	Long handle ratchet	Price on enquiry
0619 5000	Strap tensioner	
0650 2003	Tensioner ratchet	
0619 5016	Strap buckle	

Item no.	Item	Price each
0619 1600	Belt strap UD 50 2000 daN	o.e.



Instructions:

- Insert bundle belt into the belt buckle (Figs. 2 and 3) and tighten by hand (Fig. 4).

- Tighten the bundle belt with the tensioner ratchet (Fig. 5) or the strap tensioner (Fig. 6).



Tensioners, rollers for PES-strapping band

Item no.	Item	Price each
0619 9002	Belt tensioner up to 19 mm	Price on enquiry
0619 9003	Belt tensioner up to 25 mm	
0619 9004	Belt tensioner up to 40 mm	
0619 9010	Roller with storage box	
0619 9011	Roller with storage box, mobile	
0619 9012	Insertion bar for pallets	



PES-strapping band

Our bundle power belt is tried and tested every day in "one thousand and one" securing methods. Tear thicknesses of 300 - 2000 daN, 6 x lighter than steel belt, low-cost one-use securing, made of extremely tear-proof polyester yarns. The belt tensioner, the handy portable roller and the low-cost tension buckles are a simple bundle combination, also printed or with special impregnation, e.g. flameresistant or antistatic, for "underground" use.

Item no.	width mm	breaking-strength-daN	meter per roll	packaging unit VE	Price per roll	tension buckles Item no.	packaging unit VE	Price per 100 piece
0619 8111	10	280	1500	2	Price on enquiry	0619 8201	1000	Price on enquiry
0619 8113	13	380	1100	2		0619 8201	1000	
0619 8172	16	450	850	2		0619 8202	1000	
0619 8121	13	500	750	2		0619 8201	1000	
0619 8222	16	600	600	2		0619 8202	1000	
0619 8123	19	700	500	2		0619 8203	1000	
0619 8174	25	1000	500	2		0619 8205	400	
0619 8178	30	1200	150	9		0619 8209	250	

Fill-up bags

DoZurr

Inflatable fill-up bags can be used in many ways in load securing

Fill-up bags minimise the transport risk for the load and the transport devices. Ideal for container loading, transports by boat, lorry or rail.

A 2-layer fill-up bag is available by default consisting of an external layer made of coated polypropylene webbing fabric and an internal area made of DLPE pipe film (air chamber).

For **one-time use**, the bags are equipped with a flexible pipe valve.

A screw valve is available for **multiple use**.

Nearly every format with the required load capacity needed is available. Please enquire.

Your benefits

- Empty spaces are easily filled in!
- Full-surface area product securing. Skidding in the pallet area is no longer possible.
- Fast and easy handling saves time.
- Replaces wooden structures, old pallets and used packaging materials as "load securing tools".
- Easy disposal of the fill-up bags.

Fill-up bags (2-layer), white



Item no.	Dimensions mm	Packaging unit, Pieces/pallet	Price each
0609 1205	750 x 1000	500	Price on enquiry
0609 1206	1000 x 1000	400	
0609 1207	1000 x 1200	350	
0609 1208	1000 x 1800	300	
0609 1209	1000 x 2000	250	
0609 1211	1200 x 1800	200	
0609 1210	1200 x 1200	350	
0609 1202	1200 x 2400	160	
0609 1212	1500 x 2400	150	
0609 1213	1800 x 2400	140	
0609 1214	2000 x 2000	140	
0609 1215	2000 x 2400	130	

Technical specifications

Double layer interstitial
50 up to 6000 mm

Format

Length: 400mm up to 6000 mm

Material: Polyethylen foil (PE)
Polypropylen woven fabric (PP)

Size: PE 150 µm, PP 150 g/m²
Valve: single use - outlet tube

Air filling pistole for fill-up bags



Item no.	Price each
0691 9999	on enquiry

single use fill -up bags, System 3-D, white



Technical specifications

Double layer with side gusset
for interstitial up to 800 mm

Material: Polyethylen foil (PE)
Polypropylen woven fabric (PP)

Size: PE 150 µm, PP 150 g/m²
Valve: single use outlet tube

Format

Length: 1000 mm up to 5000 mm
Width: 500 mm up to 1700 mm

Depth: 300 mm bis 800 mm

Price on enquiry!

**Fill-up bags,
Single use,
Reusable fill-up bag**

DoZurr

Single use fill-up bag red light (1-layer), red



For spaces from 50mm up to 400 mm

Technical specifications

Material: Polyethylen foil (PE)

Size: 1 x 300 µm
Valve: single use - outlet tube

Format

Lenght: up to 6000 mm
Width: 400 mm up to 1800 mm

For saving in boxes qualified, and there where bind no sharp edges

Price on enquiry!



Dolezych fill-up bags guarantee safe transport and unloading of your transport goods.

Reusable fill-up bag, white



Reusable fill-up bag can be used more than 50 times. For example, for transports in companys or trucks
For reusable the fill-up bag, equipped with an especially developed reusable valve.

Technical specifications

Double layer for spaces
50 mm up to 400 mm

Material: 1 x Polyethylen foil
Polypropylen woven fabric (PP)

Size: PE 150 µm, PP 150 g/m²

Four-ply for spaces

50 mm up to 400 mm
Material: 2 x Polyethylen foil (PE)
Polypropylen woven fabric (PP)

Size: PE 150 µm, PP 150 g/m²
Valve: reusable valve (PP)

Format

Lenght: 400 mm bis 6000 mm
Width: 600 mm, 700 mm, 1000 mm, 1200 mm, 1500 mm, 1800 mm, 2000 mm

Price on enquiry!

Air filling pistole for fill up bags

Item no.	Price each
0601 0200	on enquiry



Reusable valve

Dolezych instruction package Driving school package

DoZurr



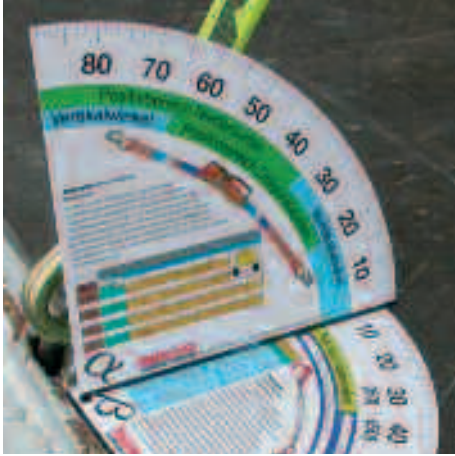
Dolezych Instruction package – Load securing

Instruction package 1	Item no. 2650 9999	Price on enquiry
Products with short effective use – ideal for instruction purposes		
Set consists of:		
Content:	Item no.	Description
Dolezych lashing strap	2650 4034	webbing width 50mm, length 2,50m with standard ratchet, 1 profile hook +1 U-profile hook with magnet, 2000 daN direct pull, 4000 daN hoping, according to EN 12195-2
Dolezych lashing strap	2651 5334	webbing width 50mm, length 2,50m with DoMulti long handle ratchet, 1 profile hook with safety snap and 1 DoConnect hook, 2500 daN direct pull, 5000 daN hoping, according to EN 12195-2
Dolezych lashing chain	2985 0801	Length 2 m, size 8 mm, with safety snap hook on both sides and 1 shortening hook, ratchet load tensioner, according to EN 12195-3
Dolezych lashing point	0600 0009	2000 daN according to EN 12640
Dolezych DoMatt	0610 1113	5 x DoMatt anti-slip-mat, 8mm, dimensions 200 x 100mm
Sharp edge protection corners	0600 0014	5 x sharp edge protection , webbing width 50mm
PVC – Abrasion protection tube	5500 0060	5 x Abrasion protection tube, webbing width 50mm, 0.50m long
Protractor	0699 9990	5 x Protractor
Trucker's disc.	0699 9999	10 x Trucker's Disc, load securing disc
Poster	0695 5555	2 x load securing poster, (A1 size)
Manual	0699 9992	Load securing, the way it must be done!
Video	0699 0000	Video, load securing well done
DVD	0699 1201	DoKep, load securing in pick-up trucks and vans

Dolezych - Driving school package

Instruction package 2	Item no.2650 9998	Price on enquiry
Set consists of:		
Content:	Item no.	Description
Dolezych lashing strap	2650 4034	2x Dolezych lashing strap, two-parted, webbing width 50mm, length 8m, with standard ratchet, profile hook, 2000 daN direct pull, 4000 daN hoping, according to EN 12195-2
Dolezych lashing strap	2651 5334	4x Dolezych lashing strap, two-parted, webbing width 50mm, length 8m, DoMulti long handle ratchet, profile hook with safety snap, 2500 daN direct pull, 5000 daN hoping, according to EN 12195-2
Dolezych lashing strap	1650 5000	2x Dolezych lashing strap, one piece, webbing width 50mm, length 8m, standard ratchet
Sharp edge protection corners	0600 0062	10 x stable Dolezych sharp edge protection corners, webbing width 50mm, for rectangular loads
Round slings	0514 1512	2 x Dolezych roundslings, 2000kg carrying capacity, circumference 5m, can be used as head sling
Sharp edge protection corners	0600 0014	5 x sharp edge protection , webbing width 50mm
Dolezych DoMatt	0610 1129	20 x DoMatt anti-slip-mat, 10mm, dimensions 200 x 100 x 10mm

Dolezych courses: We offer one-day and two-day courses for all those who are in charge on the field of lifting technology and transport. For detailed information, see pages 5 and 6, or visit our homepage (www.dolezych.de). You can also order our detailed brochure. Please inquire.



Protractor Trucker's disc

Dolezych - Protractor

Item no. 0699 9990 Price on enquiry

Accurately and reliably determines the vertical angle α when frictional lashing as well as the vertical angle α and the horizontal angle β when lashing diagonally.

Based on these exact values, the number and the dimensioning of the lashing devices can be precisely determined and minimized.



Dolezych - Trucker's Disc

The trucker's disc was designed for those who are responsible for loading trucks and transporting goods.

- Only two sides of a rotatable disc are necessary to find out how your load must be secured.
- One side deals with the technique of frictionally lashing loads. Different pretension forces and coefficients of kinetic friction determine the number of lashings according to the loading weight and the lashing angle α . The number of lashings can easily be read off.
- The second side deals with diagonal lashing. Here the admissible lashing capacity of the lashing devices (e.g. DoZurr 5000) can be read-off. This lashing capacity depends on the vertical angle α and the horizontal angle β , as well as on the different coefficients of friction and the loading weight.
- The disc is available in the following languages: German, English, French, Italian, Spanish and Czech

Official teaching material
of the employers' liability
insurance association

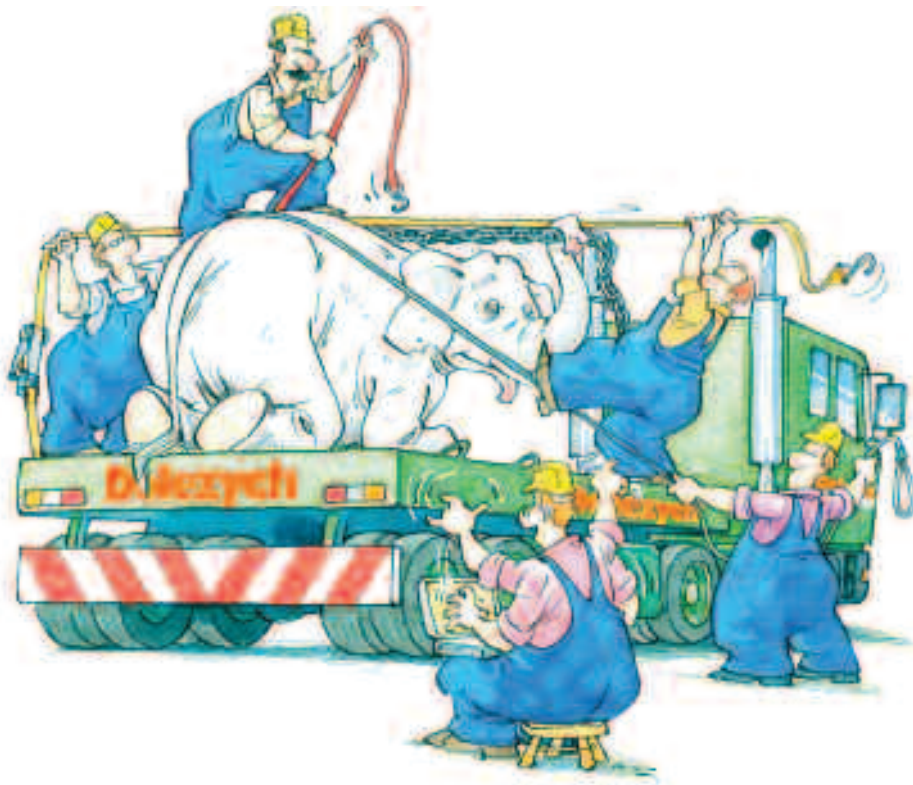
Available in 6 languages!



Trucker's Disc

Item no. 0699 9999 Price on enquiry

With the trucker's disc, you can easily determine the correct number of lashing systems.



Load securing software Do.L.O.R.E.S.2.0

DoZurr

Do.L.O.R.E.S. is the load securing calculation software.

Do.L.O.R.E.S stands for 'Dolezych Ladungssicherung Optimiertes Rechnergestütztes Experten System' (Dolezych load securing optimised computer-aided expert system).

With this software you can determine the necessary number of lashing equipment and their dimensioning with pinpoint precision.

Do.L.O.R.E.S. can be used alternatively in assistant mode or in expert mode. The assistant mode offers support in entering the data and is the fastest way to the result. The expert mode offers a large number of input options and also calculates the securing of the load for combinations of different lashing methods.

These are your advantages:

- the optimised user interface ensures ease of use
- an extensive help function guides the user step by step through the program
- there are numerous calculation examples for different loads
- the arrangement of the load on the loading area can be changed by mouse click
- DoLores is in German and English; further languages will be available shortly
- the inputs and results can be stored for subsequent further use
- there are extensive documentation and printing options for your documents

The calculation of the securing of the load takes place in accordance with the valid DIN EN 12195-2.

However, calculation parameters according to VDI 2700, sheet 2 can additionally be selected.

Supplementary to the European standard, the securing of special loads, e.g. reinforcing steel meshes, is dealt with here.

Do.L.O.R.E.S. – the load securing calculation software in accordance with DIN EN 12195-1 and VDI 2700, sheet 2

Item no. 6699 1011 Price on enquiry



At www.dolezych.de you can find further information and a link to download the full version of the pro-

gram. Following installation on your computer you will receive an activation code from us.

Case sets for hobbies and crafts

DoZurr

Case set I

2 x lashing systems, one piece, webbing width 25mm, 4,0m long with cam buckle, 250 daN lashing capacity (strapping)



Item no. 2692 0250 Price/set on enquiry

Case set II

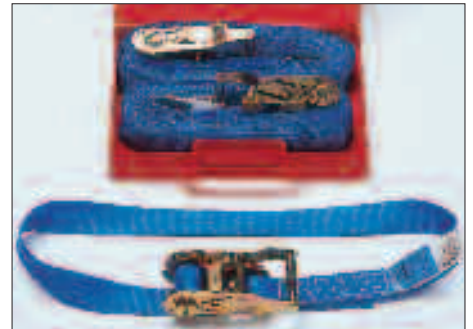
2 x lashing systems, one piece, webbing width 25mm, 4,0m long with mini ratchet, 500 daN lashing capacity (strapping)



Item no. 2692 0501 Price/set on enquiry

Case set III

2 x lashing systems, one piece, webbing width 35mm, 6,0m long with ratchet, 2000 daN lashing capacity (strapping)



Item no. 2692 2001 Price/set on enquiry

Case set IV

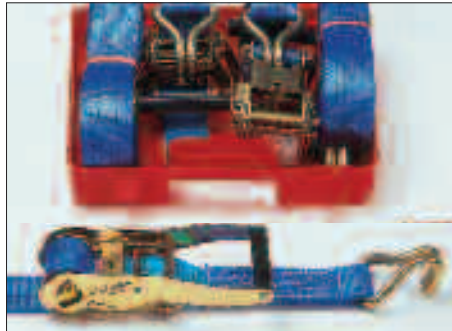
2 x lashing systems, two pieces, webbing width 35mm, 6,0m long with ratchet, 2000 daN lashing capacity (strapping), with profile hook



Item no. 2692 2056 Price/set on enquiry

Case set V

2 x lashing systems, two pieces, webbing width 50mm, 8,0m long with ratchet, 4000 daN Lashing capacity (strapping)



Item no. 2692 4034
Mit Profile hook Price/set on enquiry

Item no. 2692 4078
Mit U-Profile hook Price/set on enquiry

Item no. 2692 4012
Mit Karabinerhaken Price/set on enquiry

Installation case set VI

1 x 2 leg chain sling, grade 80, 1,5m long, chain size 6 mm, with 2 shortening hooks and 2 safety load hooks, carrying capacity 1,6 t with a angle of inclination of 0-45°, 1 roundsling, carrying capacity 1 t, circumference 2,0m



Item no. 2692 0002 Price/set on enquiry

All sets come with a case!

Make up your own case set.
Please ask our experts!



Off-road set

1 universal recovery belt, 10,0m long, webbing width 50mm, reinforced loops on each side, tear-proof up to 8000kg, use as recovery belt, tow rope, or lifting belt (1000kg carrying capacity) + 2 high-tensile connecting shackles (tensile strength 13000kg or carrying capacity 3250kg)+2 universal ratchet lashing straps, 6,0 m long, webbing width 35mm, one piece, 2000 daN permissive lashing capacity + pair of work gloves + 1 metal case

Item no. 2692 0001 Price/set on enquiry





Self-service packaged Lashing Straps

DoZurr

Sales display

Perfect for a visually appealing presentation of products at the point of sale.

If needed we can provide an individualized sales display for you.

Packed in shrinkwrap foil with a cardboard back or protected by bubblewrap foil, the products are protected from dirt, dust, and humidity. By individual design or printing on the packaging they can turn into your branded products.

Please talk to our expert sales representatives about your options for optimized sales presentations.

**1 x Ratchet lashing strap,
35 mm, one-piece, 6 m length**



**2 x Cam buckle lashing straps,
25 mm, one-piece, 2,5 m length**



**1 x Cam buckle lashing strap,
25 mm, one-piece, 5 m length**



**1 x Cam buckle lashing strap,
25 mm, one-piece, 5 m length**



**1 x Ratchet lashing strap,
25 mm, one-piece, 5 m length**



**1 x Ratchet lashing strap,
25 mm, two-piece, 5 m length**



Expander straps

Expander / Rubber ropes

DoZurr

Expander / rubber ropes for minor demand usage, expandability approx. 100%

Expander ropes for a fast, effective connection. Core made of best latex, braided with high-endurance, scouiring-resistant UV-resistant polyester.

Expansion approx. 100%, for minor demand usage only.

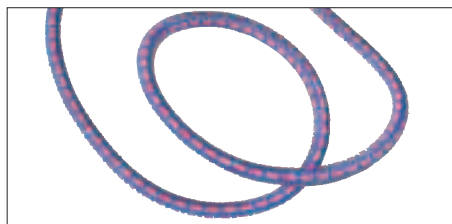
Can be supplied for simple self-installation or ready-made.

Expander / rubber ropes with wire hooks, ready-made, in lengths 0.5, 1.0 and 2.0 m

Rope diameter in mm	Rope 0.5 m length with 2 hooks Item no.	Price each package unit 10 pieces	Rope 1.0 m length with 2 hooks Item no.	Price each package unit 10 pieces	Rope 2.0 m length with 2 hooks Item no.	Price each package unit 10 pieces
6	0699 9980	Price on enquiry	0699 9981	Price on enquiry	0699 9982	Price on enquiry
8	0699 9974	Price on enquiry	0699 9975	Price on enquiry	0699 9973	Price on enquiry
10	0699 9977	Price on enquiry	0699 9978	Price on enquiry	0699 9979	Price on enquiry

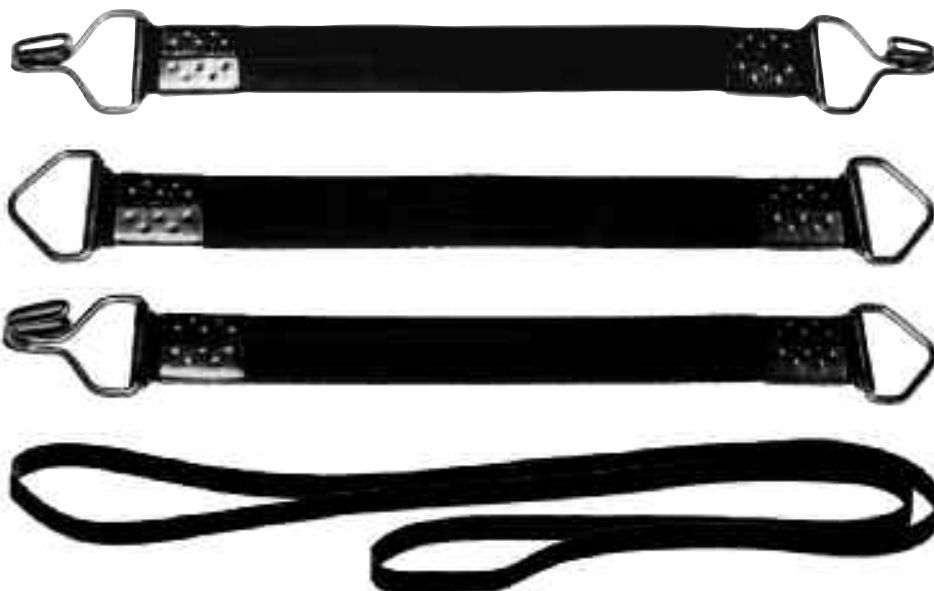
Expander / rubber ropes for self-installation

Rope diameter in mm	Rubber rope p. unit 100m, loose, Item no.	Price per 100 m package unit 100 m	Wire hooks with black plastic cover Item no.	Price each package unit 10 pieces
6	0799 9906	Price on enquiry	0699 9976	Price on enquiry
8	0799 9908	Price on enquiry	0699 9968	Price on enquiry
10	0799 9910	Price on enquiry	0699 9985	Price on enquiry



Expander straps, tailor-made

Item no.	Type	Price 1 m	Price add. metre
3635 0012	2 hooks	Price on enquiry	Price on enquiry
3635 0056	2 eyes		
3635 0016	Hooks and eyes	Price on enquiry	Price on enquiry
3635 0000	Endless		



Plastic snap hook for self assembly of rubber ropes

Item no.	for rope dia ø	Piece
0699 9951	5 - 6 mm	on enquiry
0699 9952	8 mm	on enquiry



Expander straps, for self assembly

Item no.	Item	piece
0635 0006	hooks	on enquiry
0635 0022	eyes	on enquiry
Price per 100 m		
5500 3501	Expander strap 35 mm	on enquiry

Independent installation - instructions:

- Cut the rubber profile belt to the desired length.
- Insert the rubber belt into the needed hook or eye end fitting and lock it by bending the teathed fixing elements.
- Pointed claws penetrate deep into the rubber and provide a secure grip.

PP plastic strapping belts

PET-strapping belts

Strapping machine

DoZurr

PP plastic strapping belts

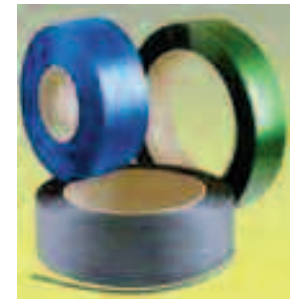
for machine and hand processing.

Polypropylene belt, colour black.
Further colours on enquiry.
High tear strength. Elastic back expansion approx. 3%.

Further dimensions and roll lengths, tension devices, rollers and buckles on enquiry.

- black colour, structured surface
- flexible, adapts to every shape
- low cost strapping
- made of environmentally friendly PP material
- strapping belts also available made of strong PET material or steel

Item no.	Belt width mm	Roll width mm	Core Ø / mm	Tear strength	Roll length / m	VE	Price 1000m
0619 8536	12	0.63	200	ca. 150kg	3000	2	Price on enquiry
0619 8537	12	0.63	280	ca. 150kg	2100	2	
0619 8525	12,7	0.50	406	ca. 170kg	2500	2	
0619 8526	12,7	0.68	406	ca. 200kg	2500	2	
0619 8527	16	0.65	406	ca. 220kg	2000	2	



PET-strapping belts

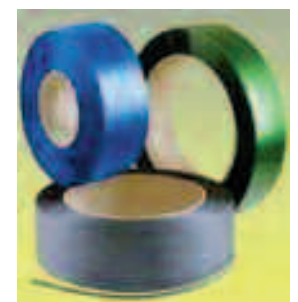
for machine and hand processing.

Polypropylene belt, colour green.
Further colours on enquiry.
High tear strength. Elastic back expansion approx. 3%.

Further dimensions and roll lengths, tension devices, rollers and buckles on enquiry.

- light and of extremely high tear strength
- resists every weather
- good alternative to steel belts
- extremely high strength in spite of low elasticity
- for securing of heavy loads

Item no.	Belt width mm	Roll width mm	Core Ø / mm	Tear strength	Roll length / m	VE	Price 1000m
06198185	12	0,60	406	ca. 270kg	2500	2	Price on enquiry
06198183	12,7	0,70	406	ca. 380kg	2000	2	
06198184	15,5	1,1	406	ca. 720kg	1000	2	



Fully automatic strapping machine with accumulator



- for the strapping of palets or other units of goods with PP or PET belts
- without line voltage
- the strapping belts are automatically tightend and frictionally welded
- operated by an accumulator
- computer-driven strapping
- tightening and welding all in one machine
- tightening is done automatically

Item no.	Price each
	on enquiry

- the belt is automatically cut off after the welding is completed
- for 13/16/19 mm width
- for 0.5-1,05 mm strength

Packaging and strapping technology

DoPack



PP adhesive tape 30 µ, roll width 50 mm, roll length 66 m

Item no.	Colour	Package unit p.u.	Price per p.u.
0618 0100	transparent	36 rolls	Price on enquiry
0618 0101	white	36 rolls	
0618 0102	brown	36 rolls	

Large rolls, colour brown

Item no.	Colour	Package unit p.u.	Price per p.u.
0618 0109	330	12 rolls	on enquiry
0618 0104	660	6 rolls	on enquiry



Packaging cords, ropes and yarns on enquiry.



Adhesive tape roller with core brake

Item no.	Price each
0618 0103	on enquiry



PP hazard warning tapes 30 µ, with black text on orange/red tape, roll width 50 mm

Item no.	Text printed	Packaging unit p.u.	Price per p.u.
0618 0105	Careful, fragile!	36 rolls	Price on enquiry
0618 0106	Careful, glass!	36 rolls	
0618 0107	Do not throw!	36 rolls	



Sharp-edge protector corners made of plastic

42 mm wide, blade length 40 x 40 mm for belt fitting up to 23 mm belt width.

Item no.	Type	Colour	Lot size per p.u.	Price per 1,000 pcs
0619 0026	without fitting mandrel	black	2000	Price on enquiry
0619 0027	with fitting mandrel	black	2000	
0619 0025	without fitting mandrel	white	2000	
0619 0024	with fitting mandrel	white	2000	



PVC packaging tape with company name on enquiry

- As advertising, information media or quality seal
- Very adhesive
- Extremely tearproof
- Rolls evenly
- 50 mm roll width, 66 m roll length, 35µ with rubber glue





Packaging and stripping technology

DoPack

Carton sealing machine model S 2

Automatic sealing machine with manual setting for cardboard boxes of one size.

- Cardboard box dimensions at least (LxWxH) 150x140x110 mm
- Cardboard box dimensions no more than (LxWxH) ∞ x 500 x 500 mm
- Adhesive tape width K11 (50 mm)
- Roll diameter max. 410 mm
- Roll bearer for 2000 m adhesive tape rolls
- Drive on top and bottom
- Adjustable centralisation device
- Lateral pressing unit
- In accordance with CE 392



Item no.	Article	Price each
0619 0301	Cardboard sealing machine	o.e.

Stretch film

- Safe pallet securing
- Optimum protection against dust and humidity
- Environmentally friendly, made of recyclable polyethylene foil

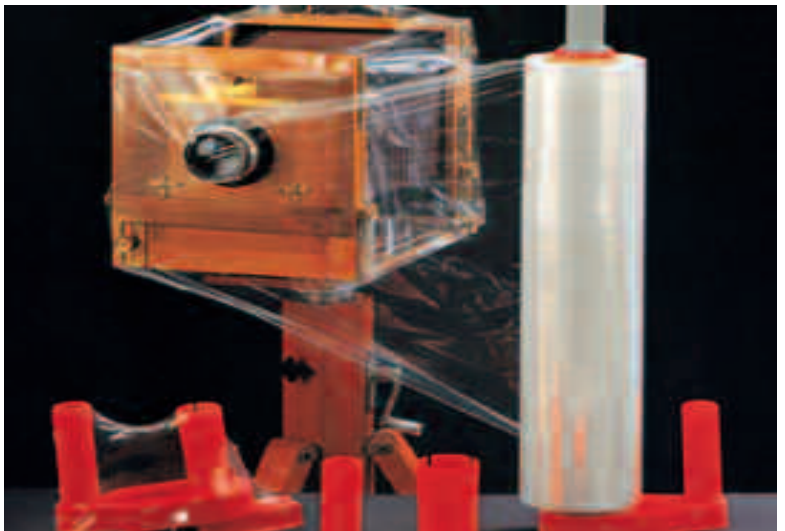
Item no.	Colour	Film thickness μ	Roll width mm	Roll length m	Packaging unit VE	Price / roll
0621 5020	transparent	20	500	300	6 rolls	o.e.
0621 5030	transparent	23	500	300	6 rolls	o.e.
0621 5031	black	23	500	260	6 rolls	o.e.



Hand stretcher

- For 500 mm foil width
- For 500 m roll length
- With detection brake
- Easy foil replacement
- For winding all standard foils

Item no.	Price
0618 0116	o.e.



Filling material shredder

produces packaging material and filling material from old cardboard boxes.

- Filling mats roaster: 4 x 110 mm
- Cutting performance of boxes: 2 - 3 layers
- Insertion width into the cutting machine: 425 mm
- Insertion height into the cutting machine: 20 mm
- Connection adapters for vacuum cleaners: 50 mm
- Cutting speed: 0.18 m /second
- Cutting performance: 5 - 7 m³ / hour
- Connection: 400 volts, 3.9 kW
- Dimensions W/D/H: 620 x 500 x 1020 mm
- Weight: 205 kg



Item no.	Item	Price piece
0619 0302	Filling material shredder	o.e.

Strapping

DoPack

OK-600 semi-automatic strapping machine



- mechanical strap tensioning from 2 - 60 kg
- strap width 6 - 15 mm
- core 200 mm
- table height adjustable from 730 - 830 mm
- package size min. 60 mm
- package weight max. 120 kg
- machine weight 100 kg
- electrical supply 240 V
- dimensions: 895 x 570 x 730 mm

Item no.	Price each
0619 0321	on enquiry

OK-610 semi-automatic strapping machine



- mechanical strap tensioning from 1.5 - 60 kg
- strap width 5 -15.5 mm
- core 200 mm
- table height 760 mm
- package size min. 60 mm
- package weight max. 120 kg
- machine weight 86 kg
- electrical supply 240 V
- dimensions: 895 x 570 x 760 mm

Item no.	Price each
0619 0322	on enquiry

OK-670 automatic strapping machine



- frame size (tunnel) 850 x 600, other frame dimensions on enquiry
- 25 strappings/min.
- mechanical strap tensioning from 5 -75 kg
- strap width 6 -16 mm (standard is 12 mm)
- core 200 mm
- manual strap threading
- package size: width 100 -825 mm, height 30 -580 mm
- table height 805 mm
- machine weight 220 kg
- electrical supply 240 V

Item no.	Price each
0619 0323	on enquiry

OK-685 fully automatic strapping machine with conveyor belts in the table and photocell control



- frame size (tunnel) 750 x 565, - other frame dimensions on enquiry
- 25 strappings/min.
- electronic strap tensioning from 5 - 75 kg
- strap width 6 - 16 mm (standard is 12 mm)
- core 200 mm
- automatic strap threading
- 8 driven straps in the table
- strapping is initiated by photocells
- the first strapping can be set freely from 80 - 200 mm, the same applies to the second strapping
- package size: width 300 -600mm, height 30 -500mm
- table height 850 mm
- machine weight 287 kg
- electrical supply 240 V

Item no.	Price each
0619 0324	on enquiry



OK-680 automatic strapping machine



- frame size (tunnel) 600 x 400
- 30 strappings/min.
- electronic strap tensioning from 5 - 75 kg
- strap width 6 -16 mm (standard is 6 mm)
- core 200 mm
- automatic strap threading
- package size: width 100 -550 mm, height 30 -375 mm
- table height 805 mm
- machine weight 170 kg
- electrical supply 240 V

Item no.	Price each
0619 0325	on enquiry

OK-682 automatic strapping machine



- frame size (tunnel) 800 x 600, other frame dimensions on enquiry
- 25 strappings/min.
- electronic strap tensioning from 5 - 75 kg
- strap width 6 -16 mm (standard is 12 mm)
- core 200 mm
- automatic strap threading
- package size: width 100 -550 mm, height 30 -375 mm
- table height 805 mm
- machine weight 190 kg
- electrical supply 240 V

Item no.	Price each
0619 0316	on enquiry

OK-690 automatic strapping machine



- for round or frame-shaped parts, e.g. cable drums; two straps, one over the other, and also oval products
- 7 strappings/min.
- mechanical strap tensioning from 5 -70 kg
- strap width 9, 12 or 16 mm (standard = 12 mm)
- ring width max. 80 mm, ring height 30 mm
- core diameter 100 mm, ring width min. 50 mm, height 60 mm
- core diameter 150 mm, other dimensions on enquiry
- maximum table load 110 kg
- table height 650
- electrical supply 240 V

Item no.	Price each
0619 0327	on enquiry

Strapping Wrapping

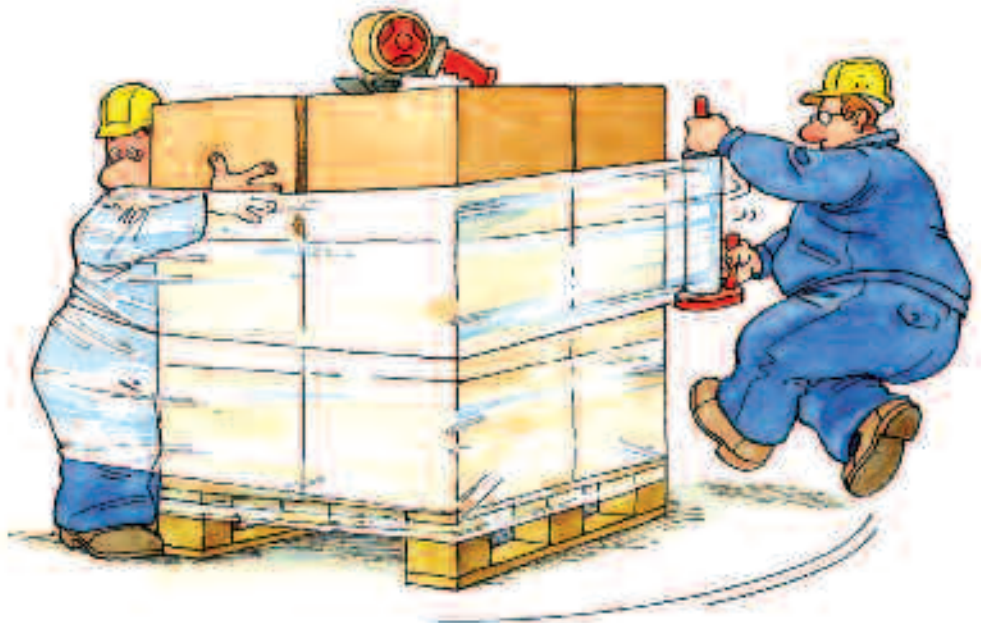
DoPack

OK-650 semi-automatic pallet strapping machine



- mechanical strap tensioning from 5 -70 kg
- strap width 6 -16 mm (standard is 12 mm)
- core 200 mm
- pallet height min. 550 mm
- blade length max. 1,000 mm
- machine weight 120 kg
- electrical supply 240 V

Item no.	Price each
0619 0328	on enquiry



OK-655 semi-automatic pallet strapping machine



- electronic strap tensioning from 5 -70 kg
- strap width 6 -16 mm (standard is 12 mm)
- core 200 mm
- pallet height min. 550 mm
- blade length max. 1,000 mm
- machine weight 110 kg
- electrical supply 240 V

Item no.	Price each
0619 0329	on enquiry

OK-2010 semi-automatic stretch wrapper

Equipment:

- adjustable turntable speed 4 - 12 rpm - with soft start and soft stop by means of frequency converter
- turntable in initial position
- pallet height monitoring by photocell
- constant foil carriage speed
- mechanical foil carriage model
- MBB with manually adjustable brake
- control panel for automatic wrapping sequence, turntable speed, number of foot and head wraps, simple wrapping, cross-wrapping
- turntable diameter: 1,500 mm
- pallet weight: up to 1,200 kg
- pallet dimensions: 1,200 x 800 mm - 1,200 x 1,000 mm
- pallet height: up to max. 2,500 mm
- supply voltage: 400 V, 50 Hz., 3 ph.
- protection class: IP 54
- colour: RAL 5014 blue, RAL 9006 alu minium white

Options:

- turntable diameter 1,650 + 2,000 mm
- access ramps
- pallet weight up to 2,000 kg
- pallet height 3,000 mm
- installation frame in the foundation for ground-level feeding
- netting foil carriage

Item no.	Price each
0619 0330	on enquiry





OK-2020 semi-automatic stretch wrapper

Equipment:

- adjustable turntable speed 4 - 12 rpm - with soft start and soft stop by means of frequency converter
- turntable in initial position
- pallet height monitoring by photocell
- constant foil carriage speed
- mechanical foil carriage model
- MBB with manually adjustable brake
- control panel for automatic wrapping sequence, turntable speed, number of foot and head wraps, simple wrapping, cross-wrapping, cover foil program – pressure plate
- relocation easily possible using forklift truck, since there are recesses in the turntable
- turntable diameter: 1,650 mm
- pallet weight: up to 2,000 kg
- pallet dimensions: 1,200 x 800 mm - 1,200 x 1,000 mm
- pallet height: up to max. 2,500 mm
- supply voltage: 400 V, 50 Hz., 3 ph.

- colour: RAL 5014 blue
RAL 9006 aluminium white
- protection class: IP 54

Optionen:

- turntable diameter 2,000 +2,400 mm
- access ramps
- installation frame in the foundation for ground-level feeding
- pneumatic pressure plate
- foil carriage type EMB with electromagnetic brake up to 120 % pre-stretching, in accordance with illustration
- foil carriage type VPT, variable pre-stretching 0 – 200 %, in accordance with illustration

Item no.	Price each
0619 0331	on enquiry



OK-2021 semi-automatic stretch wrapper, with u-shaped recessed turntable version

Equipment:

- adjustable turntable speed 4 - 12 rpm - with soft start and soft stop by means of frequency converter
- turntable in initial position
- pallet height monitoring by photocell
- constant foil carriage speed
- mechanical foil carriage model
- MBB with manually adjustable brake
- control panel for automatic wrapping sequence, turntable speed, number of foot and head wraps, simple wrapping, cross-wrapping, cover foil program – pressure plate
- relocation easily possible using forklift truck, since there are recesses in the turntable
- turntable diameter: 1,650 mm
- pallet weight: up to 2,000 kg
- pallet dimensions: 1,200 x 800 mm - 1,200 x 1,000 mm
- pallet height: up to max. 2,500 mm
- supply voltage: 400 V, 50 Hz., 3 ph.

- colour: RAL 5014 blue
RAL 9006 aluminium white
- protection class: IP 54

Options:

- turntable diameter 2,000 +2,400 mm
- access ramps
- installation frame in the foundation for ground-level feeding
- pneumatic pressure plate
- foil carriage type EMB with electromagnetic brake up to 120 % pre-stretching, in accordance with illustration
- foil carriage type VPT, variable pre-stretching 0 – 200 %, in accordance with illustration

Item no.	Price each
0619 0332	on enquiry



Container-BigBags

BigBags

Container BigBags are perfectly suitable for transport and economic storage of bulk goods of all kind, such as gravel, sand, spoil, grains and other granulated and pulverised materials. BigBags are made of weather-resistant, tearproof, shape-retaining and UV-resistant plastic fabrics.



Your benefits:

- Economic storage (several containers can be stored on top of each other)
- Safe and stable despite low own weight of no more than 3.5 kg/unit
- Advertising by printing on surface
- The BigBag floor is identical to that of the Euro pallet
- Manual, semi or fully automatic filling possible
- Available for the disposal of asbestos on enquiry
- Low-cost, lightweight and reliable

The low-cost, practical, flexible, stackable transport solution

Type A		Type B		Type C		Type D		Type E	
with filling in skirt, 4 crane slings, coated, 1000 kg load capacity, safety factor 5:1		with filling in skirt, 4 crane slings, coated, 1000 kg load capacity, safety factor 5:1		for the disposal with filling in skirts, 4 crane slings, uncoated with PE interior bag, 1,000 kg load capacity, safety factor 5:1		open at the top, 4 crane slings, uncoated, 1,500 kg load capacity, safety factor 5:1		Deposit bag for cement asbestos plates, with 4 slings on the BigBag, 4 supporting slings on the plate bag, skirt and closed floor, 1,000 kg load capacity, safety factor 5:1	
Dimensions 90x90x120 cm		Dimensions 90x90x120 cm		Dimensions 90x90x110 cm		Dimensions 90x90x90 cm		Dimensions 260x125x30 cm	
Item no. 0601 0203		Item no. 0601 0202		Item no. 0601 0204		Item no. 0601 0208		Item no. 0601 0206	
with closed floor		outlet with lacing		with closed floor		with closed floor		with closed floor	
When purchasing units		Price per unit		Price per unit		Price per unit		Price per unit	
10		Price on enquiry		Price on enquiry		Price on enquiry		Price on enquiry	
25		Price on enquiry		Price on enquiry		Price on enquiry		Price on enquiry	
50		Price on enquiry		Price on enquiry		Price on enquiry		Price on enquiry	
100		Price on enquiry		Price on enquiry		Price on enquiry		Price on enquiry	

Container BigBags

BigBag cross beams

BigBags



Do 209

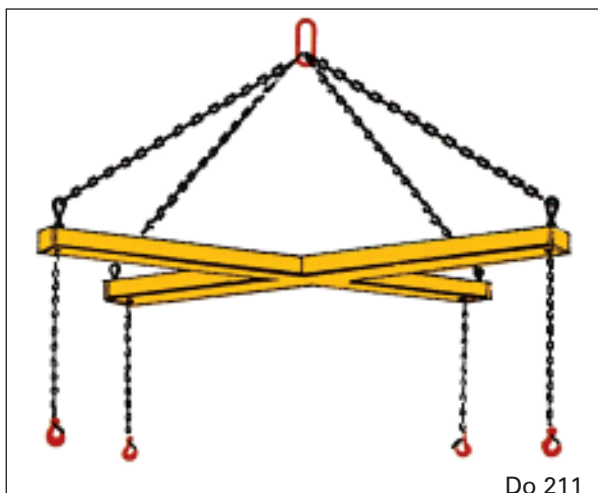
Cross beams 209, 210, 211

Type	Art. no.	Bearing capacity kg	Work dimensions mm	Weight approx. kg	Price
209	0811 0905	500	1.000 x 1.000	20	Price on enquiry
209	0811 0911	1.000	1.000 x 1.000	15	
210	0811 2105	500	1.000 x 1.000	25	
210	0811 2110	1.000	1.000 x 1.000	20	
210	0811 1050	500	1.000 x 1.000	15	
211	0811 2011	1.000	1.000 x 1.000	25	

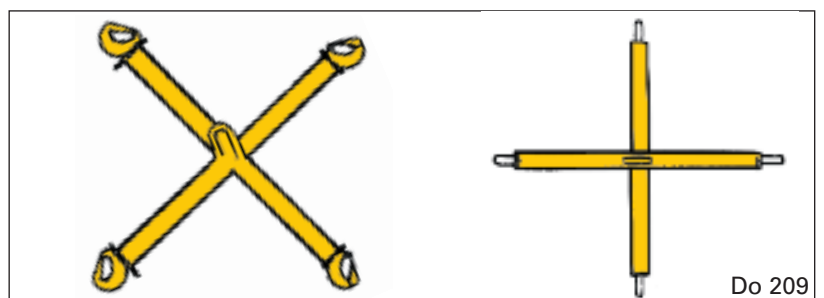


Do 210

With 4 head plates, for BigBags, easy hooking and unhooking.



Do 211



Do 209

With 4 YAS weld hooks with safety, for BigBags.

With 4-strand chain suspension or welded one-point suspension to absorb lattice boxes, BigBags, etc.

Lattice box bar

DoZurr

Lattice box clamping bar

With the new clamping bar, especially for lattice boxes, loads which are transported in not completely filled lattice boxes can be fixed quickly and effectively.

- Bulky goods can be transported blocked (form-fit) and tilt-safe in the lattice box.
- Also suitable for separating different commissions in one lattice box from one another.
- Noise is significantly reduced.



Lattice box clamping bar

Item no.	Price per unit
0616 2508	on enquiry



Your benefits:

- Adjustment range 800-850 mm
- Blocking (Form-fit)
- No tilting or skidding
- Easy handling
- Specified centre of gravity
- Added safety, in particular with stacked boxes



Personal protective gear

Nets



Shock absorber
Fall arrester
Height protection
devices
Safety harnesses
Lifting points
Securing nets
Side-protection nets
Pallet rack security nets

Personal protective gear

Using information

DoSis

Please always observe:

From a working height of 1 metre on, personal protective gear is generally prescribed when working in the industry from a height of 1 metre on, in handicraft from 2 metres and in the tiling industry from 3 metres on. Please observe the regulations (BGR 198) which apply to your area of operation.

Selection

What personal protective gear is suitable? The following bullet points help you to determine the selection:

- The gear must ensure protection against the risks, but must not cause any danger itself.
- The protective gear must be suitable for the specific use in the place of operation.
- Everybody required to wear a fall arrester must have one for sole use

Labels with the name of the user can be supplied on request.

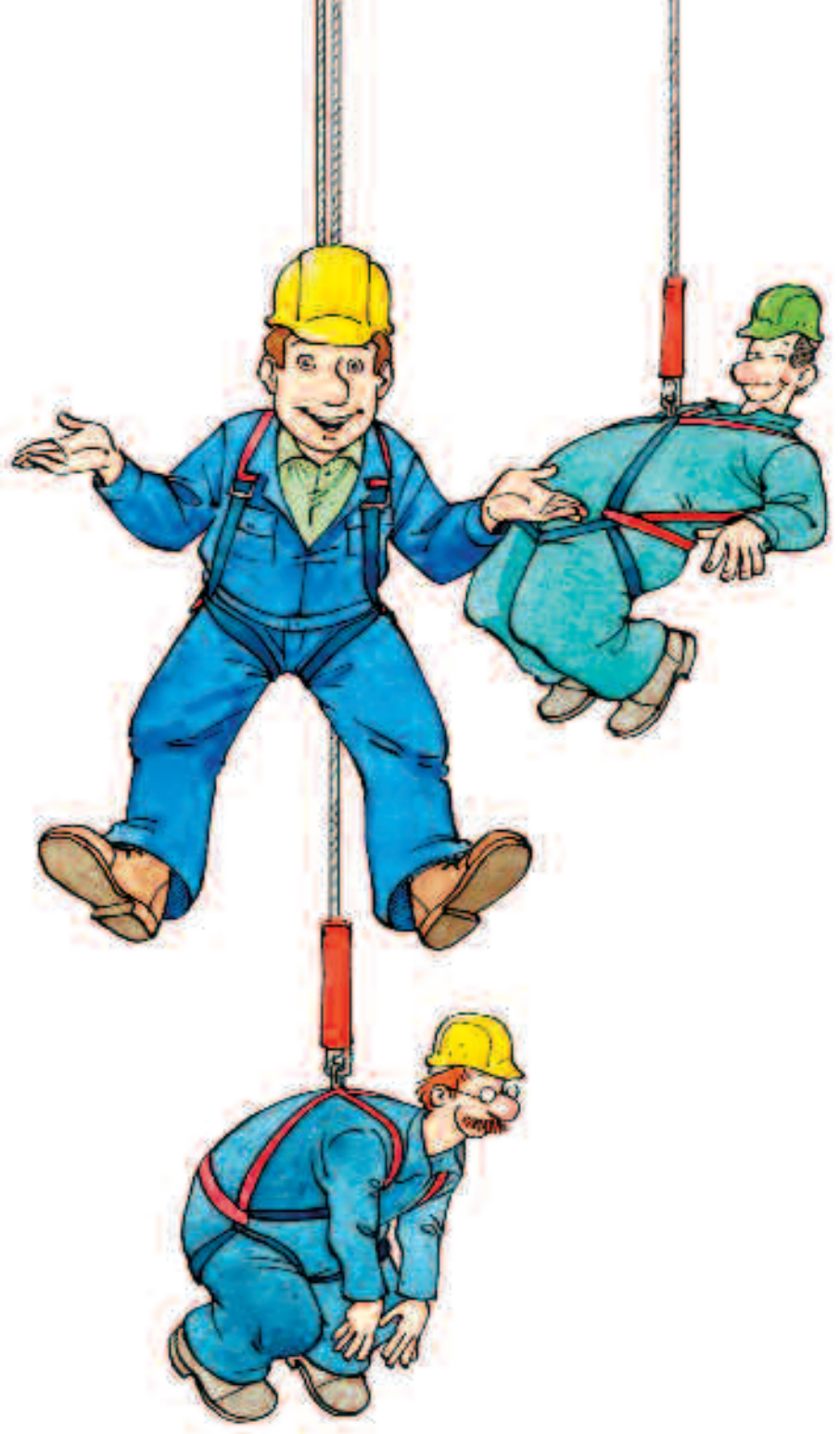
Proper condition

It applies to all components that they must be labelled with the following details:

- Name, symbol or other label of the manufacturer or supplier
- Year of production
- Type name
- Serial or production number
- CE label

Inspection

- Before every use, the gear must be checked visually for proper condition.
- The gear and the fixed guides (e.g. rails, ropes) of climbing gear must be inspected by an expert as required, but at least once a year.
- Damaged parts of the gear must immediately be replaced by OEM replacement parts.



Usage

Correct use:

- The gear is only suitable for securing persons.
- Changes of any kind to the gear are not permissible.
- Unintentional opening must be ruled out through locks (e.g. cap nuts for snap hooks, control mechanisms).

Storage

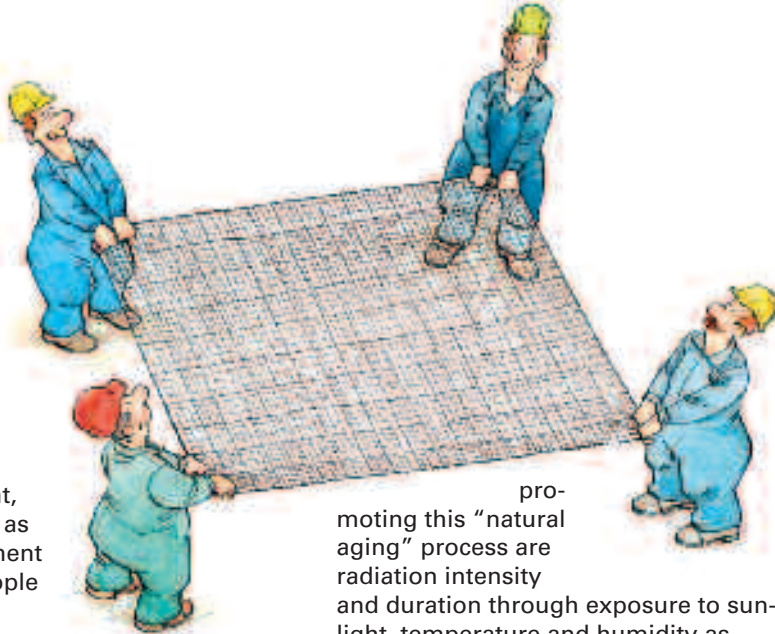
- The proper storage of the gear is clean, dry, not in immediate proximity to sources of heat, protected from direct sunlight (UV radiation).

Cleaning

- Acids, bases and other aggressive cleaning agents are not suitable. Use water only.

Further usage after extraordinary events

- Damaged gear or gear strained after falling down is only to be used after inspection and certified release by an expert.



For construction and installation works

at great height, nets are used as safety equipment to protect people from falling down. They are used in building construction, industrial buildings as well as in bridge construction to prevent the consequences of accidents, for instance over rivers, where there is a risk of drowning after falling down. Nets should be handled and stored carefully and inspected before every use. If usage is intended over a period of more than 12 months after production, the manufacturer must fit at least one inspection rope per additional year to the netting without tension but not losable to provide the user with the option of inspection. An obligation to check in the sense of the EU Directive for personal protective gear does, however, not exist for protective nets. But the general provisions regarding product liability and due diligence apply.

Usage

In rough building sites, the nets and the associated bearing constructions, including an edge rope supporting the net are subject to mechanic wear and tear. Apart from these effects, intended securing procedures for persons and objects are also to be used. Even if these strains remain below the nominal value, permanent deformations and yarn tears can be the result and may reduce the initial energy absorption capacity. Apart from the mechanic wear and tear, the photo-chemical effects of weather have a destabilising effect on the fibres. Influencing factors

promoting this "natural aging" process are radiation intensity and duration through exposure to sunlight, temperature and humidity as well as pollutants caused by industrial emissions.

Requirements

For protective nets for the use on construction sites, it generally applies that they must comply with the requirements of usability for a period of at least 12 months, i.e. they securely catch people falling from a height of 6 metres on the netting. The period starts for new nets from the date of manufacture, for older nets it is the date of the last inspection. The date of manufacture must be clear from the manufacturer's label (type plate), the date of the last inspection from the inspection plate. The requirement for the proof is a performed prototype inspection in accordance with the relevant European norm, documented by the statement of the norm name on the type plate. This means that it is possible to inspect older nets if one or more checking ropes are connected to the netting. If either one criterion is not met, the protective net must be discarded and removed. If significant reserves of energy absorption capacity have been passed or the actual duration of usage of a new net was less than one year and the temporary storage was carried out carefully, the inspection can be successfully carried out. Favourable storage conditions are regarded as the exclusion of daylight and a stable room climate with a temperature of approx. 20° C and relative

air humidity of approximately 60%. Careful storage includes the protection against any mechanical damage.

Inspection

Protective nets already used must be inspected for defects by the user before using them again. Such defects are, for instance, tears to external yarn of the mesh or edge rope, tears to the mesh rope of the edge rope and plastic deformations of the netting or the bearing elements. In cases of doubt and after using a protective net to catch a person or a heavy object, an expert must be consulted. If the date of manufacture is more than 12 months ago and if no inspection plate of a younger date is available, an inspection regarding the aging condition can be carried out using an inspection rope. To this end, an inspection rope must be taken from the netting and sent to a qualified testing institute or to the manufacturer. A positive result of the inspection is documented by affixing an inspection plate. If the condition of the net is unsatisfactory or, if after exceeding the 1-year deadline no inspecting rope is available, the protective net must be discarded. This also applies if during the inspection of the inspection rope the minimum nominal value stated on the label of the manufacturer is not met.

Fall Arrester DIN EN 361

DoAGUflex



DoAGUflex Fall Arrester are equipped with the new DuraFlex™ fibre. This makes the belt elastic so it can buckle and give way under any movement.

Benefits:

- High wearing comfort and good movability – therefore very good acceptance by the user

- Softer landing in the event of falling down
- Even when hanging in the harness for longer periods no cutting off of bloodflow to limbs

No painful cutting in in the crotch area – especially the male users do appreciate this advantage.

All DoAGUflex belts are supplied with TEFLON-treated webbing.

- extends the lifespan
- repels dirt, water, oil, grease and concrete dust
- maintains its resistance even after washing several times

DoAGUflex Standard

with safety eye in the shoulder area



Item no.	Type	Weight kg	Price EUR
4774 7910	Standard	1.2	o.e.

DoAGUflex Compact

with safety eye in the shoulder area, in the chest area with safety eye and rapeling eye.



Item no.	Type	Weight kg	Price EUR
4774 7930	Compact	1.3	o.e.

DoAGUflex Universal

with safety eye in the shoulder area, with holding eyes on either side. With numerous adjustment options and strengthened back



Item no.	Type	Weight kg	Price EUR
4774 7990	Universal	1.8	o.e.
4774 7995	with climb-protection eye		o.e.

DoEF 1 + 2 Elastic shock absorber according to DIN EN 355

The connection between lifting point and master link eye is always tense. In the event of falling down, the special fabric structure provides for a soft fall. Variants with snap hooks and optional MS 51 (DoEF I) or MH 90 (DoEF II) hooks.

Item no.	Length m	Type	Price EUR
4775 1015	1.5	DoEF 1	Price on enquiry
4775 1020	2.0	DoEF 1	
4775 5015	1.5	DoEF 2	
4775 5020	2.0	DoEF 2	





Safety vest yellow
Reflecting according to
DIN EN 471



Safety vest black

Safety vest with integrated Fall arrester in accordance with DIN EN 361

DoAGUflex

Applying the belt is simple. Just put it on like a jacket, close the leg straps – and you are ready.

DoAGUflex safety vest with Fall arrester Maximum convenience for the highest demands

Attention to detail ...



Practical pockets provide room for everything required, from gloves to mobile phones... With lateral straps to attach tool bags.

... optimum fit

Adjustment options on the side, in the shoulder and chest area provide an optimum fit of the vest.



... perfectly seated



With fasteners for easy application of the Fall arrester.

DoAGUflex vest

Item no.	Model	Price EUR
4774 7806	Vest, black	o.e.
4774 7807	Vest, yellow	o.e.

No painful cutting off of the legs and crotch area – male users in particular will appreciate this.

Light, safe, elastic and easy to put on – these are the benefits of the new DoAGUflex safety vests.

Equipped with the tried and tested DoAGUflex-Compakt Fall arrester, the Fall arrester combines top wearing convenience with maximum leeway.

Safety eyes in the shoulder and chest areas ensure variable lifting with front and rear lifting points. Numerous adjustment options for an ideal fit. Whether light summer clothes or thick winter gear – the vest adapts itself to varying conditions.

Your benefits:

- unbeaten convenience and leeway
- 100% wear rate
- simple setting and adapting of the belt straps
- softer catching in the event of a fall

DoAGUflex - set with safety vest

with elastic shock absorber DoEF II, DIN EN 355, 2 m long, with snap hooks/ pipe hooks MH 90, in a plastic case



Dolezych complete set in a metal case

Perfectly equipped at all times.

The set consists of:

- DoAGUflex Universal fall arrester
- DoBS web sling, 1.5 m

optionally with:

- Set 1:** DoStop III height protection device, 10 m
- Set 2:** DoMSK I, retractable lifelines, rope \varnothing 12 mm, 10 m long
- Set 3:** DoEF I elastic shock absorber, 2 m long



Item no.	Type	Price each EUR
4740 9931	Set 1 with DoStop III	o.e.
4740 9953	Set 2 with DoMSK I	o.e.
4740 9975	Set 3 with DoEF I	o.e.

Item no.	Model	Price each EUR
47409942	Complete set	o.e.

Safety harnesses for special applications

Secure, comfortable protection against falling for scaffold assemblers

- 2.4 m long connecting device (only for scaffold assemblers!)
- innovative safety harness for fatigue-free working
- connecting devices that guarantee freedom of movement
- edge-tested connecting devices



Revolution R2 safety harness, EN 361

Item no.	Length m	Size	Price EUR
4774 7720	0,4	S/M	o.e.
4774 7721	0,4	L/XL	o.e.



- front and rear safety eye
- edge-tested rear eye extension
- quick adjustment
- automatic catches
- protected label pocket
- comfortable back cushion
- belt end clips
- integrated accessory system
- comfortable elastic DuraFlex belt
- swivel joint connection

AGU30 safety harness, EN 361

Item no.	Size	Price EUR
4774 7833	M/L	o.e.



- front and rear safety eye
- edge-tested rear eye extension
- quick-release catches
- adjustable size

Manyard connecting device with energy absorber, EN 354 & EN 355

Item no.	Length m	Scaffold hook mm	Price EUR
4775 5220	2	63	o.e.



- edge-tested
- elastic design for more freedom of movement
- safety clip for fastening to the safety harness
- horizontal approval (attachment point at foot height)
- patented innovative energy absorber package
- Teflon-coated (longer service life)

Connecting device with energy absorber, EN 354, EN 355 & EN 1891

Item no.	Length m	Scaffold hook mm	Price EUR
4775 5320	2	63	o.e.



- edge-tested
- 12 mm core mantle rope
- horizontal approval (attachment point at foot height)
- patented innovative energy absorber package



The edge-tested connecting device also offers secure protection when used on sharp edges. The energy absorber reduces the energy that occurs during a fall (limits the catching force to less than 6 KN).



Tool bag



Item no.	Price EUR
4774 7200	o.e.

- suitable for the ratchet key
- can be fastened directly to the Revolution safety harness or with belt loop

Telephone bag



Item no.	Price EUR
4774 7201	o.e.

Hammer holder



Item no.	Price EUR
4774 7203	o.e.

Premium Set

- **Revolution R2 SCAF safety harness**

- fixed rear eye extension
- manyard connecting device with energy absorber, length 2 m, scaffold hook
- equipment bag

Item no.	bag size	Price EUR
4740 9921	S/M	o.e.
4740 9922	L/XL	o.e.

Scorpion fall limiter



Item no.	Length m	Scaffold hook mm	Price EUR
4700 0407	2,7	63	o.e.

- edge-tested
- horizontal approval (attachment point at foot height)
- fast-acting brake system
- stops within a few centimetres
- compact and light (from 1.4 kg)
- length 2.6 or 2.7 m
- corrosion-resistant material
- Teflon-coated belt (longer service life)
- 3 versions with different carabiner combinations

Bag



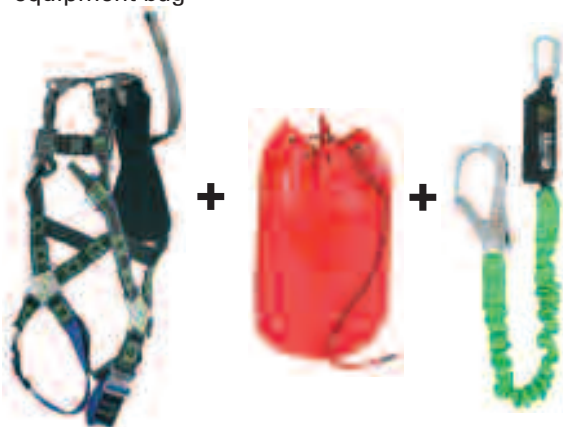
Item no.	Price EUR
4774 7204	o.e.

Standard Set

- **AGU30 VB safety harness**

- fixed rear eye extension
- manyard connecting device with energy absorber, length 2 m, scaffold hook
- equipment bag

Item no.	bag size	Price EUR
4740 9932	M/L	o.e.



Die Sets sind nur für Gerüstbaumonteur zugelassen

Fall arrester DIN EN 361

DoAGU

Dolezych Fall arrester made from top-quality webbing embrace the body so that a falling person is caught safely. The occurring falling force is transferred to the belt straps in a targeted manner and the body is kept in an upright position.

The selection of the Fall arrester is oriented towards your type of activity and the existing lifting types. Fall arrester are normally used with safety eyes on the rear.

If, however, the lifting point is right in front of you or to your side, you should use a Fall arrester with safety eyes in the chest area.



DoAGU Universal S (no image)

with climb safety eye in the hip or stomach area for lifting on an existing climb protection gear

Item no.	Type	Weight kg	Price EUR
4774 7895	Universal S	1.4	o.e.

DoAGU Standard

Low-cost and compact belt without setting options for roofers, carpenters, etc., safety eye in the shoulder area

DoAGU Universal

Standard belt with varied adjustment options. For steel workers, channel diggers, roofers, carpenters, etc., safety eye in the shoulder area and holding eyes on both sides

DoAGU Kompakt

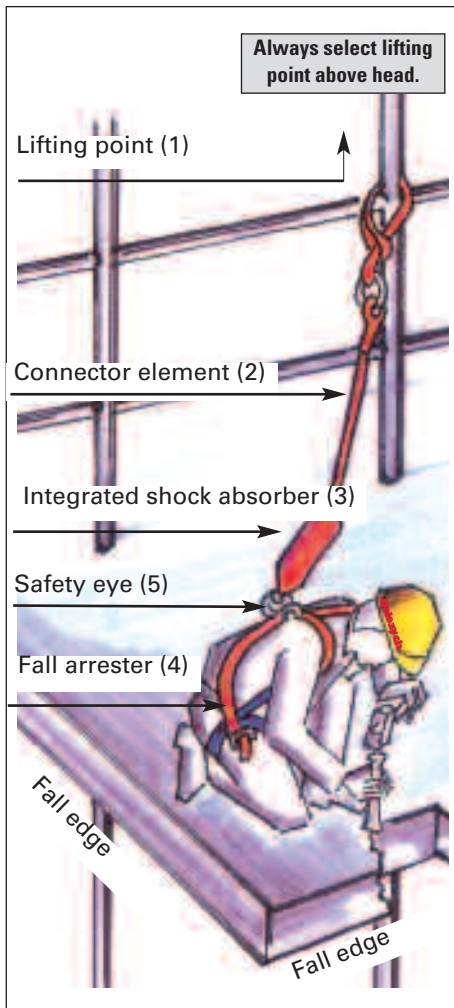
Preferable for work where the tools are worn on the back, e.g. facade cleaning, etc. with safety eye in the shoulder area, in the chest area with safety eye and lowering eye.



Item no.	Type	Weight kg	Price EUR
4774 7810	Standard	1.1	o.e.

Art. no.	Type	Weight kg	Price EUR
4774 7890	Universal	1.5	o.e.

Item no.	Type	Weight kg	Price EUR
4774 7830	Kompakt	1.2	o.e.



Dolezych shock absorber reduce the falling force in the event of a fall to a physically bearable value. This happens either through friction in the fall absorber snap hook (**DoRFD**) or through energy-absorbing opening of the protective cover and the associated elongation of the shock absorber (**DoBFD 1 or 2**).

Dolezych - connecting devices (2) consist of a twisted polyamide rope (S 12 or S 16) or of a core shroud rope (SK 12). They provide a safe connection between the Fall arrester (4) and the lifting point (1). They are used as a shorter connector element between the safety eye (5) of the belt and the lifting point. The integrated fall absorber (3) reduces the fall forces occurring during a fall.

*.. =please ad the Item no. with the lengths: e.g. DoRFD S 12, L = 1.5 m: 4775 3015. Standard lengths for DoRFD S 12: 1.5; 2.0 m.



Connector element DIN EN 354 Shock absorber DIN EN 355

**DoViB, DoRFD
DoBFD**

Connecting devices with integrated with DoViB shock absorber

Choose your model	Name	Item no.*	Price EUR	
			1,5 m	2,0 m
	Snap hook MS 51 (when snapped into existing lifting eye)	DoViB S12	4775 20..	Price on enquiry
		DoViB S16	4775 60..	
		DoViB SK12	4772 20..	
	Hand sling (when a hook is available as lifting point)	DoViB S12	4775 21..	Price on enquiry
		DoViB S16	4775 61..	
		DoViB SK12	4772 21..	
	Pipe hook MH 90 (for lifting on structure pipes)	DoViB S12	4775 22..	Price on enquiry
		DoViB S16	4775 62..	
		DoViB SK12	4772 22..	
	Aluminium snap hook DIN 5290 (hooking into previous lifting eye)	DoViB S12	4775 23..	Price on enquiry
		DoViB S16	4775 63..	
		DoViB SK12	4772 23..	

* .. = please add the Item no. with the length: e.g. DoViB with SK12 and hook MS51, L = 1.5m: 47722015. Standard lengths for DoViB: 1.5; 2.0 m.

DoBFD 1 shock absorber

Name	Item no.	Price /EUR
DoBFD 1	4755 0105	o.e.

0.5 m, with MS 51 snap hook on both sides



Polyester belt strap 50 mm wide

DoBFD 2 shock absorber

Name	Item no.	Price /EUR
DoBFD 2	4755 0205	o.e.

0.5 m, with snap hook and D-ring



Polyester belt strap 50 mm wide

DoRFD friction shock absorber

Name	Item no.*	Price EUR	Price EUR
		1,5 m	2,0 m
DoRFD S 12	4775 30..	Price on enquiry	
DoRFD S 16	4775 40..	Price on enquiry	

Polyamide rope 12 oder 16 mm ø with shock absorber snap hook and aluminium snap hook, DIN 5290

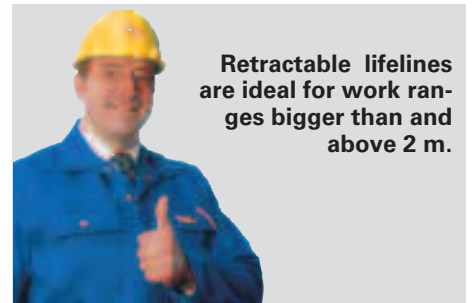
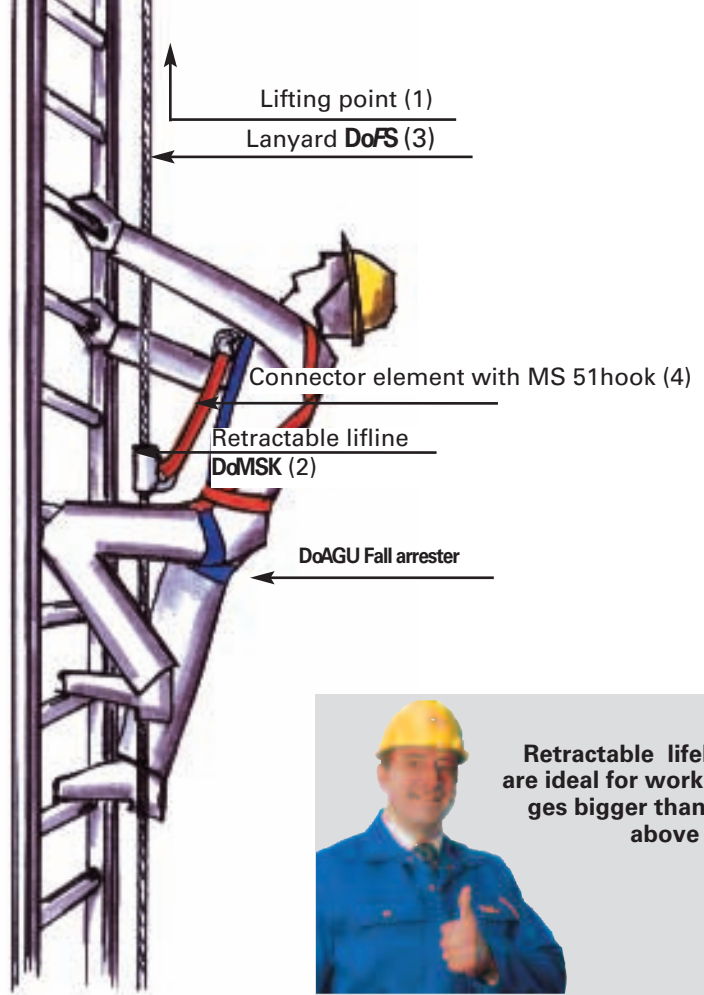


Retractable lifelines on mobile leads (lanyards) DIN EN 353-2

DoMSK

Dolezych lanyards (2) always keep the connection (4) to the lifting point (1) tight. Running on a polyamide safety rope (3), S 12 or S 16m they ensure best possible leeway in all working positions. Both **DoMSK I** and **DoMSK II** as well as the **DoMSK III** device are removable from the lanyard and work with a special brake mechanism. It reduces the occurring falling force during a fall to a physically bearable value.

Your advantage: You do not need an additional shock absorber!



Retractable lifelines are ideal for work ranges bigger than and above 2 m.

DoMSK I

Item no.	Model	Rope diameter in mm	Price 5 m EUR	Price additional meter EUR
4753 1...	S 12	12	o.e.	o.e.
4753 7...	S 16	16	o.e.	o.e.

Equipment: Guide rope (3) with one-side MS 51 hook for fitting to lifting point, other side end lock. Automatic retractable lanyard (2) made from powder-coated stainless steel. 0.5 m polyester rope as connector element (4).

Area of application: **DoMSK I** is especially recommended for constant change of the working height, as the device retracts automatically on the lanyard.



DoMSK II

Item no.	Model	Rope diameter in mm	Price 5 m EUR	Price additional meter EUR
4754 7...	S 14	14	o.e.	o.e.

Equipment : Guide rope (3) with one-side screw snap hook for fitting to the lifting point, other side end lock. Manually adjustable lanyard made from powder-coated stainless steel, with retainer. 0.6 m polyester rope as connector element (4).

Area of applicatoin: **DoMSK II** is recommended particularly when working at great heights. Arrest can be triggered automatically when changing position.

How to place your order:

... = please add lenght to the Item no. : e.gB.

DoMSK II, L = 15.0 m: 47547150 . Standard lengths for **DoMSK I** and **DoMSK II**: 5 m; 10 m; 15 m; 20.



Retractable lifelines on mobile leads (lanyards) DIN EN 353-2

Guide ropes

DoMSK / DoFS

DoMSK III, lanyard for DoFS guide ropes













Item no.	Name	Price each EUR
4759 1602	DoMSK III	o.e.

Equipment: Lanyard (2) made from stainless steel, settings optionally automatically retractable or manually locking. Easy to remove from the rope, 0.5 m shock absorber as connector element (4).

Area of application: DoMSK III is the universal alternative. The device can be switched from retractable to locking. The guide rope can easily be replaced by the user. Please note: Only guide ropes approved for the system may be used.

Guide ropes DoFS DIN EN 353-2 made from polyamide, 16 mm ø

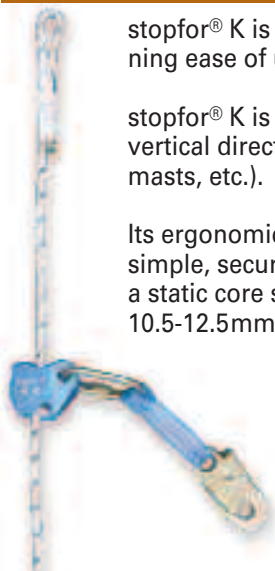


Item no.	Model	Fitting variants		Price 5 m EUR	Price add. m EUR
		one side	other side		
47116...	DoFS I	 MS 51 snap hook	 MS 51 snap hook		
47216...	DoFS II	 MS 51 snap hook	 back splice	Price on enquiry	Price on enquiry
47316..	DoFS III	 MS 51 snap hook	 hand sling		
47416...	DoFS IV	 MH 90 pipe hook	 back splice		
47516...	DoFS V	 MH 90 pipe hook	 hand sling		

The guide rope must be kept tight by fitting to the ground or hanging a weight (approx 10 kg).

... = please add the Item no. with the length: e.g. **DoFS II**, L = 10.0 m: 47216100. Standard lengths for DoFS: 5m, 10m, 15m, 20m.

stopfor® K, safety device according to EN 353-2



stopfor® K is a new retractable safety device combining ease of use and excellent running properties.

stopfor® K is designed for use at work and access in vertical direction (ladders, structures, towers, masts, etc.).

Its ergonomic and solid construction allows a simple, secure and fast fitting of the device on a static core shroud guide rope (diameter 10.5-12.5mm).

Item no.	Rope-ø in mm	Name	Price 5 m EUR	Price add. meter EUR
4752 1...	11	stopfor K	o.e.	o.e.

stopfor® K revolutionises:
new blocking mechanisms without clamping jaws.

stopfor® K sets new standards:
locking the device by hooking on of a snap hook, this increases the safety in use.

... = Please add desired length to Item no.:
e.g. **stopfor K**, L = 15,0 m: 47521150.
Standard length for stopfor K: 5m, 10m, 15m, 20m!

Height protection devices DIN EN 360 at variable working heights, usable horizontally and vertically

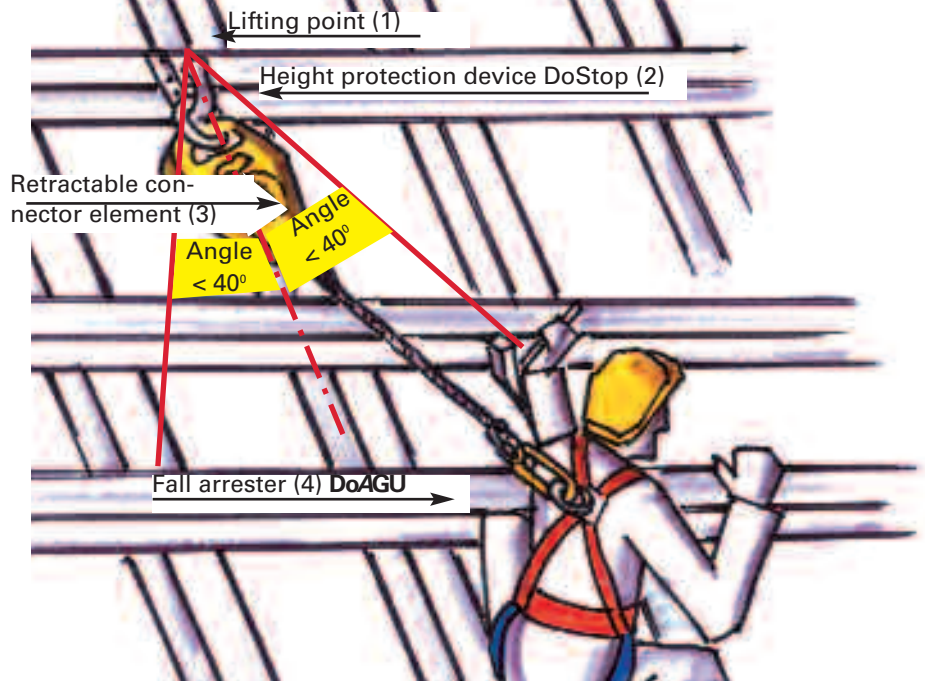
DoStop

Dolezych height protection devices

DoStop (2) have a retractable connector element (3) which is permanently kept tight with automatic rope or belt strap feeder.

DoStop is fitted overhead on the lifting point (1) and is therefore always your area of work. **DoStop** allows limited lateral movements.

Your advantage:
maximum leeway.



The **DoStop** height protection device range offers extraction lengths of the connecting devices from 3.1 to 30 m.

By using top-quality materials for housing, connecting devices and swivel snap hooks, Dolezych guarantees top security and ease of use.

Important, please note:

With greater lateral movement, the falling distance and the pendicular risk do increase. The angle to the vertical should therefore not exceed 40°.

DoStop I, Height protection device with belt strap, breakproof case

Item no.	Connector element material / thickness	Length in m	Weight kg	connecting devices	Price EUR
4700 0101	Belt strap 25 mm width	2.0	ab 0,86	Twist-lock-snap-hook/ snap-hook	Price on enquiry
4700 0102	Belt strap 25 mm width	2.0	ab 0,86	Twist-lock-snap-hook/ Scaffold hook	
4700 0103	Belt strap 25 mm width	2.0	ab 0,86	2 x Scaffold hook	
4700 0104	Belt strap 25 mm width	2.0	ab 0,86	Scaffold hook/ Twist-lock-snap-hook	





DoStop II



If there is any risk that in the event of a fall the connector element will be pulled across sharp edges (e.g. profiled sheeting), the devices must be used with 5 mm rope diameters (e.g. DoStop II)

DoStop II with galvanized wire rope, up to a length of 16 m, steel case

Item no.	Connector element material / diameter	Length in m	Weight kg	Dimensions LxWxH in mm	Price EUR
4700 0206	Galv. wire rope, 5 mm 6x19 + IWRC	5.0	5.0	275 x 160 x 84	o.e.
4700 0212	Galv. wire rope, 5 mm 6x19 + IWRC	16.0	11.0	385 x 240 x 140	o.e.



DoStop III

DoStop III with galvanized wire rope, up to 30 m in length, shock-proof composite or aluminium case*

Item no.	Connector element material / diameter	Length in m	Weight kg	Dimensions LxBxH in mm	Price EUR
4700 0310	Galv. wire rope, 4 mm 6x19 + IWRC	10.0	4.3	300 x 195 x 75	Price on enquiry
4700 0320	Galv. wire rope, 4 mm 6x19 + IWRC	20.0	7.6	400 x 255 x 100	
4700 0330	Galv. wire rope, 4 mm 6x19 + IWRC	30.0	14.20	600 x 300 x 130	

* for 30-m device



Safety systems with height protection devices must not be used when working above materials such as liquids or bulk goods, where you can sink in. The delayed fall in this case prevents the triggering of the brake mechanism.

Height protection devices DIN EN 360 at variable working heights, usable horizontally and vertically

DoStop



New, revision-free generation.

Your benefits:

Improved safety

- Easily identifiable **fall indicator** on the automatic snap hook. Indicates when the device needs to be inspected.
- **Quick response braking system.** Catches a fall within a few centimeters in order to ensure fast and safe rescue.
- **Two swivels** (on the top of the case and on the lower automatic snap hook) available for these models in order to prevent the rope from twisting.
- Tested and approved for **horizontal applications***.

Increased resistance

- **High-quality corrosion resistance** stainless steel and aluminium components ensure a longer lifecycle and lower replacement costs.
- **No annual revision required by the manufacturer**.** Reduces operating costs, no loss of application.

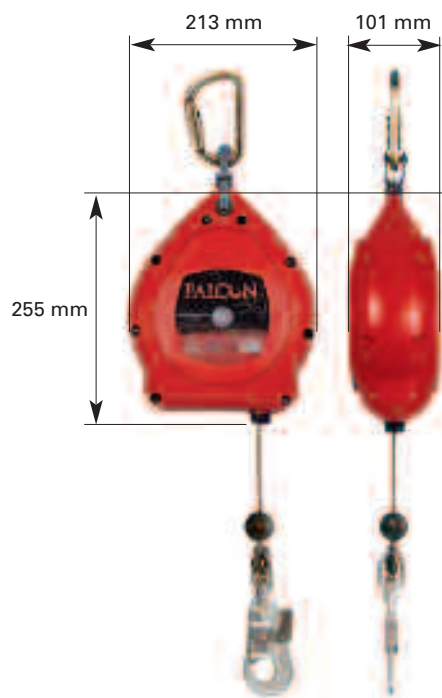
Optimum handling

- **Light and solid composite material device** for simple handling and easy transportation.
- Integrated, ergonomically shaped handle on the 15 and 20-m devices ensure a secure grip on the lifting point and fast use. Easy installation.
- **One-time system for rope extraction.** Reduces the wear and tear of the insertion socket and rope and ensures friction-free operation with a low resistance.
- Friction-free resistance and **quiet operation. Optimised spring tension** to prevent too great drag on the user. Improves productivity and reduces symptoms of fatigue.

* When used with a CS20 snap hook and a 1-m anchor sling made from steel.

** According to CE norm, verification by an expert is necessary.

6.2 and 10-m models



15 and 20-m models



DoStop IV Typ Falcon, height protection devices, galvanised wire rope 4.5 mm, with automatic snap hook and twist lock snap hook

Item no.	Length in m	Weight kg	Dimensions (L x W x D) in mm	Price EUR
4700 0762	6,2	4,1	255 x 213 x 101	Price on enquiry
4700 0710	10,0	5,0	255 x 213 x 101	
4700 0715	15,0	6,7	342 x 246 x 101	
4700 0720	20,0	7,7	342 x 246 x 101	

DoStop IV Typ Falcon, height protection devices, wire ropes 4.5 mm, stainless steel, with automatic snap hook and twist lock snap hook

Item no.	Length in m	Weight kg	Dimensions (L x W x D) in mm	Price EUR
4700 0862	6,2	4,1	255 x 213 x 101	Price on enquiry
4700 0810	10,0	5,0	255 x 213 x 101	
4700 0815	15,0	6,7	342 x 246 x 101	
4700 0820	20,0	7,7	342 x 246 x 101	

These models are also available without connecting elements. According to the applicable requirements as per CE, OSHA, ANSI and CSA.

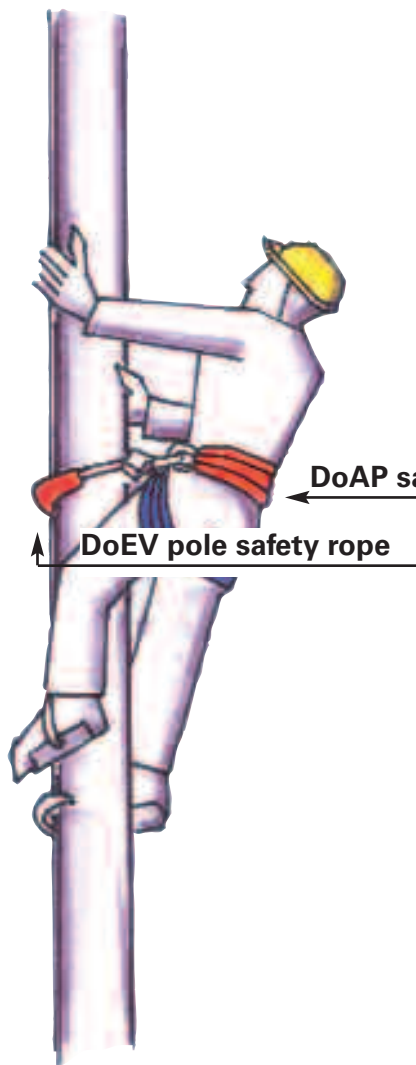
Holding systems for workplace positioning



Note: For slipping dangers, holding ropes with shock absorbers must be used.

Safety systems DIN EN 358

DoAP / DoEV



DoAP safety harness

DoEV pole safety rope

DoEV pole safety rope

with 16 mm polyamide rope, lanyard made from stainless steel, incl. 0.5 m rubbing protection

Item no.	Length	Price EUR
4799 2015	1.5 m	o.e.
4799 2020	2.0 m	o.e.



The setting device is connected to a safety eye of the harness with a snap hook. The safety rope is then wrapped around the pole and the other end is hooked into the opposite safety eye.

Dolezych Safety systems are **DoAP** safety harnesses with or without holding rope and **DoEV** length-adjustable pole safety ropes.

Holding systems must be used for workplace positioning (e.g. for maintenance on poles) only and thus enable fast, free-hand and safe work in comfortable working positions.

The back supports in the DoAP safety harnesses and the easily adjusted setting devices in the DoEV pole safety ropes provide added convenience. Please note that such back support gear may only be used without Fall arrester if there is no risk of falling down.

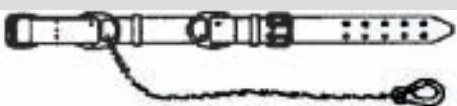
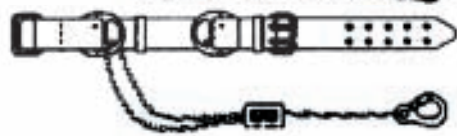

If there is a risk of falling down, a Fall arrester with integrated safety harness function, e.g. DoAguflex Universal, must be used cf. p. 194, or DoAgu Universal p. 196.

Standard sizes for safety harnesses

Size	Belt length in mm	Chest/body size in mm
1	1300	800 - 900
2	1400	900 - 1000
3	1500	1000 - 1000
4	1600	1100 - 1200

Special sizes can be supplied on request.

DoAP safety harnesses with two-thread buckle, polyamide belt strap 85 mm

Model	Type	Size	Item no.	Price	Item no.	Price
			with back support	EUR	without back support	EUR
	Safety rope not adjustable, 1 m using length, 2 fixed safety eyes	1	47747111	Price on enquiry	47747011	Price on enquiry
		2	47747112		47747012	
		3	47747113		47747013	
		4	47747114		47747014	
	Safety rope adjustable, 1.4 m using length, 2 fixed safety eyes	1	47747311	47747211		
		2	47747312	47747212		
		3	47747313	47747213		
		4	47747314	47747214		
	Without rope, with 2 fixed safety eyes	1	47747511	47747411		
		2	47747512	47747412		
		3	47747513	47747413		
		4	47747514	47747414		

Mobile horizontal safety system DIN EN 795b Lifting gear class B

DoSis

Application

- The belt strap slings are attached to a suitable lifting point (e.g. pillar).
- Every lifting point must resist at least 10 kN.
- The snap hooks of the tension gear and the rope are fitted to the webbing eyes or to fixed lifting points.
- Pull the rope manually through the tension gear until slight tension is achieved.
- Insert the lever into the tension gear.
- Operate the tension gear until no resistance remains, i.e. until the tension gear spins. The tension of the rope is now sufficient.
- The mobile horizontal safety system must be used by one person only.
- The max. work length is 20 m.
- Observe falling heights:
When using a 10-m rope, the rope can bend by up to 1.05 m when falling. When using a 20-m rope, a rope bend of up to 2.10 m can occur.
- The lifting tool of the connector element (e.g. structure hook or snap hook) is directly attached to the rope so that free sliding is possible.



Scope of delivery

- 14 mm core shroud rope with 2 connecting devices
- Tension gear with lever for rope tensioning
- 2 lifting slings (1.5 m each)
- Transport and storage box

Mobile horizontal safety system

Item no.	Rope length in m	Price each EUR
4756 0020	20	o.e.

Lifting points,
mobile, stationar

Sliding safety

DoSis

DoSis combination tripod with rescue lifting gear ... if no lifting point is available.

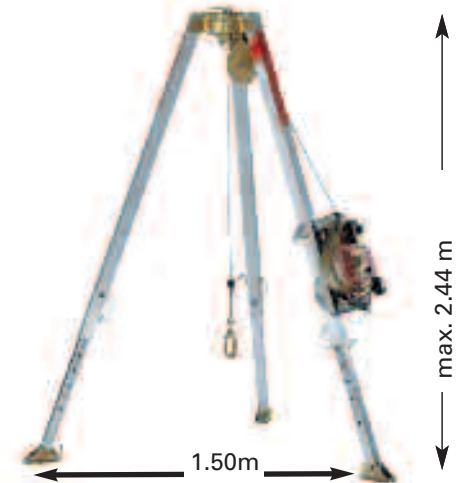
Item no.	Rope length in m	Weight in kg	Price pc. EUR
4756 0016	16	45.0	o.e.
4756 0030	30	53.5	o.e.

Ideal for usage during maintenance and installation works in frequently changing locations if no permanent safety equipment, e.g. lifting points, walkways, climbing protectiones, etc. are installed. The tripod as per EN 795 B as a mobile lifting device offers top flexibility. In interaction with a combination of height protection device as per EN 360 and rescue lifting gear as per EN 1496 the user is provided with a safe and universal tool.

Delivery includes harness for fitting to the tripod.

Note: May only be used in connection with a fall arrester as per DIN EN 361.

Ideal for usage in channel construction, civil engineering, etc.



Single lifting point as per DIN EN 795, class A

Made from aluminium, suitable for use in interior and exterior areas. With two borings for fitting on horizontal, vertical and suitable surfaces, e.g. on poles or turrets, on window openings, on the ceiling or wall.

Optional colours: aluminium nature, black, white or red



Item no.	Width in mm	Height in mm	Material thickness on borings	Distance between borings	Price/pc. EUR
4756 0099	130	60	13 mm	100 mm	o.e.

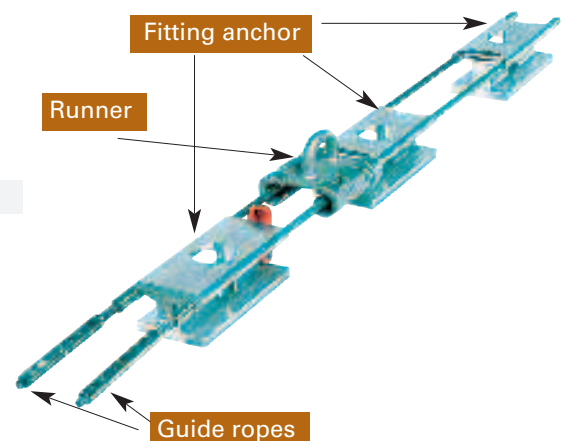
DoSis horizontal sliding safety against falling as per DIN EN 795, class C

A reliable and safe solution against falling down. Ideal for usage on roofs or workshops, on hall or gantry crane systems, on bridges, telecommunication towers and on all other places where there is a risk of falling down.

The system consists of:

- Slider with an eye for lifting the personal protective gear
- Two guide ropes where the runner glides along (glides across the anchor)
- Anchor for rope fitting

Prices on request.



Security nets as per EN 1263-1, Type S

Netze

Security nets EN 1263-1

Catch nets offer fall protection for persons and objects.



Safety net without thimbles

made from extremely solid polypropylene, approx. 5 mm thick, with 12 mm edge rope allround, square mesh design, without thimbles, the edge rope is fitted on the lifting point directly with a 12-mm polyamide rope. (formerly: shape C)

Item no.	Dimensions in m	Mesh width in mm	Energe absorbtion in KJ	Price each EUR
6771 1111	5,0 x 5,0	100	2,3	Price on enquiry
6771 1611	5,0 x 5,0	60	4,4	
6771 1411	5,0 x 5,0	45	4,0	
6771 1613	5,0 x 10,0	60	4,4	
6771 1413	5,0 x 10,0	45	4,4	
6771 1114	5,0 x 15,0	100	2,3	
6771 1614	5,0 x 15,0	60	4,4	
6771 1414	5,0 x 15,0	45	4,4	
6771 1618	10,0 x 10,0	60	4,4	
6771 1418	10,0 x 10,0	45	4,4	

Security net with thimbles

made from extremely solid polypropylene, approx. 5 mm thick, with 12 mm edge rope allround, square mesh design, thimbles on the edges and the sides at a distance of 2.5 m. (formerly: shape A)

Item no.	Dimensions in m	Mesh width in mm	Energe absorbtion in KJ	Price each EUR
6763 1111	5,0 x 5,0	100	2,3	Price on enquiry
6763 1611	5,0 x 5,0	60	4,4	
6763 1411	5,0 x 5,0	45	4,4	
6763 1113	5,0 x 10,0	100	2,3	
6763 1613	5,0 x 10,0	60	4,4	
6763 1413	5,0 x 10,0	45	4,4	
6763 1118	10,0 x 10,0	100	2,3	
6763 1618	10,0 x 10,0	60	4,4	
6763 1418	10,0 x 10,0	45	4,4	

Safety nets without thimbles at special prices

- 100 mm mesh width
- 2.3 KJ energy absorption

Item no.	Dimensions in m	Price each EUR
6771 1113	5,0 x 10,0	Price on enquiry
6771 1118	10,0 x 10,0	
6771 1175	7,5 x 15,0	
6771 1190	9,0 x 15,0	

Net colour green

Safety net installation



Gator-Grip is a net retaining device for side-protection and catch-nets.

- acc. to 1263-1
- designed to be used on C and I-section steel beams
- suitable for narrow beams
- can be installed with only one hand

Item no.		Price each EUR
6799 9907	Gator-Grip	o.e.

Annual check

Every catching and side-protection net bears the name of the manufacturer and supplier. In addition, the year and month of manufacture and the name as per EN 1263-1, the article-name and the minimum energy consumption capacity can be seen. The annual inspection is carried out by sending us one of the interwoven test threads to check the maximum yarn drag and pull force.



Effective fall absorbers on scaffolding

Side-protection nets as per EN 1263-1

Netze

New: no risk of corrosion, solid plastic, easy handling, safety even in dirtiest conditions.



Side-protection nets as per EN 1263-1

Side-protection belts offer construction workers on scaffolding ideal fall protection and also protect against falling objects. The special benefits are a low weight, minimum space requirements and a fast installation.

Side-protection nets at special prices

- 100 mm mesh width
- 2.3 KJ energy absorption
- Net colour green

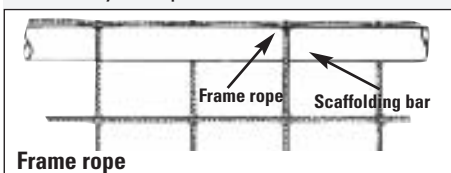
Item no.	Dimensions in m	Model	Price each EUR
6752 1130	2.0 x 5.0	with mounting belts	Price on enquiry
6751 1130	2.0 x 5.0	without mounting belts	
6752 1140	2.0 x 10.0	with mounting belts	
6751 1140	2.0 x 10.0	without mounting belts	

Scaffold protection, cover with eyelets

Item no.	Dimensions in m	Price each EUR
6702 6001	2,1 x 10,0	Price on enquiry
6702 6002	2,6 x 10,0	
6702 6003	2,6 x 20,0	
6702 6004	3,1 x 10,0	
6702 6005	3,1 x 20,0	

Side-protection net

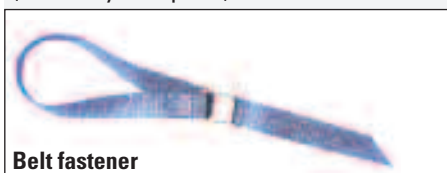
Type U, made from extremely solid polypropylene, approx. 5 mm thick, with sewn in frame rope allround (formerly: shape D)



Item no.	Dimensions in m	Mesh width in mm	Energy absorption in KJ	Price each EUR
6751 1110	1,5 x 5,0	100	2,3	Price on enquiry
6751 1610	1,5 x 5,0	60	4,4	
6751 1410	1,5 x 5,0	45	4,4	
6751 1120	1,5 x 10,0	100	2,3	
6751 1620	1,5 x 10,0	60	4,4	
6751 1420	1,5 x 10,0	45	4,4	
6751 1630	2,0 x 5,0	60	4,4	
6751 1430	2,0 x 5,0	45	4,4	
6751 1640	2,0 x 10,0	60	4,4	
6751 1440	2,0 x 10,0	45	4,4	

Side-protection net

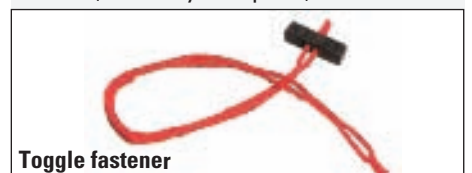
Type U, made from extremely solid polypropylene, approx. 5 mm thick, with sewn in belt fastener every 75 cm (formerly: shape D)



Item no.	Dimensions in m	Mesh width in mm	Energy absorption in KJ	Price each EUR
6752 1110	1,5 x 5,0	100	2,3	Price on enquiry
6752 1610	1,5 x 5,0	60	4,4	
6752 1410	1,5 x 5,0	45	4,4	
6752 1120	1,5 x 10,0	100	2,3	
6752 1620	1,5 x 10,0	60	4,4	
6752 1420	1,5 x 10,0	45	4,4	
6752 1630	2,0 x 5,0	60	4,4	
6752 1430	2,0 x 5,0	45	4,4	
6752 1640	2,0 x 10,0	60	4,4	
6752 1440	2,0 x 10,0	45	4,4	

Side-protection net

Type U, made from extremely solid polypropylene, approx. 5 mm thick, with sewn in toggle fastener every 75 cm (formerly: shape D)



Item no.	Dimensions in m	Mesh width in mm	Energy absorption in KJ	Price each EUR
6753 1110	1,5 x 5,0	100	2,3	Price on enquiry
6753 1610	1,5 x 5,0	60	4,4	
6753 1410	1,5 x 5,0	45	4,4	
6753 1120	1,5 x 10,0	100	2,3	
6753 1620	1,5 x 10,0	60	4,4	
6753 1420	1,5 x 10,0	45	4,4	
6753 1130	2,0 x 5,0	100	2,3	
6753 1630	2,0 x 5,0	60	4,4	
6753 1430	2,0 x 5,0	45	4,4	
6753 1140	2,0 x 10,0	100	2,3	
6753 1640	2,0 x 10,0	60	4,4	
6753 1440	2,0 x 10,0	45	4,4	

Pallet rack security nets

Netze

In rack systems which are loaded and unloaded from one side only, the pallet safety nets provide optimum protection against falling objects.

They protect against damage to persons and property in day-to-day business and are characterised, in particular, by a low weight and simple installation.

The installation is usually carried out flush with belt fasteners in net colour.

Depending on size and weight of the goods to be secured, we provide nets in various yarn thicknesses and mesh widths.



Pallet rack safety nets made from polypropylene, solid, knot-free

Item no.	Material thickness in mm	Mesh width in mm	Colour	Price per m ² EUR
6750 0035	5	100	green	Price on enquiry
6750 0036	5	100	blue	
6750 0037	5	100	black	
6730 0038	3	45	green	
6730 0310	3	45	blue	
6730 0048	3	45	black	
6723 0451	2.3	45	green	
6723 0452	2.3	45	black	
6718 0251	1.8	25	black	

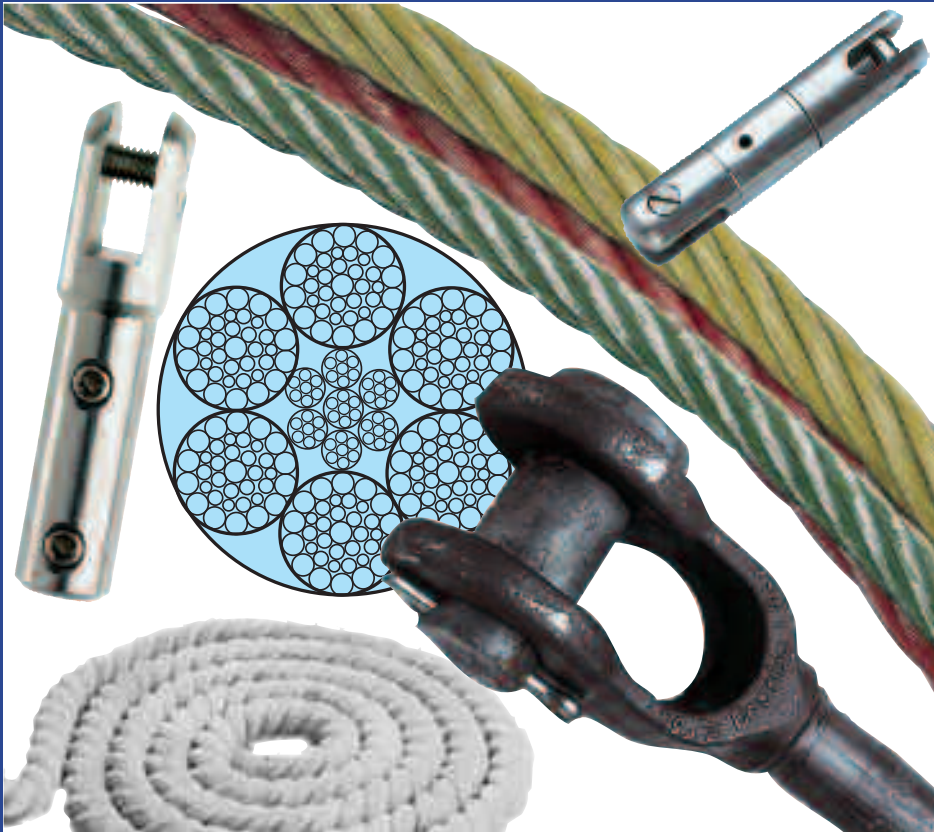


Accessories: lashing system, 25 mm, one part cam buckle, length 55 cm

Item no.	Colour	Price each EUR
1625 0254	green	Price on enquiry
1625 0255	blue	
1625 0256	black	



Ropes



Wire rope slings

Crane ropes

Rope accessories

Fine ropes

Stainless steel wire ropes

Railing ropes

Railing components

Climbing rope systems

Fibre ropes

Wire rope slings for all kinds of slinging

DoAs

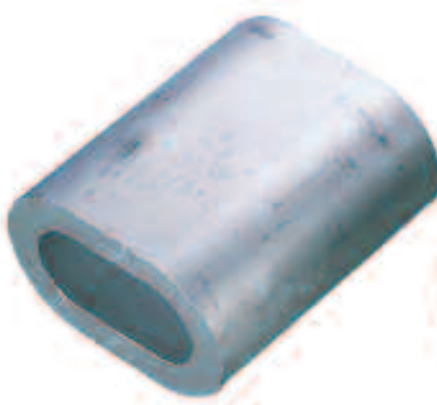


Fig.: Aluminium ferrule



Fig.: Steel ferrule (Flemish eye type)

The wire rope sling made of steel wire ropes is part of the basic equipment of every company where loads are lifted and transported.

The manufacture of the ropes is regulated by DIN EN 13414 (formerly DIN 3088).

The familiar distinction between the wire rope sling types N = normal rope, F = Flemish eye, K = cable-laid rope and G = grummet no longer exists. Instead, the European regulations distinguish between the wire rope slings according to the type of their core as well as the end fitting. Distinction is made between 8 wire rope sling variants with different load capacities:

Wire rope slings in swaged execution with aluminium or steel ferrules:

Fibre core FC (1) or with steel core IWRC (2).

The tables for the **spliced end connections for wire rope slings with fibre core (3) or steel core (4) take into account the reduction of the breaking load due to the end fitting.**

For **cable laid ropes** in swaged (5) and spliced (6) execution, ropes with steel cores are used, which are stranded around a central fibre core.

In the case of **endlessly laid grummets** distinction is made between ropes with fibre core (7) or steel core (8).

Assuming a load, for example, of 4.5 tonnes, this gives rise to the following possible choices for you:

Rope type 1 with fibre core, swaged 22 mm Ø, WLL 5000 kg

Rope type 2 with fibre core, swaged 20 mm Ø,

Rope type 3 WLL 4600 kg with fibre core, spliced, 24 mm Ø, WLL 5600 kg

Rope type 4 with fibre core, spliced, 22 mm Ø, WLL 5000 kg

Rope type 5 Cable-laid, swaged, 27 mm Ø, WLL 4800 kg

Rope type 6 Cable-laid, spliced, 30 mm Ø, WLL 5600 kg

Rope type 7 Grummet, fibre core, 18 mm Ø, WLL 4650 kg

Rope type 8 Grummet, steel core, 18 mm Ø, WLL 4900 kg

In summary, the result is as follows: When using steel cores, the diameter of the wire rope sling can be reduced by one nominal size; when using cable-laid ropes, the rope must be thicker by 1 to 2 nominal sizes in order to achieve the same load capacity as the standard rope with fibre core/swaged. In the case of the grummet the load is distributed over two load-bearing lines, as a result of which the diameter of the single rope can be reduced significantly once again.

Both cable-laid ropes and grummets should be chosen if the flexibility of the slinging gear is important, as in the case of looping around the load. These types of rope can cope better with bending around smaller radii than round strand ropes.

What you should pay particular attention to when buying quality:

- Marking on the ferrule with manufacturer's mark and CE mark
- Is the swaging correct?

- Is the dead rope end flush with the ferrule or does it overlap by a maximum of 0.5 x d (rope diameter)?
- Does the rope lie straight?
- Is the rope diameter correct?
- Is the ferrule length approx. 4.5 x d?

DIN EN 13414 regulates the requirements for the processed raw material and specifies processing guidelines, which a quality-conscious manufacturer such as Dolezych adheres to precisely.

DIN EN 13411-3 is the standard basis for swaged end fittings. It regulates the material requirements for the ferrules and describes the swaging method and quality controls.

Swaged connections are distinguished by the material:

Wire rope slings are manufactured as standard with swaged connections made of wrought aluminium alloys. The use of steel ferrules is recommended for hot applications or if there is a risk of wear.

The standard swaging is cylindrical. If desired, the ferrule can be rounded off to the centre of the rope (old DIN 3093, type B).

Even better is the cylindrical-conical ferrule (old form C), which tapers conically toward the centre of the rope. This prevents catching as far as possible when the rope is pulled under load.

Stainless steel ropes are preferably swaged with copper or stainless steel ferrules.



The splice

DIN EN 13411-2 provides instructions for the execution of the splice in addition to specifying the requirements for the splicer and the necessary tests.

Spliced connections have the advantage that they are very flexible. Hence, for example, an unloaded spliced rope can be pulled out from under a load that is seated tightly against the side of a vessel.

Of course splices – like all other end fittings – may not be bent under load.

The splices are covered (not shown in the picture) with lanyard strands or shrink tape in order to avoid hand injuries.



Endlessly-laid wire rope slings – ‘grummets’

are manufactured according to DIN EN 13414-3.

These are highly flexible wire rope slings, which are used in particular with heavy loads.

Rope diameters of over 100 mm are no rarity here.

If these ropes are used with shackles, it must be ensured that the shackle pins or shackle stirrups respectively are of a sufficient size. Tests have shown that, at a ratio of bolt diameter to rope diameter ($D:d = 1$, approx. 25% loss of the effective ultimate load is to be taken into account, whereas at $D:d > 4$ no loss of the effective ultimate load need be considered.

These values are indicators; they depend on the rope diameter (larger diameter = higher loss of load capacity) as well as of the type of core. (refer also to the publication ‘Endlessly-laid wire rope slings in cable-laid design for heavy loads’ (German: Endlos gelegte Anschlagseile in Kabelschlagmachart für den Schwerlastbereich), from the series of



publications by the Federal Institute of Work Safety (Bundesanstalt für Arbeitsschutz), Dortmund, Fb 620).

In addition to wire rope slings, Dolezych also manufactures precisely fitting ropes as machine components with swaged end fittings, such as steel section or full thimbles, tensioning ropes and strands with swaged or rolled threaded, eye and fork ends, such as those used in cable support structures, lightweight built halls or for bridge bracings.

Ends with thinner dimensions are standard, for example, in many actuating cables. Cast heads, which are cast using a hot or cold procedure, are to be found as further end assemblies on many crane and holding ropes.

These products are not wire rope slings within the meaning of the standards. However, the quality of workmanship is the decisive feature here as well.



It is best to examine wire rope slings each time before use or before putting back into storage!

Operating instructions

Wire rope slings

DoAs



DoAS wire rope slings may only be used for the lifting and transport of loads.

According to BGR 500, use is only permitted by persons assigned and instructed by the contractor. This operating manual is to be read before putting into operation for the first time and must be followed when using Dolezych products. You are referred in particular to the following jointly applicable regulations and technical rules:

- DIN EN 13414-1 to DIN EN 13414-3 Wire rope slings made from steel wire ropes
- BGR 500 Operation of load lifting devices with lifting appliances
- BGI 556 Safety instructions for riggers
- Safe rigging of loads (Sicheres Anschlagen von Lasten), Resch Verlag ISBN 3-935197-34-9

If applicable, more stringent special regulations are to be taken into account, e.g. when transporting hazardous materials.

Selection of the wire rope slings:

Wire rope slings are to be selected such that they are suitable for the forthcoming transport in terms of their type, length and method of attachment to the load and can take up the load securely without undesirable movements.

The wire rope sling can be broken if the load capacity and/or the type of slinging is selected incorrectly!

Wire rope slings are not suitable for sharp-edged loads (only with additional edge protectors) or for loads with temperatures outside the range - 60 °C to +100 °C (for exceptions, see 'Use of wire rope slings in different temperature ranges).

The load capacity of a wire rope sling must never be exceeded!

Putting the wire rope sling into operation:

Before putting the selected wire rope sling into operation, it must be checked whether its identification and dimensions are correct.

Never use a wire rope sling that is damaged or whose marking is no longer present!

Identification of the wire rope slings: Wire rope slings (single-line) have the following markings:

- Manufacturer's mark DD
- CE mark
- Load capacity for direct slinging method, specified in kg

Load capacities of single-line load slings with fibre core (does not apply to the version DoFlex 'K'. Please refer to our load capacity poster for this):

Rope \varnothing (diameter) in mm	Lifting capacity in kg	
	Type of slinging direct	Type of slinging slung
8	700	560
10	1000	800
12	1500	1200
14	2000	1600
16	2700	2160
18	3150	2520
20	4000	3200
22	5000	4000
24	6300	5040
26	7000	5600
28	8000	6400
32	11000	8800
36	14000	11200
40	17000	13600
44	21000	16800
48	25000	20000

The suspension gear has a load capacity plate with the following data:

- Manufacturer's mark DD
- CE mark
- Load capacity for the ranges of the angle of inclination β from 0° to 45° and from 45° to 60°. Specified in kg
- Number of lines
- Nominal rope diameter in mm

Load transport:

Always follow good slinging practice: Plan the slinging, lifting and lowering procedures before beginning with the lifting operation.

1. Preparations: Determine the weight of the load and its centre of gravity. Read the accompanying documents, take note of the slinging points and weight data marked on the load or weigh the load using a crane weigher. Estimating the weight and the centre of gravity with the aid of weight tables is not a suitable solution. The crane hook can only be placed in the correct position if the centre of gravity has been determined correctly!
2. The crane driver is to be informed of the weight of the load.
3. The crane hook is to be positioned vertically above the centre of gravity of the load.
4. Slinging the load:

Loads can slip or fall if they are wrongly slung. A falling load can lead to severe injuries and death!

The load must be slung such that damage to both the load and the wire rope sling is avoided. The following conditions are to be adhered to in order to lift the load without it rotating or tipping over:

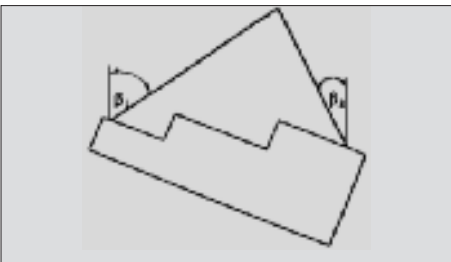
- a) For single-line wire rope slings, the slinging point must be vertically above the centre of gravity of the load.
- b) For 2-line suspension gear, the slinging points must be on both sides and higher than the centre of gravity of the load.
- c) For 3 and 4-line suspension gear, the slinging points must be distributed evenly in one plane around and higher than the centre of gravity of the load.



It is essential to pay attention to the angle of inclination β (angle between the perpendicular and the slinging gear): the larger the angle of inclination, the smaller the load capacity. Angles of inclination over 60° are not permitted!

In the case of 3 and 4-line suspension gear and uneven load distribution, only the load capacity of 2-line suspension gear in conjunction with the largest angle of inclination may be assumed. If different angles of inclination (see illustration) arise with 2-line suspension gear, only the load capacity of a single line may be taken as the basis.

Example of unequal angles of inclination:



The slings of load slings must not be selected too short to prevent exceeding an opening angle of 20° when lifting on the crane hook, for instance. Otherwise, suitable reductions suspensions/adaptor slings must be used. Special note for load slings endlessly spliced (grummet): the ends of the splice are marked red. This position must not be bent under load, i.e. by no means inserted into the crane hook.

Only one line may be assumed to be bearing the load!

Uneven load distribution is always to be expected if:

- the load is rigid (e.g.: concrete parts, cast pieces, short beams etc.),
- the position of the centre of gravity is unknown,

- the load is unevenly formed, different angles of inclination arise.

Use only suitable and sufficiently dimensioned loading points.

Never reach under strapping!

So that, when attaching to the crane hook for example, an opening angle of the loop of 20° is not exceeded, the loops of load slings must not be selected too short. According to standard, the length of the rope loop must be at least 3 times the bolt diameter or the width of the crane hook! Otherwise suitable reduction suspension gear or adaptor slings are to be used. Special note for endlessly spliced load slings (grummet):

The joint ends of the splice are marked red. This point may on no account be bent under load; therefore it must never be placed in the crane hook, for example!

Attention: Attachment is not permitted in the basket hitch!

The exception to this rule is the attachment

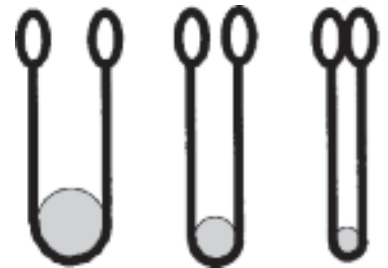
- of loads in large pieces, if it is ensured that the slinging gear cannot slip together and that the load cannot shift
- of long, rod-shaped loads under crossbeams, if a skew of the cross beam is forcibly prevented and the load is supported such that it cannot sag excessively. A skew of the crossbeam does not need to be forcibly prevented if the load or parts of the load are prevented from slipping out by the nature and the surface of the load or by the attachment.

Small radii of curvature of the rope mean a reduction of the load capacity!

In the illustration below, some examples are shown with the residual load capacities (in %):

If suspension gear is used such that not all lines bear the load, then the

unused lines are to be hung up in the suspension head. The load capacity reduces to that of the used lines accordingly.



$D = 6xd$ 100 %
 $D = 3xd$ 75 %
 $D = 2xd$ 65 %
 (D = bolt diameter;
 d = rope diameter)

5. Leave the danger area.
6. Establish communication with everyone involved in the slinging procedure. Warn uninvolved persons in the transport and unloading danger area.

Warning: The endangered persons include, for example, riggers and other persons who are in the area of the transport route!

7. Signals are to be given to the crane driver by one person only.
8. By means of trial lifting, check whether
 - a) the load catches or is stuck fast,
 - b) the load is horizontal or hanging correctly and
 - c) all lines are bearing the load evenly.
9. Lower and re-attach loads that hang at an angle.

Operating instructions

Wire rope slings

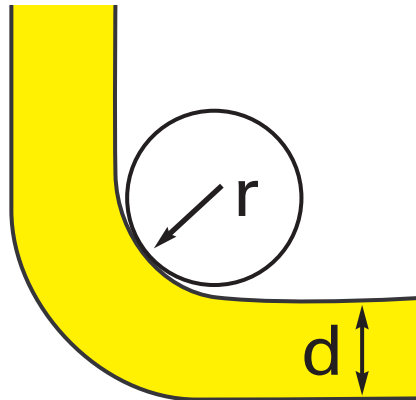
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10. Transport the load by the crane.
11. When transporting bulky parts and in the case of wind loads, the load is to be guided by a guide rope.
In doing so, you should walk outside the danger area, e.g. at the side of the crane, not in front of it.
12. Set the load down in accordance with the rigger's instructions.
13. Secure the load against falling over or apart.
14. Remove the slinging gear from the load.
15. Hook up the slinging gear to the suspension ring.
16. When raising the unused slinging gear, ensure it is clear of the load.

Important application and warning notes:

- Wear gloves when working with wire rope slings (danger of injury!)
- Avoid tearing or jerking loads
- Ferrules must not be stressed by bending.
Splices and ferrules may not be laid over the edges of the load, in the crane hook or in the bay of the roping. Wire rope slings must not be knotted.
- Wire rope slings must not be tensioned or pulled over sharp edges. An edge is considered to be sharp if its radius r is smaller than the rope diameter d .
In the case of sharp-edged loads, wire rope slings are to be protected by intermediate layers (Dolezych edge protection, improvised square timbers).
- Wire rope slings may not be shortened by looping around the lifting hook.



- Wire rope slings must not be tensioned by twisting.
- Loads must not be set down on wire rope slings if they would be damaged as a result.
- Fittings (e.g. suspension rings, lifting hooks) must be freely movable. Suspension elements must be freely movable on the crane hook.
- Wire rope slings that are wound several times around the load must not cross. The windings must lie adjacent to one another.
- The opening angle of the rope loops must not exceed 20° (corresponds to the standard requirement that the width of the crane hook may be maximum $1/3$ of the loop length).

Storing of the wire rope slings:

Wire rope slings are stored appropriately hung up on frames.

Use of wire rope slings in connection with chemicals:

Wire rope slings must not be exposed to chemical influences.

Use of wire rope slings in different temperature ranges:

The permissible usage temperatures for wire rope slings depend on the rope end fitting and the type of rope core. The residual load capacities are shown in the table:

Rope end connection	Rope core	Temperature range		Carrying capacity
		°C	%	
Aluminium ferrule	Fibre	-40 to +100	100	
	Steel	-40 to +150	100	
Splice	Fibre	-40 to +100	100	
	Steel	+150 to +200	90	
	Steel	+200 to +300	75	
Flemish eye	Fibre	+300 to +400	65	
	Steel	-40 to +100	100	
	Steel	+150 to +200	90	
	Steel	+200 to +300	75	
	Steel	+300 to +400	65	

Regular tests:

In accordance with operating safety regulations, wire rope slings must be tested by a qualified person (expert) within test intervals determined by a risk evaluation carried out by the respective employer, and after unusual events that may have had detrimental effects on the safety of wire rope slings. The results of the test are to be recorded (DoQMSoftware for the documentation of the tests is available from Dolezych).

Depending upon the operating conditions of the wire rope slings, tests may be necessary at shorter intervals, i.e. after much less than one year. This applies, for example, to particularly frequent use, in the case of increased wear, corrosion or the influence of heat, or if operational experience shows that an increased risk of damage is to be expected.



During the period of use, regular visual checks are to be carried out by the user in order to detect any damage. Particular attention is to be paid to damage hidden by dirt that could endanger the permanent, safe use of the wire rope slings. As soon as any doubts arise about the safe condition of a wire rope sling, it is to be taken out of operation and examined by an expert.

Criteria for replacing wire rope slings:

- Illegible marking (information for the identification and/or load capacity)
- Wear of the suspension or end parts by more than 15%
- Wear of the hook bowl by more than 5%
- Widening of the hook by more than 10%
- Elongation of the suspension or end parts by more than 10% of the interior length
- Visible breaks or cracks in hooks as well as in the suspension or end parts
- Visible deformation or buckling of individual components
- Squashed thimbles
- Damage to the rope end fittings
- Wear of the free rope length by more than 10% of the nominal rope diameter (d)
- Breakage of an entire strand
- Pinches in the contact area of the eye with more than four wire breakages in the case of wire strand-laid ropes and more than ten wire breakages in the case of cable-laid ropes
- More than six randomly distributed

breakages of external wires over a length of 6 d and at the most 14 over a length of 30 d

	3d	6d	30d
DoAS	4	6	14
DoFlex „K“	10	15	40

(d = rope diameter)

The numbers indicated in the table are considered to be the maximum limit values. Replacement of the wire rope slings in the case of a lower number of wire breakages increases safety.

- More than three adjacent wire breakages in the case of the external wires of a strand (concentration)
- Loosening of the outer layer in the free length
- Notches and pinches in the rope (in the free length), which are more than just slight
- Kinks, flat spots, birdcage formation, protrusion of the core or other damage that could lead to a deformation of the rope assembly (rope deformation) *)
- Reduction of the wire rope cross section in the area of the deformation by more than 10% of the nominal rope diameter
- Damage due to heat (beginning discolouration of the wires, loss of lubricant or pitting), acid or caustic solution
- Damage to the rope structure (knots, constriction, flattening, high-stranding, kinking)
- Damaged rope end fittings (wear, deformation of / beginning cracks in ferrules, or pulling out of the splice)
- Loose (dead) rope end drawn into the ferrule
- The rope end is not visible in the

inspection hole in the case of a conical ferrule

- Changes to or manipulation of components
- Pitting corrosion in the wires or reduction of flexibility due to corrosion
- Minimum rope diameter less than 8 mm

***) Note:** The definition of the permissible rope deformation and deformation requiring replacement of the rope is described in an application-orientated manner in DIN EN 13414-2, appendix A.2.3.6. The essential point to which attention must be paid is the **displacement of wires or strands from their original position in the rope**. Slight bends in the rope, where the wires and strands are still essentially in their original position, are not considered to be serious damage.

General hazard notes:

When lifting loads with slinging gear, the person under or at the side of the load is endangered. As manufacturer we are obliged to draw your attention as the user to the fact that there are residual dangers in handling slinging gear, in particular when the attachment of the slinging gear to the load is not sufficiently safe or when the load swings and endangers the rigger. Falling loads endanger persons and property.

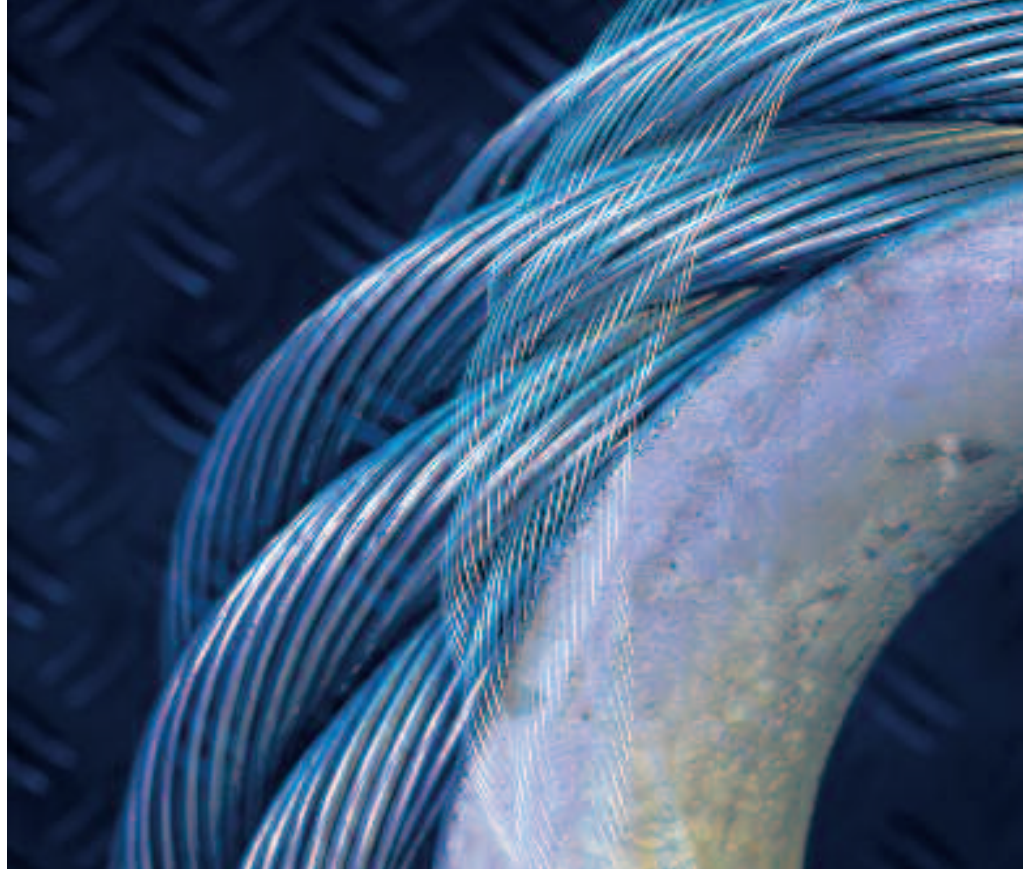
As the user, you should ensure that your riggers and crane drivers are well trained by means of suitable training courses. Dolezych holds the well-known 'Dortmund seminars' several times per year for everyone who is responsible for slinging gear.

Dolezych will also hold in-house seminars at your company: Just talk to us!

BQH safety training:
Tel. +49-231/827598

Wire rope sling with fibre core and aluminium ferrule DIN EN 13414 Rope strength class 1770

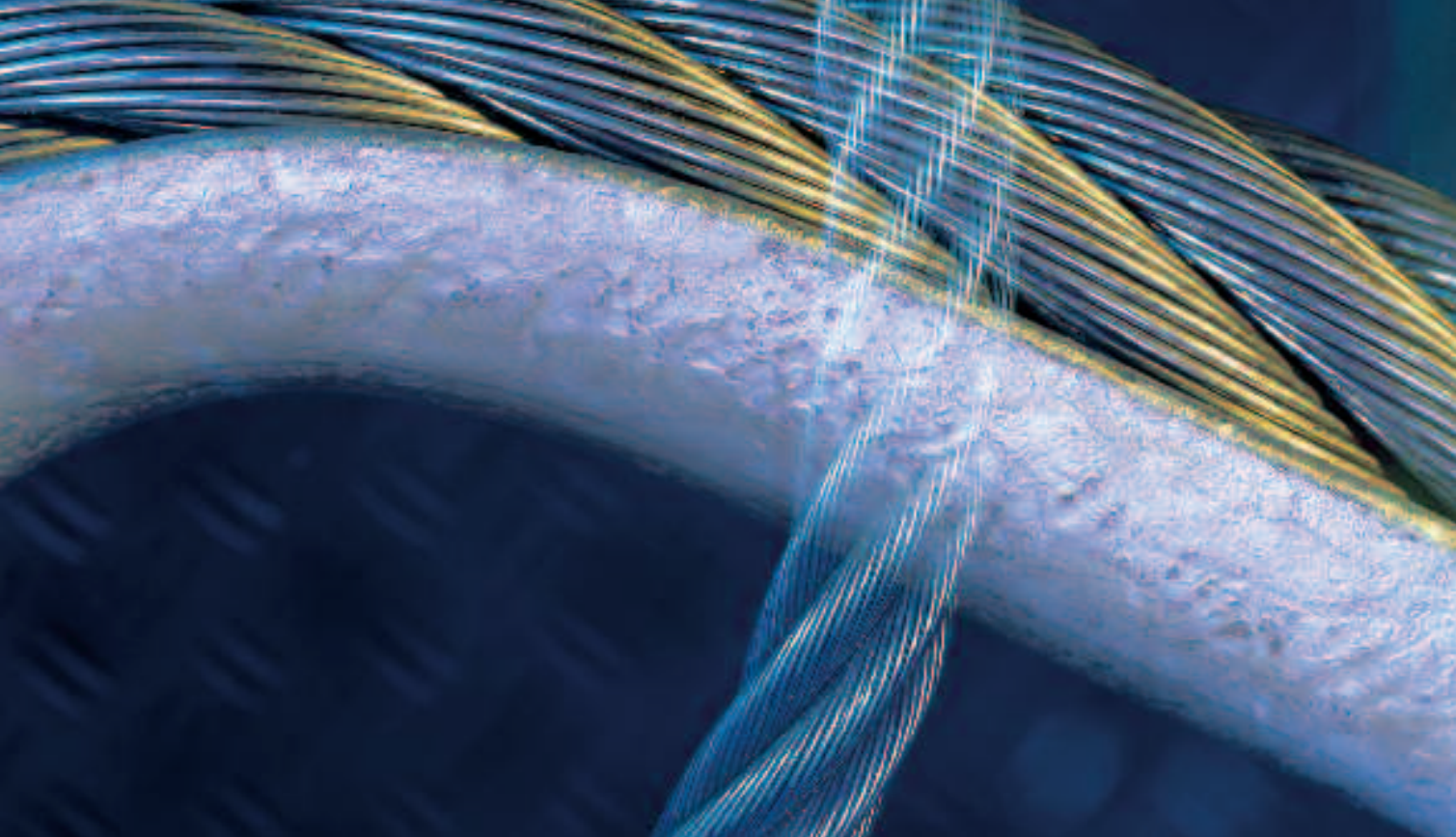
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Dolezych presses cylindrically as a default. The conical pressing as per DIN EN 13411-3 shape C is carried out on request with specially made ferrules. Benefits result from pulling under the load, as nothing can snag. Please indicate your interest in conical pressing in your order by stating "conical".

Wire rope slings – model variants Dimension L = please state length and Item no. when ordering.

Carrying capacity in kg at inclination angle 0°	Nominal rope ø mm	Fig.12	Fig.13	Fig.14	Fig.22	Price per additional m EUR
		eye link/hook	eye/eye slings	thimbles shape 6899 B	special thimbles	
		Item no.	Item no.	Item no.	Item no.	Price on enquiry
700	08	0212 0801	0213 0801	0214 0801	0222 0801	
1000	10	0212 1001	0213 1001	0214 1001	0222 1001	
1250	11	0212 1101	0213 1101	0214 1101	0222 1101	
1500	12	0212 1201	0213 1201	0214 1201	0222 1201	
1750	13	0212 1301	0213 1301	0214 1301	0222 1301	
2000	14	0212 1401	0213 1401	0214 1401	0222 1401	
2700	16	0212 1601	0213 1601	0214 1601	0222 1601	
3150	18	0212 1801	0213 1801	0214 1801	0222 1801	
4000	20	0212 2001	0213 2001	0214 2001	0222 2001	
5000	22	0212 2201	0213 2201	0214 2201	0222 2201	
6300	24	0212 2401	0213 2401	0214 2401	0222 2401	
7000	26	0212 2601	0213 2601	0214 2601	0222 2601	
8000	28	0212 2801	0213 2801	0214 2801	0222 2801	
11000	32	0212 3201	0213 3201	0214 3201	0222 3201	
14000	36	0212 3601	0213 3601	0214 3601	0222 3601	
17000	40	0212 4001	0213 4001	0214 4001	0222 4001	
21000	44	0212 4401	0213 4401	0214 4401	0222 4401	
25000	48	0212 4801	0213 4801	0214 4801	0222 4801	
28000	50	0212 5001	0213 5001	0214 5001	0222 5001	
33500	56	0212 5601	0213 5601	0214 5601	0222 5601	



Wire rope slings – model variants
Dimension L = please state length and Item no. when ordering.

- * Please multiply the carrying capacities by factor 0.8
- ** Please multiply the carrying capacities by factor 1.4
- *** Please multiply the carrying capacities by factor 2

Fig.21	Fig.24	Fig.23
sling and glide hook	endless with 1 ferrule**	endless with 2 ferrules***

Carrying capacity in kg at inclination angle 0°	Nomina rope ø mm	Price per 1 m eff. length on enquiry			Price per additional m EUR
		Item no.	Item no.	Item no.	
700	08	0221 0801	0224 0801	0223 0801	Price on enquiry
1000	10	0221 1001	0224 1001	0223 1001	
1250	11	0221 1101	0224 1101	0223 1101	
1500	12	0221 1201	0224 1201	0223 1201	
1750	13	0221 1301	0224 1301	0223 1301	
2000	14	0221 1401	0224 1401	0223 1401	
2700	16	0221 1601	0224 1601	0223 1601	
3150	18	0221 1801	0224 1801	0223 1801	
4000	20	0221 2001	0224 2001	0223 2001	
5000	22	0221 2201	0224 2201	0223 2201	
6300	24	0221 2401	0224 2401	0223 2401	
7000	26	0221 2601	0224 2601	0223 2601	
8000	28	0221 2801	0224 2801	0223 2801	
11000	32	0221 3201	0224 3201	0223 3201	
14000	36	0221 3601	0224 3601	0223 3601	
17000	40	0221 4001	0224 4001	0223 4001	
21000	44	0221 4401	0224 4401	0223 4401	
25000	48	0221 4801	0224 4801	0223 4801	
28000	50	0221 5001	0224 5001	0223 5001	
33500	56	0221 5601	0224 5601	0223 5601	

**Wire rope sling with
steel core and aluminium ferrule
DIN EN 13414
Rope strenght class
1770**

DoAs



**Wire rope slings – model variants
Dimension L = please state length and Item no. when ordering.**

Carrying capacity in kg at inclination angle 0°	Nominal rope ø mm	Fig.12	Fig.13	Fig.14	Fig.23	*** Please multiply the carrying capacities by factor 2 Price per
		eye sling/ hook	eye/eye slings	thimbles shape 6899 B	endless with 2 ferrules***	
		Item no.	Price per 1 m using length additional m on enquiry Item no.	Item no.	Item no.	Price on enquiry
750	8	0412 0801	4213 0801	4214 0801	4223 0801	
1150	10	0412 1001	4213 1001	4214 1001	4223 1001	
1400	11	0412 1101	4213 1101	4214 1101	4223 1101	
1700	12	0412 1201	4213 1201	4214 1201	4223 1201	
2000	13	0412 1301	4213 1301	4214 1301	4223 1301	
2250	14	0412 1401	4213 1401	4214 1401	4223 1401	
3000	16	0412 1601	4213 1601	4214 1601	4223 1601	
3700	18	0412 1801	4213 1801	4214 1801	4223 1801	
4600	20	0412 2001	4213 2001	4214 2001	4223 2001	
5650	22	0412 2201	4213 2201	4214 2201	4223 2201	
6700	24	0412 2401	4213 2401	4214 2401	4223 2401	
7800	26	0412 2601	4213 2601	4214 2601	4223 2601	
9000	28	0412 2801	4213 2801	4214 2801	4223 2801	
11800	32	0412 3201	4213 3201	4214 3201	4223 3201	
15000	36	0412 3601	4213 3601	4214 3601	4223 3601	
18500	40	0412 4001	4213 4001	4214 4001	4223 4001	
22500	44	0412 4401	4213 4401	4214 4401	4223 4401	
26000	48	0412 4801	4213 4801	4214 4801	4223 4801	



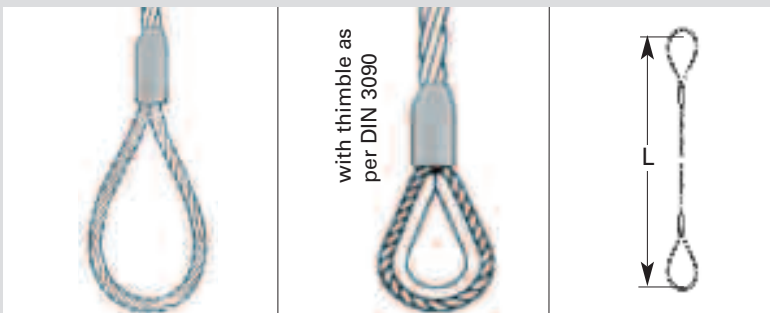
Wire rope sling DIN EN 13411-3 "Flemish eye"



Benefits of "Flemish eye"

- Eye formation through splice + pressing = 100% safety to minimum breakage load for all 6-strand designs
- Conically lean steel ferrule does not snag when pulling under loads or bundling loads
- Wear and tear-resistant aluminium ferrule
- Ideal for heat usage up to 400 °C, if the wire rope is fitted with a steel core and a steel ferrule
- Less wear and tear – therefore more favourable price/performance ratio
- Top safety
- At temperatures of +150°C - +200°C 90%, at +200°C - +300°C 75% and at +300°C - +400°C 65% of the carrying capacity remain
- Easy use in many areas of application

Wire rope load sling "Flemish eye" approx. 10% more carrying capacity, heat-resistant up to 400°C



WLL in kg simple direct at an inclination angle 0°	Nom. rope ø mm	galvanised rope with 2 eyes		blank rope with 2 eyes		galvanised rope with 2 thimbles		blank rope with 2 thimbles		dimension L = state using length and item no. when ordering	Price per additional m
		Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	galvanised EUR	blank EUR		
750	08	0222 0801	0235 0801	0234 0801	0236 0801						
1150	10	0222 1001	0235 1001	0234 1001	0236 1001						
1700	12	0222 1201	0235 1201	0234 1201	0236 1201						
2250	14	0222 1401	0235 1401	0234 1401	0236 1401						
3000	16	0222 1601	0235 1601	0234 1601	0236 1601						
3700	18	0222 1801	0235 1801	0234 1801	0236 1801						
4600	20	0222 2001	0235 2001	0234 2001	0236 2001						
5650	22	0222 2201	0235 2201	0234 2201	0236 2201						
6700	24	0222 2401	0235 2401	0234 2401	0236 2401						
7800	26	0222 2601	0235 2601	0234 2601	0236 2601						
9000	28	0222 2801	0235 2801	0234 2801	0236 2801						
11800	32	0222 3201	0235 3201	0234 3201	0236 3201						

The carrying capacity details in the tables are based on DIN EN 13414.

Carrying capacity loss in hot environments

Rope-End connection	Rope core	Temperature-range °C	Carrying-capacity
Alu-press-ferrule	Fibre Steel	-40 to +100	100
		-40 to +150	100
Splice	Fibre Steel Steel Steel	-40 to +100	100
		+150 to +200	90
		+200 to +300	75
		+300 to +400	65
Flemish Eye	Fibre Steel Steel Steel	-40 to +100	100
		+150 to +200	90
		+200 to +300	75
		+300 to +400	65



Inspecting wire rope slings requires special care and must be carried out by experienced and trained staff only in accordance with in-spection instructions. Please contact us.

Steel wire rope slings

DoFlex

Treat your lifter to these soft ropes which can handle return radii better

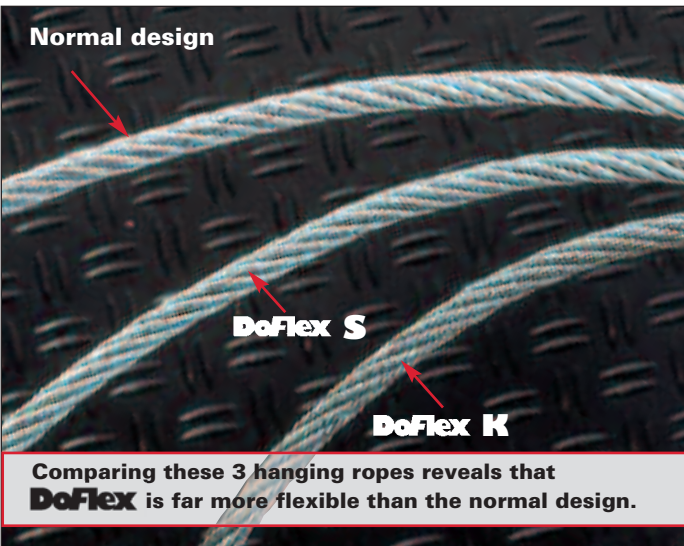
- Special design DoFlex S = 6 x 61 + FC
- DoFlex K = cable laid rope design

Reduce costs with DoFlex steel wire rope slings



Your benefits:

- the most flexible of all wire rope slings nestles perfectly to the load
- high carrying capacity through good section usage with **DoFlex S**
- super-smooth with **DoFlex K**
- avoids problems with kinks



Comparing these 3 hanging ropes reveals that **DoFlex** is far more flexible than the normal design.

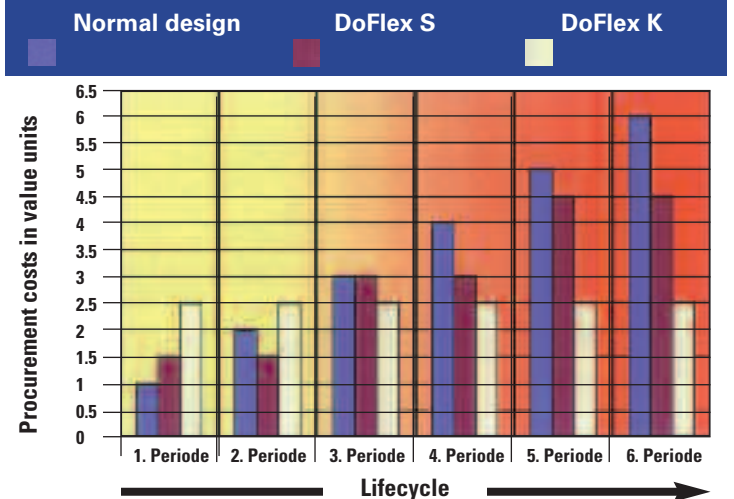
DoFlex S, 6 x 61 + FC Steel wire rope slings, flexible

Item no.	Nom. rope diameter in mm	Carrying cap. in kg inclination angle 0°	Price 1 m	Price/0.5 add. m
			EUR	EUR
0261 1301	13.0	1,750		
0261 1601	16.0	2,700		
0261 2001	20.0	4,000		
0261 2201	22.0	5,000		
0261 2401	24.0	6,300		
0261 2801	28.0	8,000		
0261 3101	31.0	10,000		
0261 3301	33.0	12,000	Price on enquiry	Price on enquiry
0261 4001	40.0	17,000		

DoFlex K, cable laid rope design Steel wire rope slings, flexible

Item no.	Nom. rope diameter in mm	Carrying cap. in kg inclination angle 0°	Price 1 m	Price/0.5 add. m
			EUR	EUR
0285 2401	24.0	3,750		
0285 2701	27.0	4,750		
0285 3001	30.0	6,500		
0285 3301	33.0	7,500		
0285 3601	36.0	9,000		
0285 3901	39.0	10,500		
0285 4201	42.0	12,500	Price on enquiry	Price on enquiry
0285 4801	48.0	16,000		

DoAs wire rope sling in economic comparison of rope types



In the procurement, wire rope slings of normal design have a price factor of 1. Flexible wire rope slings DoFlex "S" have 1.5 times the price and DoFlex "K" about 2.5. As regards the lifecycle, DoFlex "S" are superior to normal designs by the factor of 2 and compared to cable laid designs by a factor of 6.

The initially higher investment is therefore worth it after only a short period, in the illustration already after the 3rd investment in a rope of normal design.



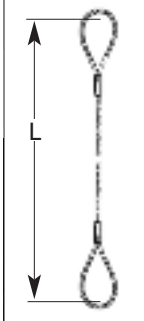
- High carrying load**
- + Flexibility in handling**
- + Solid end connection**
- + Color Coding**
- = Highest level of safety**

Wire Rope Slings DIN EN 13411-3

DoPremium

DoPremium steel wire rope slings, 6 x 61 IWRC

Item no.	Rope-nom. diameter in mm	load capacity in kg Tilt angle 0°	Price 1 m	Price/0,5 extra m
6261 1301	13,0	2.000	Price on enquiry	Price on enquiry
6261 1601	16,0	3.000	Price on enquiry	Price on enquiry
6261 2001	20,0	5.000	Price on enquiry	Price on enquiry



DoPremium – Rope slings combine the benefits of various rope sling types in one product:

- With the 6x61 IWRC rope construction, you have a very flexible full steel rope which is significantly superior to a standard rope sling with fibre core as regards the breaking force.
- The selected wire strength of 1,960 N/mm² supports the requirement for a high breaking force.
- The „Flemish Eye“ press connection provides a solid steel clamp with high abrasion resistance.
- The cone form of the splicing prevents jamming of the lifting element when pushing through under the load.
- The rope slings are made completely according to the European color code as known with web slings and round slings (DBGM).
- With the three measurement in the easily distinguishable traffic-light colors green, amber and red and a load capacity from 2 to 5 t, the range of usual transport tasks is covered.

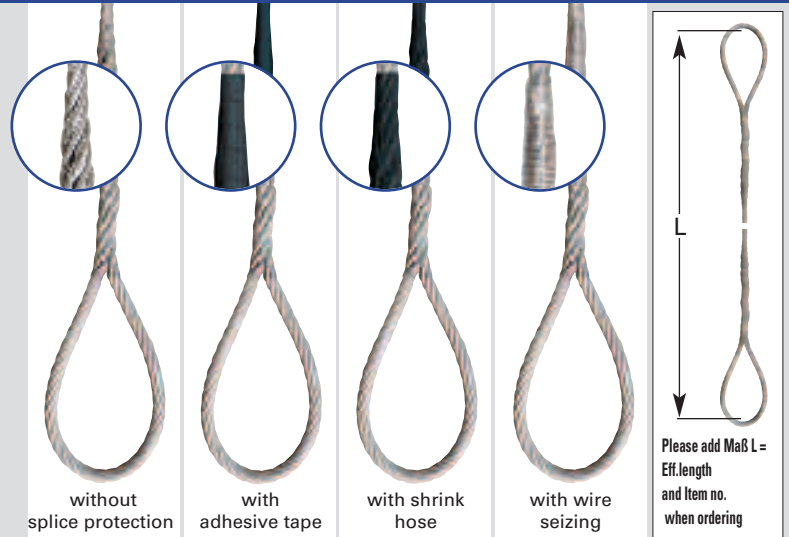


Splice DIN EN 13411-2

DoAs



Steel wire rope slings with 2 spliced eyes



Carrying cap. kg with Tilt angle 0°	Rope- Nom. ø mm	Price per 1m eff. length on enquiry				Price extra m
		Item no.	Item no.	Item no.	Item no.	
550	08	0253 0801	0253 0811	0253 0821	0253 0831	Price on enquiry
850	10	0253 1001	0253 1011	0253 1021	0253 1031	
1.000	11	0253 1101	0253 1111	0253 1121	0253 1131	
1.250	12	0253 1201	0253 1211	0253 1221	0253 1231	
1.500	13	0253 1301	0253 1311	0253 1321	0253 1331	
1.700	14	0253 1401	0253 1411	0253 1421	0253 1431	
2.200	16	0253 1601	0253 1611	0253 1621	0253 1631	
2.800	18	0253 1801	0253 1811	0253 1821	0253 1831	
3.400	20	0253 2001	0253 2011	0253 2021	0253 2031	
4.200	22	0253 2201	0253 2211	0253 2221	0253 2231	
5.000	24	0253 2401	0253 2411	0253 2421	0253 2431	
5.800	26	0253 2601	0253 2611	0253 2621	0253 2631	
6.700	28	0253 2801	0253 2811	0253 2821	0253 2831	
8.800	32	0253 3201	0253 3211	0253 3221	0253 3231	
11.000	36	0253 3601	0253 3611	0253 3621	0253 3631	
13.600	40	0253 4001	0253 4011	0253 4021	0253 4031	

Steel wire rope slings with 2 spliced eyes made from the flexible 6 x 37 + FC rope type in galvanized variant.

Steel wire rope slings with spliced eyes in accordance to DIN EN 13411-2 (formerly DIN 3089-1) are perfectly suitable for lifting procedures in tight spaces. They can be easily pulled underneath loads due to their small conical shape. Contrary to the press clamp, the splice allows bending stress in every position.

To prevent hand injuries from sticking out wires, we also make the splice with three hand protection variants:

- wrapped in solid adhesive tape
- with shrink hose
- with wire seizing



Note:
When stressing one single rope, avoid turning the load to prevent the splice from opening!

Heavy-duty accessories for lifting slings

DoAs

DoSL - Heavy-duty suspension, WLL 100 t

Item no.	Carrying capacity	Weight kg	Price each
0321 8100	100 t	400	on enquiry

Master Link bolts centers itself on the crane hook. →

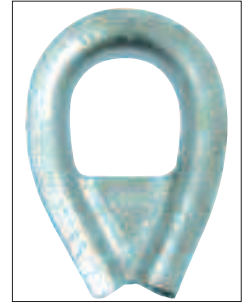
Bearing bolt diameter is 300 mm. →



Please inquire for prices for larger dimensions and higher bearing capacities.

Heavy-lift thimbles

Item no.	Suitable for Shackles	Groove width mm	width x length mm	Price/ piece
0330 6035	17 t	35	80 x 160	Price on enquiry
0330 6040	25 t	40	90 x 180	
0330 6050	35 t	50	110 x 220	
0330 6062	55 t	62	140 x 280	
0330 6072	85 t	72	160 x 320	
0330 6085	120 t	85	190 x 380	
0330 6095	150 t	95	200 x 400	
0330 6105	200 t	105	210 x 420	



Shackle „wide body“ with increased range in shackle bracket

Item no.	Carrying load t	bolt diameter mm	Clear Width mm	for Rope- ϕ maximum	Weight kg/piece	Bracket width mm	Price each
0321 9075	75	70	105	30	45	120	Price on enquiry
0321 9125	125	80	130	36	73	150	
0321 9150	150	95	140	42	125	170	
0321 9200	200	105	150	51	227	205	
0321 9250	250	121	170	60	235	240	
0321 9300	300	134	185	66	368	265	
0321 9400	400	160	220	80	472	320	
0321 9500	500	180	250	85	614	340	
0321 9600	600	200	275	92	831	370	
0321 9700	700	215	300	100	1100	400	
0321 9800	800	230	325	105	1358	420	
0321 9900	900	250	350	110	1550	440	
0321 9010	1000	270	380	115	1824	460	
0321 9012	1200	300	430	132	2260	530	

Grummets DIN EN 13414-3 Rope strength Class 1770

Edge protector

DoAs

What are Grummets?

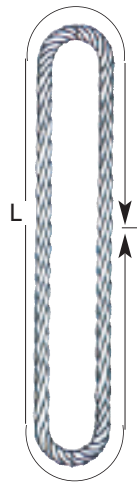
Grummets are made from one-layer round strand wire rope with fibre or steel core. 6 legs are arranged around a core rope in the shape of a screw. Due to the high amount of wires processed (at least $7 \times 6 \times 19 = 798$ up to $7 \times 6 \times 37 = 1554$ wires), grummets are very flexible. They are preferably used in heavy-lift areas. In excess of the rope diameters listed in the tables, grummets with 120 mm, with 600 t carrying capacity per pair and higher are available.

Please observe the following when using grummets:

- Only to be used in pairs
- Observe sufficiently dimensioned master link bolts (not smaller than four times the rope diameter)
- Ensure that the strands do not cross
- Joining point marked by color never to be positioned at the load contact points, the crane hook or the lifting point, but rather always on the free length.



Grummet 87 - 7x6x19+7 FC



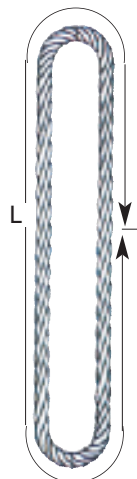
Item no.	Rope nom. diameter mm	Capacity a piece per pendicular kg	Price per 1 m L	Price/0.5 extra m.
0287 0901	9	1.500		
0287 1201	12	2.100		
0287 1501	15	3.200	Price on enquiry	Price on enquiry
0287 1801	18	4.650		
0287 2101	21	6.300		
0287 2401	24	8.300		
0287 2701	27	10.500	Price on enquiry	Price on enquiry
0287 3001	30	11.500		
0287 3301	33	14.000		
0287 3601	36	16.500		

Edge protector



Item No.	nominal size	max. rope- ϕ mm	Price each
0390 1025	S I	25	on enquiry
0390 1050	S II	50	on enquiry
0390 1070	S III	70	on enquiry

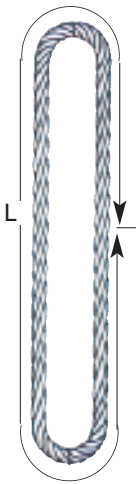
Grummet 88 - 7x6x37+7 FC



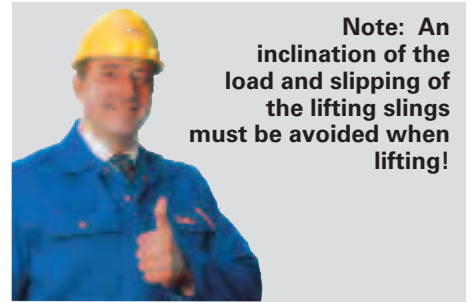
Item no.	Rope nom. diameter mm	Capacity perpendicular kg	Price per 1 m L	Price/0.5 extra m.
0288 1801	18	4.650		
0288 2101	21	6.300		
0288 2401	24	8.300	Price on enquiry	Price on enquiry
0288 2701	27	10.500		
0288 3001	30	11.500		
0288 3301	33	14.000		
0288 3601	36	16.500		
0288 3901	39	19.500	Price on enquiry	Price on enquiry
0288 4201	42	22.500		
0288 4801	48	29.500		
0288 5401	54	37.500		



Grummet 89 - 7x6x36+7 FC

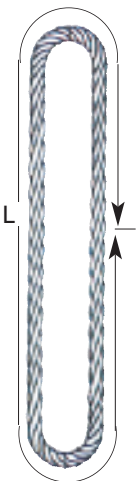


Item no.	Rope nom. diameter mm	Capacity per pendicular kg	Price per 1 m L	Price/0.5 extra m.
0289 2401	24	8.300		
0289 2701	27	10.500		
0289 3001	30	11.500	Price on enquiry	Price on enquiry
0289 3301	33	14.000		
0289 3601	36	16.500		
0289 3901	39	19.500		
0289 4201	42	22.500		
0289 4801	48	29.500		
0289 5401	54	37.500		
0289 6001	60	46.000		



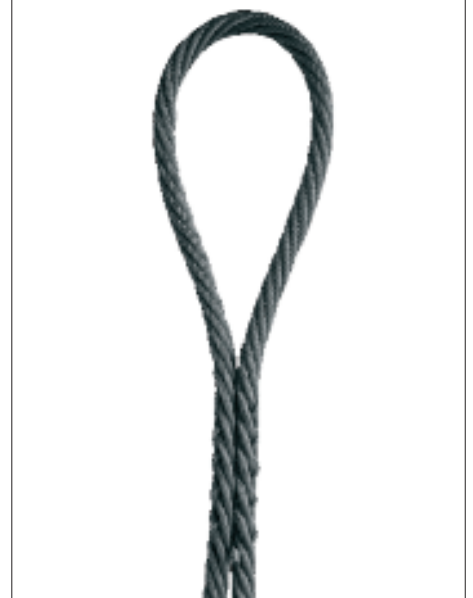
Note: An inclination of the load and slipping of the lifting slings must be avoided when lifting!

Grummet 90 - 7x6x36+7 IWRC



Item no.	Rope nom. diameter mm	Capacity per pendicular kg	Price per 1 m L	Price/0.5 extra m.
0290 2401	24	9.000		
0290 2701	27	11.500		
0290 3001	30	14.000	Price on enquiry	Price on enquiry
0290 3301	33	17.000		
0290 3601	36	20.000		
0290 3901	39	23.500		
0290 4201	42	27.000		
0290 4801	48	35.500		
0290 5401	54	45.000		
0290 6001	60	55.500		
0290 6601	66	68.000		
0290 7201	72	84.000		
0290 7801	78	100.000		

Please ask for grummetts with eye forming unit through special sewing technique!



1-Leg Wire Rope Suspensions DIN EN 13414. Rope Strength Class 1770

DoAs

Dolezych is in close contact to professional organisations and meets all safety requirements. The clamps are labelled as prescribed. You are given a lifting device with which your slinger can work smoothly and without a problem. From a rope diameter of 12 mm and not only 14 mm on, we offer our rope slings in the flexible 6x37 + FC or 6x36 + FC design. Compare when purchasing! An advantage when using Dolezych products!

End Conections

Please select from the four following hooks for one- to four-leg suspensions:



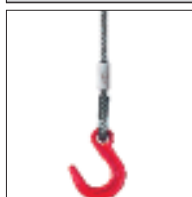
Eye hook GK8



SIKA - Hook



Eye hook self-locking YOZ



Container hook YOW

The container hooks without safety latch are not allowed in the construction area. Using these hooks is only allowed in hot workplaces (foundry etc.)!



Position of the slinger:

Never stand under a suspended load, in the perpendicular range of the load to be lifted jointly or next to loads at risk of tilting!



One-Leg Suspension



Eye hook GK 8



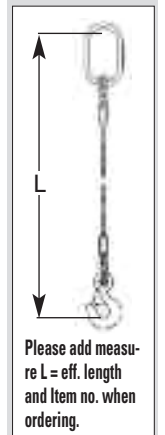
SIKA Container Eye hook



Eye hook, self-locking YOZ



Container hook YOW



Loading kg with tilt angle 0°	Rope nom. ø mm	Price per 1 m eff. length on enquiry				Price suspension extra meter
		Item no.	Item no.	Item no.	Item no.	
700	08	0218 0801	0220 0801	0226 0801	0227 0801	Price on enquiry
1000	10	0218 1001	0220 1001	0226 1001	0227 1001	
1500	12	0218 1201	0220 1201	0226 1201	0227 1201	
2000	14	0218 1401	0220 1401	0226 1401	0227 1401	
2700	16	0218 1601	0220 1601	0226 1601	0227 1601	
3150	18	0218 1801	0220 1801	0226 1801	0227 1801	
4000	20	0218 2001	0220 2001	0226 2001	0227 2001	
5000	22	0218 2201	0220 2201	0226 2201	0227 2201	
6300	24	0218 2401	0220 2401	0226 2401	0227 2401	
7000	26	0218 2601	0220 2601	0226 2601	0227 2601	
8000	28	0218 2801	0220 2801	0226 2801	0227 2801	
11000	32	0218 3201	0220 3201	0226 3201	0227 3201	
14000	36	-	0220 3601	0226 3601	0227 3601	

Rope Suspensions, 2-leg DIN EN 13414. Rope Strength Class 1770

DoAs



Load capacity details in the charts are based on DIN EN 13414-1 in accordance with the professional association for ropes and lifting slings

Order example:

You want to order:
1 Piece rope suspension. 2leg with eye hook.
Rope-Ø 14 mm. 2 m eff.length.

Your order:
1 Piece Item no. 0218 1402.
2 m eff.length.

Two-leg Suspensions



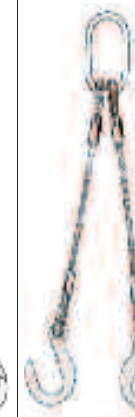
Eye load hook GK 8



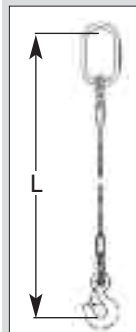
SIKA-snap - eye load hook



Eye hook, self-locking YOZ



Container hook YOW



Please add measure L = eff.length and Item no. when ordering

Carrying capacity kg with Tilt angle		Rope-Nom. ø mm	Price per 1 m eff.length on enquiry				Price Suspension Extra meter
0-45°	45-60°		Item no.	Item no.	Item no.	Item no.	
950	700	08	0218 0802	0220 0802	0226 0802	0227 0802	Price on enquiry
1400	1000	10	0218 1002	0220 1002	0226 1002	0227 1002	
2100	1500	12	0218 1202	0220 1202	0226 1202	0227 1202	
2800	2000	14	0218 1402	0220 1402	0226 1402	0227 1402	
3800	2700	16	0218 1602	0220 1602	0226 1602	0227 1602	
4400	3150	18	0218 1802	0220 1802	0226 1802	0227 1802	
5600	4000	20	0218 2002	0220 2002	0226 2002	0227 2002	
7000	5000	22	0218 2202	0220 2202	0226 2202	0227 2202	
8800	6300	24	0218 2402	0220 2402	0226 2402	0227 2402	
9800	7000	26	0218 2602	0220 2602	0226 2602	0227 2602	
11200	8000	28	0218 2802	0220 2802	0226 2802	0227 2802	
15400	11000	32	0218 3202	0220 3202	0226 3202	0227 3202	
19000	15700	36	-	0220 3602	0226 3602	0227 3602	



Suspensions with master links in special sizes, please request more info!

The suspension label is embossed on a steel plate with rope ø, strand number and carrying capacity details for allowable tilt angles. As well as the Dolezych manufacturer sign and the CE marking.

Carrying capacity marking in accordance with BGR.

... Required for your safety

... offered as a standard by Dolezych.

Item no. 0399 9999

Price on enquiry

Wire Rope Suspensions 3-Leg, with Safety Hook DIN EN 13414, Tensile Strength Class 1770

DoAs



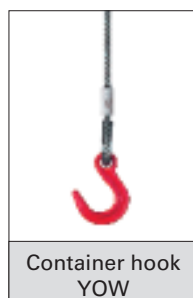
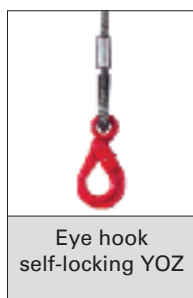
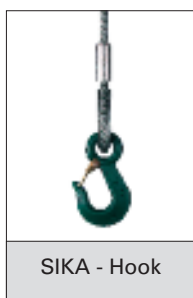
The clear width of the master link should be at least 20 % wider than the profile of the crane hook on which the master link rests upon.

Dolezych is in close contact to professional organisations and meets all safety requirements. The ferules are labelled as prescribed. You are given a lifting device with which your rigger can work smoothly and without a problem. From a rope diameter of 12 mm and not only 14 mm, we offer our rope slings in the flexible 6x37 + FC or 6x36 + FC design. Compare when purchasing! A benefit with using Dolezych!

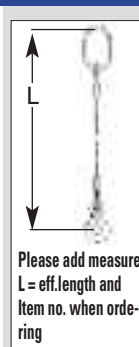
End Connections

Please select from the four following hooks for one- to four-leg suspensions:

The container hooks without safety latch are not allowed in the construction area. Using these hooks is only allowed in hot workplaces (foundry etc.)!



Three-Leg Suspension



Carrying capacity in kg		Price per 1 m eff. length on enquiry						Price suspension extra meter
tilt angle	nom.	ø mm	Item no.	Item no.	Item no.	Item no.	Price on enquiry	
0-45°	45-60°							
1450	1050	08	0218 0803	0220 0803	0226 0803	0227 0803		
2100	1500	10	0218 1003	0220 1003	0226 1003	0227 1003		
3200	2300	12	0218 1203	0220 1203	0226 1203	0227 1203		
4200	3000	14	0218 1403	0220 1403	0226 1403	0227 1403		
5700	4000	16	0218 1603	0220 1603	0226 1603	0227 1603		
6600	4700	18	0218 1803	0220 1803	0226 1803	0227 1803		
8400	6000	20	0218 2003	0220 2003	0226 2003	0227 2003		
10500	7500	22	0218 2203	0220 2203	0226 2203	0227 2203		
13200	9400	24	0218 2403	0220 2403	0226 2403	0227 2403		
14700	10500	26	0218 2603	0220 2603	0226 2603	0227 2603		
16800	12000	28	0218 2803	0220 2803	0226 2803	0227 2803		
23000	16500	32	0218 3203	0220 3203	0226 3203	0227 3203		
29000	21000	36	-	0220 3603	0226 3603	0227 3603		



Wire Rope Suspensions

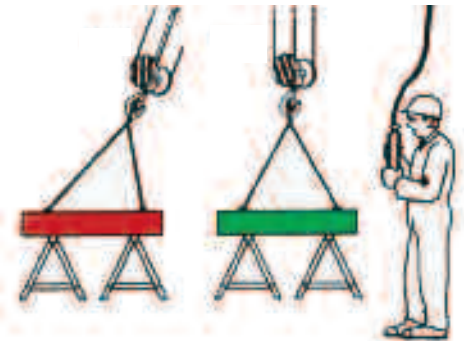
4-Leg, with Safety Hook DIN EN 13414, Rope Strength Class 1770

DoAs



The maximum tilt angle of multiple-leg suspensions is 60° !

Beware of a pendular motion of loads!



Four-Leg Suspension



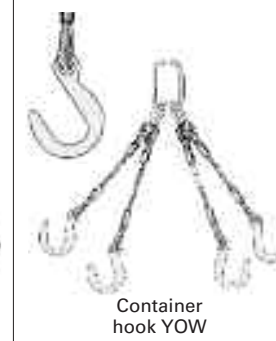
Eye hook GK 8



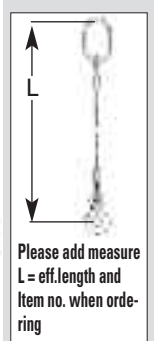
SIKA-Container Eye hook



Eye hook, self-locking YOZ



Container hook YOW



Please add measure L = eff. length and Item no. when ordering

Loading in kg with Tilt angle		Rope-nom. ø mm	Price per 1 m eff. length on enquiry				Price suspension Extra meter
0-45°	45-60°		Item no.	Item no.	Item no.	Item no.	
1450	1050	08	0218 0804	0220 0804	0226 0804	0227 0804	
2100	1500	10	0218 1004	0220 1004	0226 1004	0227 1004	
3200	2300	12	0218 1204	0220 1204	0226 1204	0227 1204	
4200	3000	14	0218 1404	0220 1404	0226 1404	0227 1404	
5700	4000	16	0218 1604	0220 1604	0226 1604	0227 1604	
6600	4700	18	0218 1804	0220 1804	0226 1804	0227 1804	
8400	6000	20	0218 2004	0220 2004	0226 2004	0227 2004	
10500	7500	22	0218 2204	0220 2204	0226 2204	0227 2204	
13200	9400	24	0218 2404	0220 2404	0226 2404	0227 2404	
14700	10500	26	0218 2604	0220 2604	0226 2604	0227 2604	
16800	12000	28	0218 2804	0220 2804	0226 2804	0227 2804	
23000	16500	32	0218 3204	0220 3204	0226 3204	0227 3204	
29000	21000	36	-	0220 3604	0226 3604	0227 3604	

Price on enquiry

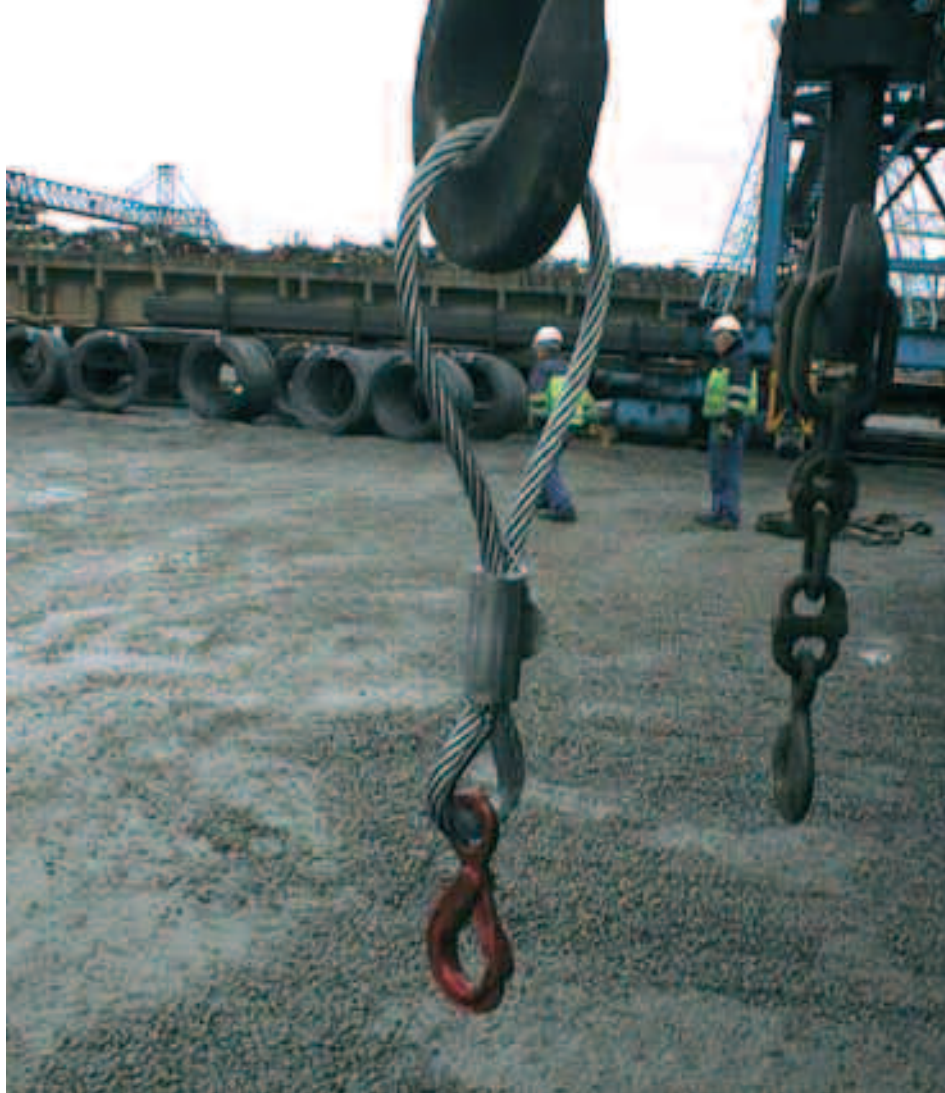
Wire rope adapter slings

DIN EN 13414,
Tensile Strength
Class 1770

DoAs

Eye and hook must be matched in size. If the eye is too small, a breaking of the side welding seam may result and the load can fall down.

Wire rope adapter slings are also suited for use with large crane hooks with sling dimensions of at least 15 times the diameter.

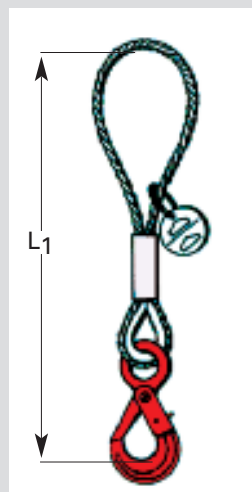


Wire Ropes Adapter Slings

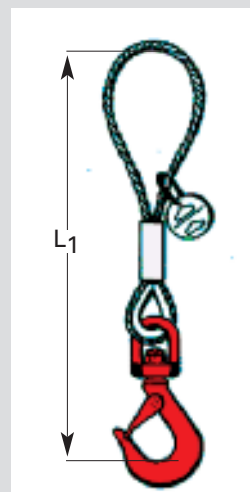
Adapter slings with eye hooks with locking YOS



Adapter slings with eye hooks self-locking YOZ



Adapter slings with Swivel hooks with locking YOSW



Adapter slings with swivel hooks self-locking YOZW



Carrying capacity in kg with tilt angle 0°

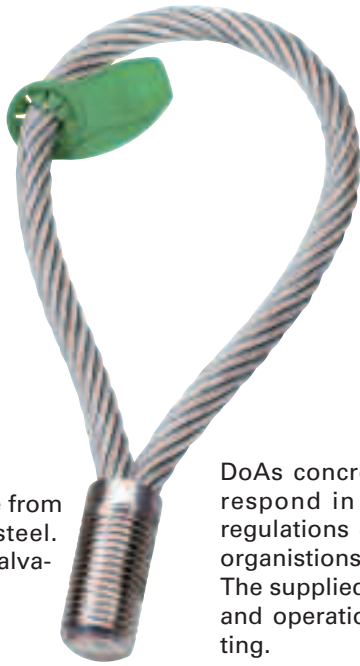
Rope-nom. ø mm

Price each on enquiry

		Item no.	L ₁ / mm	Item no.	L ₁ / mm	Item no.	L ₁ / mm	Item no.	L ₁ / mm
950	08	1218 0801	300	1220 0801	330	1226 0801	350	1227 0801	340
1400	10	1218 1001	350	1220 1001	380	1226 1001	400	1227 1001	400
2000	12	1218 1201	400	1220 1201	440	1226 1201	460	1227 1201	450
2800	14	1218 1401	470	1220 1401	520	1226 1401	540	1227 1401	520
3800	16	1218 1601	540	1220 1601	600	1226 1601	620	1227 1601	600
5000	20	1218 2001	630	1220 2001	690	1226 2001	710	1227 2001	690
7000	22	1218 2201	740	1220 2201	800	1226 2201	830	1227 2201	820
8800	24	1218 2401	820	1220 2401	880	1226 2401	960	1227 2401	960
9800	26	1218 2601	880	1220 2601	940	1226 2601	1020	1227 2601	1020

Wire rope concrete slings Rope Strength class 1770

DoAs



Concrete slings

The thread part is made from ungalvanized special steel. The sling is made of galvanized wire ropes.

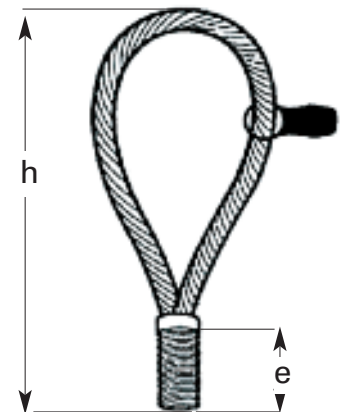
DoAs concrete slings with thread correspond in all points to the security regulations of the german professional organisations (ZH 1/17). The supplied instructions for installation and operation must be used for mounting.

In particular, please observe the following:

- Completely screw in the threads
- Clean soiled thread ducts of the thread anchor and rope slings
- Observe indications for disposal!

Wire Rope Concrete Slings

Carrying capacity in kg with Tilt angle 0°	Thread metric	Item no.	Size in mm		Price per piece
			h	e	
500	M12	1312 0155	155	22	Price on enquiry
800	M14	1314 0156	155	24	
1200	M16	1316 0155	165	27	
1600	M18	0399 0704	190	34	
2000	M20	0399 0402	215	35	
2500	M24	1324 0255	255	37	
4000	M30	1330 0300	300	50	
6300	M36	1336 0360	360	68	



The Dolezych Carrying Capacity Poster for all Lifting Devices

Item no.	Price each
0395 5555	on enquiry

Safety when lifting loads

The poster in A1 format informs the slinger comprehensively on all current carrying capacities of all lifting devices.

To this end, there are all kinds of tips for lifting in practice: sharp edges, use in hot environments, etc. – a must for every user!

Tragfähigkeiten aller Anschlagmittel

Dolezych einfach sicher

Rope fittings and end-fitting variants for wire rope slings

DoAs

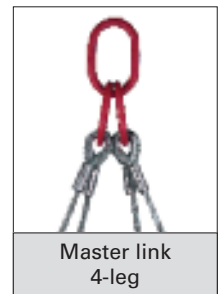
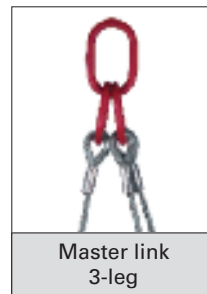
Rope fittings and end-fitting variants

With these end-fitting variants slings can be matched to any application or for changing slinging types, done variably with these fittings.

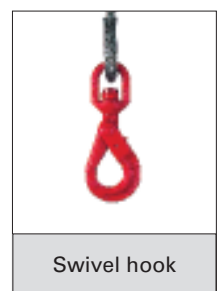
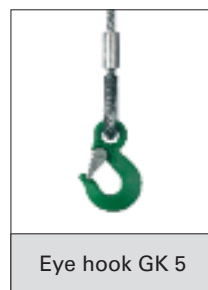
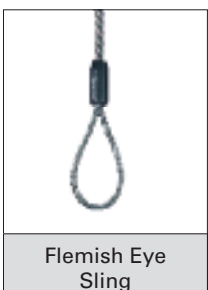
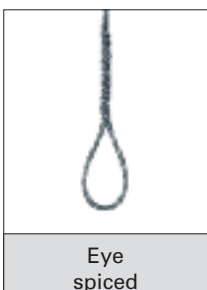
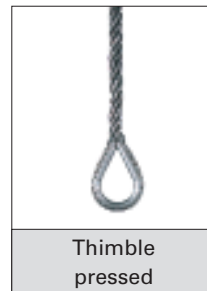
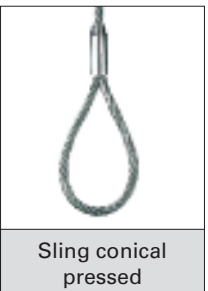
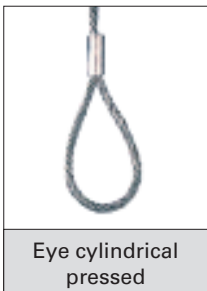
We supply fully assembled ropes with these fittings included to be used as machine element.

Do you need additional fittings which are not mentioned here? Then feel free to contact us. We'd really like to provide you guidance.

Rope fittings

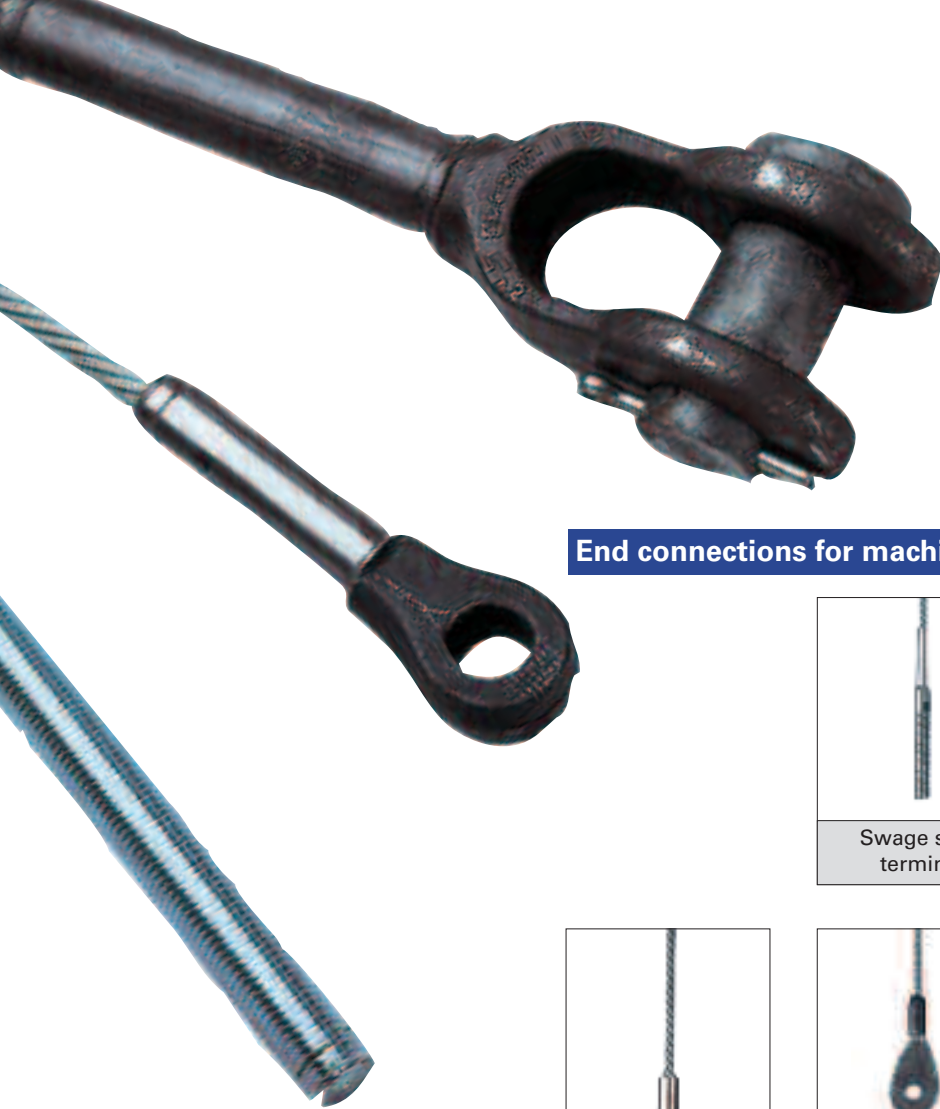


End-fitting variants

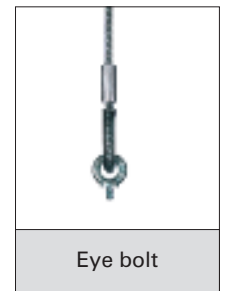
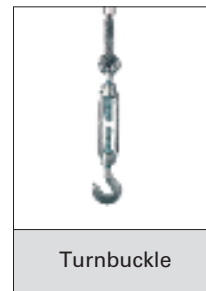
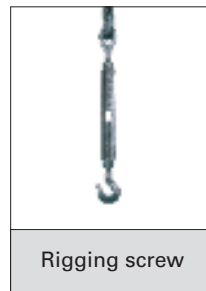
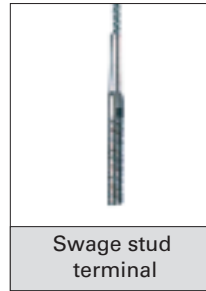


End connections for standing and running ropes

DoAs



End connections for machine elements



Mooring



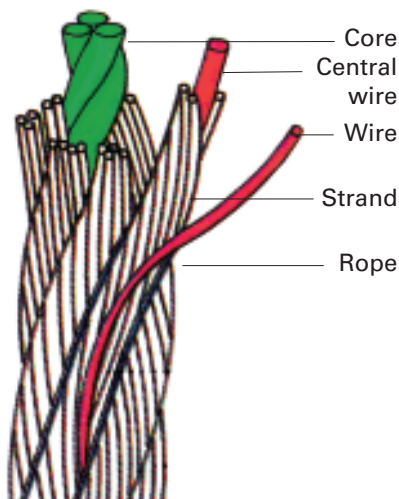
Wire ropes for every area of application

DoDra

Wire ropes for every area of application

The wire rope is a high-quality mechanical component, which is produced according to the following principle: Several wires are wound helically around a core wire.

If production is completed with this working step, then a spiral rope has been manufactured that can be used as a guy rope or as an actuating cable. For use as a mechanical component with bending stresses, a single or multi-layer round strand rope is required. The described wire bond is formed by the strand, which is in turn wound helically around a core.




The number, thickness and arrangement of wires and the selection of the strands determine the strand geometry and the rope construction, the rope diameter, the rope flexibility.

Different areas of application require special qualities: Requirements for strength, flexibility and resistance to wear must be combined with one another. It is important to select the wire rope according to the intended purpose – e.g. a wire rope with many thin wires is very flexible, but sensitive to external wear; conversely, a wire rope

DoDra Easyway ... the simple way to the correct rope

Guided load

- in the case of several rope lines and small lifting heights (< 1000 d)
- when using pairs of right-handed and left-handed ropes




low-tension

Standard stranding

DoCasar Stratolift
DoCasar Stratoplast
DoDiepa P 825
DoRope W 825 P
DoRope DP 8
DoRope DD 9

Unguided load

- for single-line operation
- in the case of several rope lines and large lifting heights (> 1000 d)



non-rotating

One-layer spooling (ordinary lay)

DoCasar Starlift
DoDiepa 1315
DoRope KSZ
DoRope W 357

compacted (higher breaking load, rope surface smoothed)

DoCasar Turbolift
DoCasar Turboplast
DoDiepa PZ 371
DoDiepa SKZ 8
DoCasar Paraplast

Multi-layer spooling (Lang's lay)

DoCasar Eurolift
DoDiepa 915 CZ
DoDiepa 1315 CZ
DoRope W357 V

Special applications, such as drilling equipment:
DoCasar Powerplast, **DoDiepa** Super 3, **DoDiepa** Super 4
 ... for scraper systems **DoDiepa** Z 299

with few thick wires offers more resistance to abrasion, but is also less flexible and therefore requires, for example, pulleys with larger diameters.

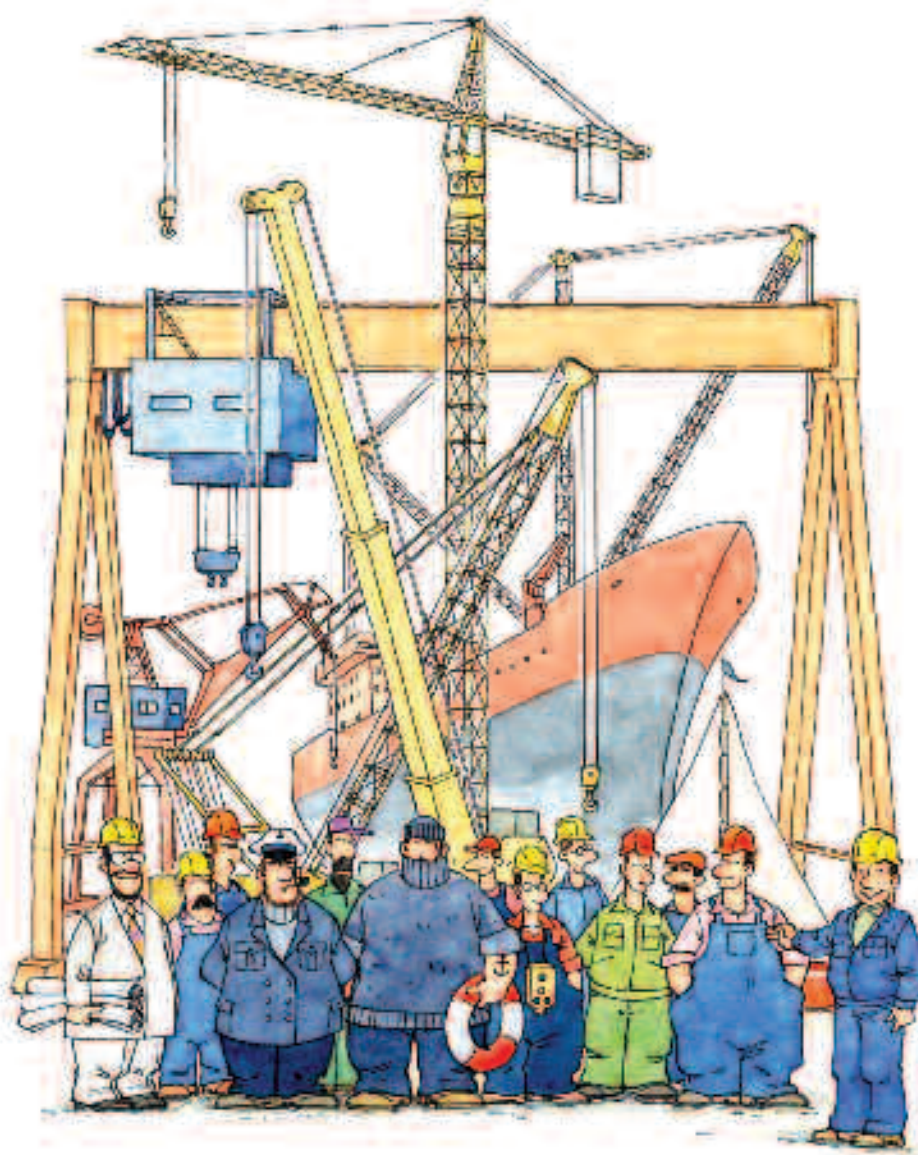
The wire diameter, its allocation to the rope and the permissible tolerances are predominantly specified by DIN EN 12385. However, the market demands more and more special ropes, whose structure is designed on the computer according to works standards. Both the ultimate load and service life are increased by the better cross section geometry and highest manufacturing know-how of these special ropes compared to DIN ropes.

Direction and type of lay of the round rope

The direction of lay is visible from the helical line of the external strands. The difference: right-handed ropes 'Z' and left-handed ropes 'S'. In addition to the direction of lay, the type of lay is also distinguished:

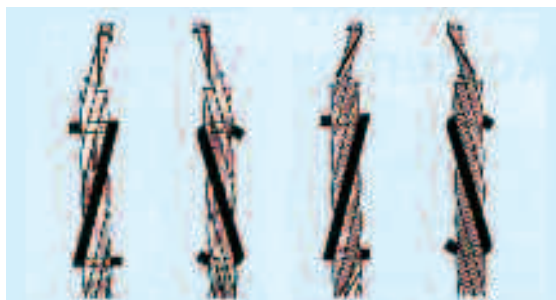
Ordinary lay

The wires in the strands have the opposite direction of lay to the strands in the rope.



Lang's lay

The wires in the strands are laid in the same direction as the strands in the rope.



right hand lay (sZ) left hand lay (zS) right hand lay (zZ) left hand lay (sS)

Ordinary lay

Lang's lay

The illustrations show the directions and types of lay with the aid of the letter forms 'Z' and 'S'. The small 's' or 'z' denotes the direction of lay of the wires in the strand, while the large 'S' or 'Z' denotes the direction of lay of the strands in the rope. The combination of all four possibilities is the type of lay.

If not specified in the order, Dolezych generally supplies the right-hand ordinary lay 'sZ'.

Cores

Distinction is made between fibre core (FC = Fibre Core in accordance with the CEN standard) and steel core (IWRC = Independent Wire Rope Core)

1. Fibre core

The formerly common hemp core is hardly used any longer, because it is relatively soft and can only inadequately withstand the external pressure. Besides that, hemp is too expensive for the rope core. Fibre cores nowadays consist today predominantly of hard fibres (manila or sisal). If dimensioned correctly, an adequate supporting effect is achieved.

Treatment with water-repellent and anti-rot oil makes the core resistant and prevents the rope from corroding from within.

Polyester and polypropylene are also used as fibre materials. They have the advantage of being weatherproof. All fibre cores function as grease reservoirs for the rope. The diameter of the rope reduces under load; the pressure exerted on the core causes the grease to exude, hence lubricating the rope.

2. The steel cores

The task of the steel core is to better support the arching of the strands; the structure becomes compact.

The metallic cross section is increased, which leads to higher breaking loads compared to the fibre core.

In ropes with thin diameters, for example, the steel core consists of only one core wire. In the case of larger rope diameters, it leads to possibly desired rigidity of the rope.

The steel strand core (SEL) is standard especially in rustproof ropes (core strand). In order to ensure the optimum function, however, this strand should be manufactured with a larger diameter than the outer strands.

The steel rope core (IWRC) is particularly suitable for the rope. It is specially matched to the outer strands with regard to construction and diameter.

Ropes with fibre cores can be used up to approx. +100°C; ropes with steel cores, conversely, up to +400°C.

Plastic intermediate layer

Special ropes increasingly contain plastic intermediate layers.

Advantages

- very smooth running
- no contact between the core and the outer strands
- reduced birdcage formation
- replaces lubricant
- protects the steel core against corrosion
- higher rope stability when installing

Wire ropes for every area of application

DoDra



Compaction

The production begins conventionally. Subsequently, however, the strands and possibly also the finished rope or only the finished rope are compacted plastically with special tools.



Conventional rope

Thus the rope diameter is reduced - the surfaces are smoothed. Advantages of strand compaction: The contact lines of the single wires become 'more laminary', i.e. the contacts and contact surfaces become larger.



Compacted rope

Compacted ropes have a higher breaking load (bulk factor) than comparable non-compacted ropes. They exhibit a greater resistance to abrasion, because the outer wires run 'more laminary'.

They have greater abrasion resistance, because the external wires have a greater and smoother surface.

Low twist – low tension

A rope is low tension (also referred to as low twist) if, after removal of the binding, its strands and wires do not move from the rope bond or only move a little. A low tension rope does not tend to kink; it lies 'dead'.

Low tension ropes are manufactured by means of special treatment during the stranding process.

Freedom from rotation – low rotation

A rope is non-rotating or rotation-resistant if it does not rotate or only rotates a little about its own axis under the influence of an unguided load acting on the rope axis. A rope is non-rotating or rotation-resistant on account of its geometry and the type of stranding (multi-layer round strand rope, flattened strand rope, braided rope and other special constructions).

Storage

The correct way to store ropes is

- dry
- dust-free
- at room temperature or cool
- protected against mechanical damage (especially when putting into/taking out of storage)
- avoiding contact with the floor (floor moisture)

Installation

- If ropes are to be cut to length, first bind the ends (if possible using soft iron wire /iron strand or a suitable adhesive tape)
- Unwind as shown in the illustrations
- Protect against sharp edges on structural parts when hoisting (e.g. using edge protection)
- For the first roping, use a thin lead-in rope, which (as described below in 1) and 2)) is bound to the rope to be hoisted.

For the installation of rotation-free ropes, the lead-in rope should be rotation-free (e.g. rotation-free rope designs or 3-strand synthetic fibre ropes). If 6 or 8-strand lead-in ropes are used for roping with non-rotation-free constructions, then the directions of lay of both ropes must correspond to each other. When exchanging the rope, the rope to be replaced usually takes over the function of the lead-in rope – the instructions below therefore apply both to first roping and to rope exchange.





The connection of the lead-in rope (old rope) to the new rope can be accomplished in various ways:

1) Procedure for roping with rotation-free constructions:

A half chain link is welded to the end of the lead-in rope and another to the end of the new rope. The two half chain links are then bound together with a length of braid (sufficiently dimensioned to withstand the tensile and weight stress), whose ends are twisted together with one another. Binding using two Chinese fingers is more elegant, because attachment is simple and fast. If a swivel is additionally used between the two Chinese fingers, then there can be no transmission of twisting from the old rope to the new rope.

2) Procedure for roping with non-rotation-free constructions:

If prior damage in the rope to be replaced is probable due to twisting, then the procedure with the welded-on half chain links and strand as described above is recommended, because the twists in the old rope can untwist in the strand without being transferred to the new rope.

On the other hand, the strand resists the new rope to the extent that the design-related dependent torques cannot lead to untwisting. If a swivel were to be used, there would be no resistance; the rope could untwist and become defective.

If twisting damage in the old rope is improbable, then the ends can also be butt welded together or connected by means of 2 Chinese fingers or a connecting sleeve (push the rope ends as close together as possible in order to prevent tearing of the sleeve due to twisting). Attention: Lang's lay ropes may neither be drawn on with a swivel nor with an assembly strand connection, but should be drawn in using Chinese fingers.

If there is no twisting of the old rope,

the ends can be butt welded together! The directions of lay must correspond!

When drawing in a Lang's lay rope, it is to be noted that Chinese fingers can twist off the rope like a nut on a bolt, despite the rope tension. In this case the rope sections held by the Chinese fingers should be wrapped with a textile adhesive tape beforehand.

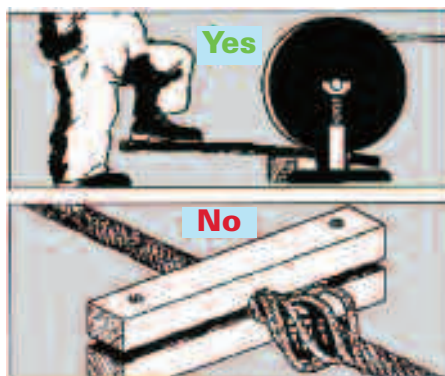
The illustrated installation instructions are based on the experience of many users.

They are only of a basic character; rope-specific deviations cannot be ruled out.

Contrary installation recommendations may even apply with special rope types

Winding onto a drum

Winding onto a drum should take place under pre-loading of 1 to 2% of the minimum ultimate load. Pre-loading is of crucial importance in the case of multi-layer spooling – otherwise upper layers can be pulled under lower lying layers under load and damage the rope. If the drawn-in layer has even become jammed, a reversal of the spooling direction may take place: the load moving downward, for example, may suddenly be raised and vice versa.



The necessary pre-loading is already reached if the emptying reel is slowed by a board.

Never brake the rope itself by clamping it – kinks can form and the rope may be deformed.



- A winding up direction is specified for the rope by the production winding. It is essential to adhere to this 'bending direction' when assembling.

- Pay attention to cleanliness when installing (sand, for example, can adhere to lubricants and lead to premature rope damage).

- Always unwind the rope (rope twists lead to changes of the lengths of lay and thus to the formation of kinks)

Running in

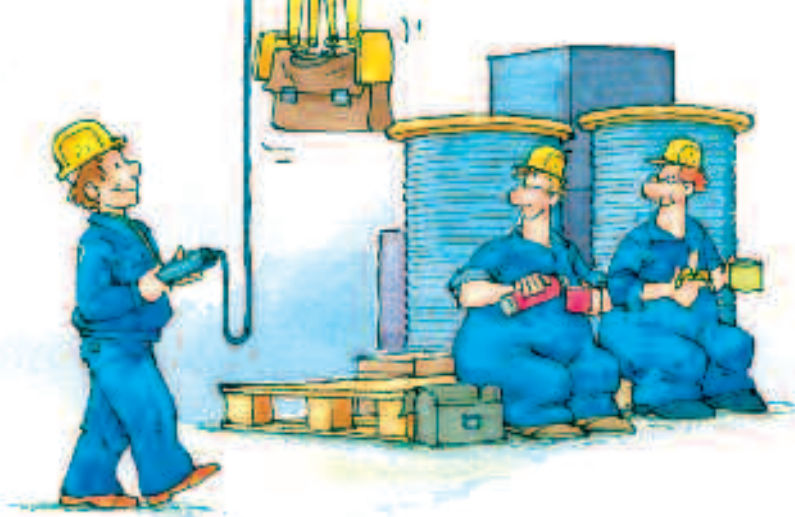
Between installation and the beginning of work, the rope should be run in several times with partial loads, so that the rope elements can 'settle'.

The normal practice of running in with an overload directly after installation is considered in expert circles to be problematic; this should be restricted to the necessary overload test.

If, in the case of multi-layer spooling, work is carried out predominantly at only one rope layer, then the rope should be extended to its full length with a suspended load once per day.

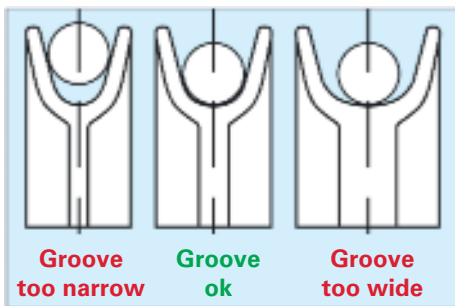
Wire ropes for every area of application

DoDra



Checks

- Check the correct seating of the rope in the drum/ drive pulley grooves. The correct groove diameter according to DIN 15020 = $1.05 \times d$ (= nominal rope diameter). Optimum groove diameter is approx. $1.06 - 1.08 \times d$.



- In the case of multiple rope guidance, ensure that the force proportion is the same for each rope.
- Check the base of the groove for damage (indentations destroy the new rope).
- Check angles of deflection – max. 4° for non-rotation-free, max. 1.5° for rotation-free ropes.

Caution:

Not every rope can be used with the maximum angle of deflection. Please let us advise you.

- Larger angles of deflection allow the rope to initially run onto the flank and then slip into the groove when turning. The consequences are forced twisting and the danger of jumping out of the pulley.
- Groove angle at least 45° (better 60°)
- In the case of multi-layer spooling, the direction of lay of the rope should be selected in accordance with the position in which the rope predominantly works.

Consequences

The consequence is twisting of the rope. The direction of lay of the rope is to be

selected such that the drum tightens the rope. That is precisely the case if the rope pitch is selected contrary to the drum pitch. A right-handed drum needs a left-handed rope, a left-handed drum needs a right-handed rope. The rope twist works exactly the same in the securing, so that here also a left-handed rope is to be selected for a right securing and a right-handed rope for a left securing.

What regulations exist?

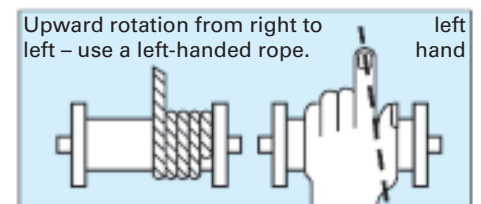
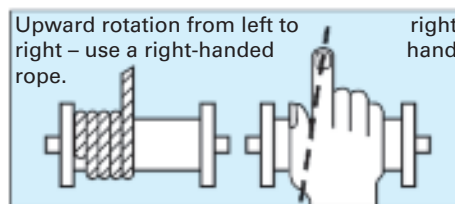
Depending upon the intended purpose (use) of the rope, reference must be made to different standards or regulations within the BG-rules. There is no single standard according to which all ropes must be subjected to certain tests.

The collection of DIN standards is impressive ; for slinging gear it is DIN EN 13414 with the standards e.g. for ferrules DIN EN 13411-3, for splices DIN EN 13411-2 and for 'Flemish eyes' DIN EN 13411-3. For rope drives, for exam-

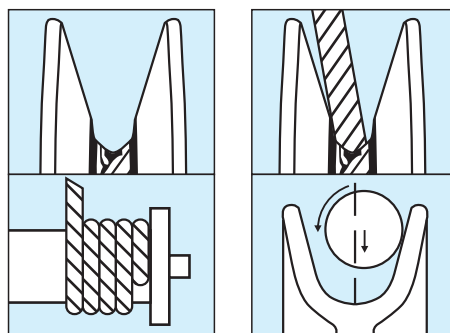
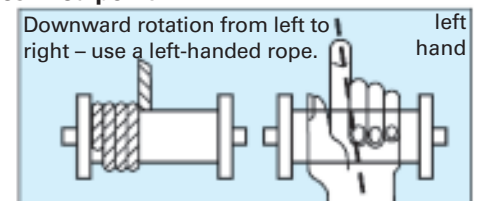
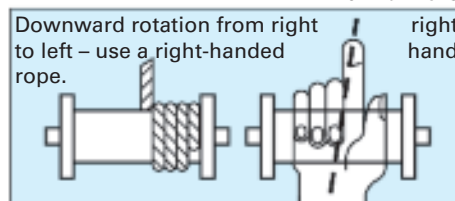
ple, DIN 15020 applies together with VDI 2358. The test results are entered with date in the crane or lift logbook or in the slinging gear card index.


What must be taken into account?

- Check end fittings: castings are to be replaced as a matter of principle if there are wire breakages or corrosion at the rope exit point of a rope socket or sleeve. Likewise upon reaching maximum service life (time limits e.g. in the case of cable cars, as regulated by rules such as BO Seil and BO Schlepp).
- Check screw connections (screw clamps) at intervals; retighten using a torque wrench.
- Intensively stressed rope sections require special attention.
- In the area of the rope end fitting (thimble, ferrule, terminal) there is increased susceptibility due to changes of tension and corrosion.



Thumb indicates fixed point!



Wire ropes for running and standing purposes as well as wire rope slings are to be checked at regular intervals, possibly also each time before use, and serviced if necessary. It is usually visual inspections that are necessary in order to detect signs of wear in good time. DIN standards and accident prevention rules are guarantees of safety. 



- There is a risk of wire breakage in the area of compensating rollers due to increased bending cycles.
- On rope drums increased wear due to abrasion.
- Lubricant losses can worsen the working conditions of the rope in the area of aggressive media or at temperatures over +50°C.

Rope pulleys, drive pulleys

- Check regularly for freedom of movement, stiff rope pulleys increase wear.
- Check the groove base - optimum groove diameter = nominal rope diameter plus 6 - 8%
- Ensure that the wall thickness is adequate, record lateral notches in the crane logbook and earmark the part for prompt replacement or reworking.

- Replace or rework grooves with rope indentations in the groove base

Lubrication

Particularly in the case of running and standing ropes:

- Regrease the ropes if necessary (manually or using an automatic mechanism)
- Ropes running over pulleys should preferably be lubricated with oil
- Apply the oil if possible at the bending points, since the lubricant can penetrate into the interior of the rope better here.
Caution: Grease can destroy rubber-coated rollers; ensure compatibility!
- Ropes that do not run over pulleys should be lubricated with grease, since experience shows that grease adheres longer to the surface.

- Ensure compatibility with the original lubricant

- Clean the ropes regularly; grease and dust encrust and impair the self-lubrication (due to clogged rope joints, no more grease can penetrate from the inside to the outside). Suitable lubricants are:
 - DoGrease F wire rope grease
 - DoGrease wire rope spray
 - DoGrease O wire rope oil

Wire ropes for every area of application

DoDra

Replacement criteria

In consideration of safety in hoist operations, the wire rope must be replaced promptly. The criteria for replacement of a wire rope in relation to the extent of the damage are specified below. The operation of the hoist can become dangerous in the case of further use.

• Type and number of broken wires

Rope drives are implemented such that the wire ropes are not fatigue enduring. For that reason wire breakages occur during operation. A wire rope is to be replaced at the latest if one of the quantities of visible broken wires specified in the table is determined at any place.

• Position of the broken wires

The wire rope is to be replaced if wire break nests occur. The wire rope is to be replaced immediately if a strand breaks.

• Chronological sequence of the occurrence of wire breakages

In important cases it is recommended to determine the number of wire breakages in relation to time. The further increase of wire breakages and the probable time of replacement can be inferred from this. It should thereby be noted that wire breakages only begin after a certain period of operation and then increase with ever greater rapidity.

• Decrease of the rope diameter during the period of operation

If the diameter of a wire rope has become smaller by 15% or more in relation to the nominal dimension over long sections due to the formation of corkscrews or wave-like deformation, then the wire rope must be replaced.

The prerequisite for this is that, with the new wire rope, the tolerances according to DIN EN 12385 are adhered to even if the wire rope does not have a standardised construction.



Replacement state of wear of wire ropes due to wire breakages

Number of load bearing wires in the outer strands of the wire rope ³⁾	Number of visible wire breaks in the replacement state of wear							
	Drive gear groups 1 E _m , 1 D _m , 1 B _m , 1 A _t				Drive gear groups 2 _m , 3 _m , 4 _m , 5 _m			
	Ordinary lay		Lang's lay		Ordinary lay		Lang's lay	
	over a length of 6 d	30 d	over a length of 6 d	30 d	over a length of 6 d	30 d	over a length of 6 d	30 d
bis 50	2	4	1	2	4	8	2	4
51 bis 75	3	6	2	3	6	12	3	6
76 bis 100	4	8	2	4	8	16	4	8
101 bis 120	5	10	2	5	10	19	5	10
121 bis 140	6	11	3	6	11	22	6	11
141 bis 160	6	13	3	6	13	26	6	13
161 bis 180	7	14	4	7	14	29	7	14
181 bis 200	8	16	4	8	16	32	8	16
201 bis 220	9	18	4	9	18	35	9	18
221 bis 240	10	19	5	10	19	38	10	19
241 bis 260	10	21	5	10	21	42	10	21
261 bis 280	11	22	6	11	22	45	11	22
281 bis 300	12	24	6	12	24	48	12	24
über 300 ⁴⁾	0,04 · n	0,08 · n	0,02 · n	0,04 · n	0,08 · n	0,16 · n	0,04 · n	0,08 · n

In the case of rope constructions with particularly thick wires in the outer layer of the outer strands, e.g. round strand rope 6 x 19 Seale or round strand rope 8 x 19 Seale according to DIN EN 12385, the number of visible broken wires in the replacement state of wear should be assumed to be around 2 lines lower than according to the table value

Drive gear groups according to DIN 15020, sheet 1.
d = wire rope diameter.

³⁾ Filler wires are not regarded as load bearing.

In the case of wire ropes with several strand layers, only the strands in the outermost strand layer are considered to be 'outer strands'.

⁴⁾ The calculated numbers are to be rounded up.



Corrosion

Corrosion occurs in particular in sea water atmospheres, in the case of operation in corrosive atmospheres and in wire ropes that lie outdoors for long periods. Corrosion of the outside rope wires can be determined by visual inspection. Conversely, corrosion in wires that are not visible from the outside is difficult to determine.

As a result of corrosion, the static breaking load of the wire rope can be reduced due to the decrease of the metallic rope cross section, and the operating strength can be reduced due to corrosion pits. If the rope diameter has decreased by 10% or more in relation to the nominal dimension, then the wire rope is to be replaced even if no wire breaks are determined.

Abrasion

Abrasion in wire ropes occurs as 'internal abrasion' due to movements of the strands and wires against each other when the wire rope is bent and as 'external abrasion' due to movements between the wire rope and the rope groove (e.g. by the slippage of the wire rope in the groove when starting up and braking) or by scraping the wire rope on the ground or the transported goods.

Abrasion is exacerbated by inadequate lubrication or a lack of lubrication and by the influence of dust.

As a result of abrasion, the static breaking load of the wire rope can be reduced due to the decrease of the metallic rope cross section, and the operating strength can be reduced due to wear notches. If the rope diameter has decreased by 10% or more in relation to the nominal dimension, then the wire rope is to be replaced even if no wire breaks are determined.

Rope deformation

Deformations of the wire rope are visible changes in the rope structure. Depending upon the appearance, distinction is made between the following most important deformations:

Corkscrew-like deformation, birdcage formation, formation of wire loops, loosening of individual wires or strands, knots, constriction, flattening, curl-like deformation, high-stranding and kinks.

Deformations generally also cause a loosening of the rope structure, at least in the proximity of the deformation.

In the case of the corkscrew-like deformation, the axle of the unloaded wire rope becomes a helix.

Steel Wire Ropes

Rope Thickness

Class 1770

DIN EN 12385

DoDra

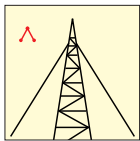


**even, hardened
(standard)**

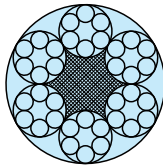


**welded /
pointed**

DoDra 607 Round Strand Wire Rope, 6 x 7+ Fibre Core (FC), Cl.6 x 7

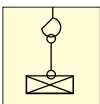


Rigging rope

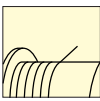


Rope-Nom. Ø mm	Rotation for discarding	Weight kg/m	Min. breaking force kN	Item no.	galvanized Price each m.
2	42	0,0143	2,35	0101 0203	Price on enquiry
3	42	0,0322	5,29	0101 0303	
4	42	0,0572	9,41	0101 0403	
5	42	0,0894	14,70	0101 0503	
6	42	0,1290	21,10	0101 0603	
8	42	0,2290	37,60	0101 0803	

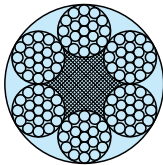
DoDra 619 Round Strand Wire Rope, 6 x 19 + Fibre Core (FC), Cl.6 x 19



Rope sling



Hoist rope



Rope-Nom. Ø mm	Rotation for discarding	Weight kg/m	Min. breaking force kN	Item no.	galvanized Price each m.
3	114	0,0311	4,9	0102 0303	Price on enquiry
4	114	0,0554	8,7	0102 0403	
5	114	0,0865	13,6	0102 0503	
6	114	0,1250	19,6	0102 0603	
8	114	0,2210	34,8	0102 0803	
10	114	0,3460	54,4	0102 1003	
12	114	0,4980	78,3	0102 1203	
13	114	0,5850	91,9	0102 1303	
14	114	0,6780	107,0	0102 1403	
16	114	0,8860	139,0	0102 1603	

How to order correctly:

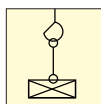
Please complete your order, where applicable, with the last digit of the Item no. for your order as follows:
ungalvanized . = 2, galvanized . = 3

Please state the desired processing of the ends, e.g. welded, pointed, even.

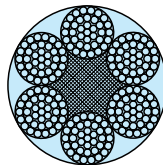
Steel wire ropes are supplied in rings. If reels are requested, please state so!

Fully assembled wire rope ends are on the inside upon delivery.

DoDra 637 Round Strand Wire Rope, 6 x 37 + Fibre Core (FC), Cl. 6 x 37



Rope sling



Rope-Nom. Ø mm	Rotation for discarding	Weight kg/m	Min. breaking force kN	Item no.	galvanized Price each m.
8	222	0,221	33,4	0103 0803	Price on enquiry
10	222	0,346	52,2	0103 1003	
12	222	0,498	75,1	0103 1203	
13	222	0,585	88,2	0103 1303	
14	222	0,678	102,0	0103 1403	
16	222	0,886	134,0	0103 1603	
18	222	1,120	169,0	0103 1803	
20	222	1,380	209,0	0103 2003	
22	222	1,670	253,0	0103 2203	
24	222	1,990	301,0	0103 2403	
26	222	2,340	356,0	0103 2603	
28	222	2,710	409,0	0103 2803	
30	222	3,130	471,0	0103 3003	
32	222	3,540	534,0	0103 3203	
36	222	4,480	676,0	0103 3603	
40	222	5,540	835,0	0103 4003	
44	222	6,700	1010,0	0103 4403	
48	222	7,970	1192,82	0103 4803	

Order example:

If you want to order:
100 m wire rope DIN EN 12385, galvanized, with fibre core, rope diameter 20 mm.

Your order would read:
100 m Item no. 0104 2003



Simple Rope Roll Checking

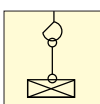
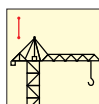
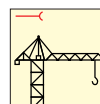
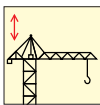
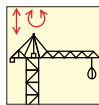
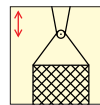
coins euro	for rope-Ø
1 Cent	16 mm
2 Cent	18 mm
5 Cent	20 mm
20 Cent	22 mm
50 Cent	24 mm
2 Euro	26 mm

Example: A 50-cent-coin must fit in the groove base of a rope sheave for a 24 mm-rope runs smoothly.



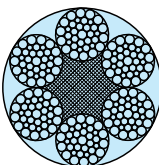
Rope maintenance agent grease/rope lubricant can be found on page 294!

DoDra 636 WS Round Strand Wire Rope, 6 x 36 + Steel Core (IWRC), Warrington Seale, Class 6 x 36

	Rope-Nom.Ø mm	Rotation for discarding	Weight kg/m	Min breaking force kN	Item no.	ungalvanized Price each m.	galvanized Price each m.
	12	216	0,602	89,9	0134 120.	Price on enquiry	Price on enquiry
	13	216	0,707	106,0	0134 130.		
	14	216	0,820	124,0	0134 140.		
	16	216	1,070	161,0	0134 160.		
	18	216	1,350	204,0	0134 180.		
	20	216	1,670	252,0	0134 200.		
	22	216	2,020	304,0	0134 220.		
	24	216	2,410	363,0	0134 240.		
	26	216	2,830	425,0	0134 260.		
	28	216	3,280	493,0	0134 280.		

DoDra 636 WS Round Strand Wire Rope, 6 x 36 + Fibre Core (FC), Warrington Seale, Class 6 x 36

Please complete your order, if necessary, last digit of Item no. as follows:
 ungalvanized = 2,
 galvanized = 3



Rope-Nom.Ø mm	Rotation for discarding	Weight kg/m	Min breaking force kN	Item no.	ungalvanized Price each m.	galvanized Price each m.
13	216	0,643	98,3	0104 130.	Price on enquiry	Price on enquiry
14	216	0,745	114,0	0104 140.		
16	216	0,973	149,0	0104 160.		
18	216	1,230	189,0	0104 180.		
20	216	1,520	234,0	0104 200.		
22	216	1,840	282,0	0104 220.		
24	216	2,190	336,0	0104 240.		
26	216	2,570	395,0	0104 260.		

Steel Wire Ropes

Rope Thickness

Class 1770

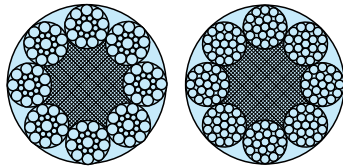
DIN EN 12385

DoDra



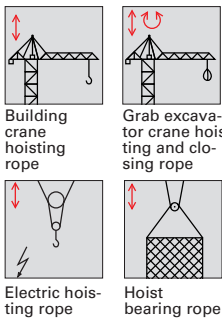
Please only allow experts to mount ropes; nearly all rope damage is caused to running ropes due to mounting errors!

DoDra 819 S Round Strand Wire Ropes, 8 x 19 + Steel Core (IWRC), Seale, Class 8 x 19



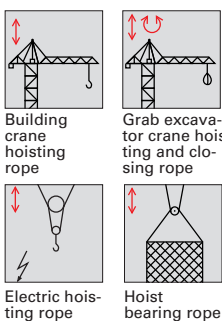
Rope-Nom.Ø mm	Rotation for discarding	Weight kg/m	Min. breaking force kN	Item no.	ungalvanized Price each m.
9	152	0,344	50,0	0139 0902	Price on enquiry
10	152	0,425	59,9	0139 1002	
11	152	0,514	72,5	0139 1102	
12	152	0,612	86,3	0139 1202	
13	152	0,719	101,0	0139 1302	
14	152	0,833	117,0	0139 1402	Price on enquiry

DoDra 819 F Round Strand Wire Ropes, 8 x 19 + Steel Core (IWRC), Filler, Class 8 x 19



Rope-Nom.Ø mm	Rotation for Discarding	Weight kg/m	Min. breaking force kN	Item no.	ungalvanized Price each m.
15	152	0,979	138,0	0142 1502	Price on enquiry
16	152	1,110	157,0	0142 1602	
18	152	1,410	199,0	0142 1802	
20	152	1,740	245,0	0142 2002	
22	152	2,100	297,0	0142 2202	

DoDra 819 W Round Strand Wire Rope, 8 x 19 + Steel Core (IWRC), Warrington, Class 8 x 19



Rope-Nom.Ø mm	Rotation for Discarding	Weight kg/m	Min. breaking force kN	Item no.	ungalvanized Price each m.
15	152	0,957	135,0	0148 1502	Price on enquiry
16	152	1,090	153,0	0148 1602	
18	152	1,380	194,0	0148 1802	
20	152	1,700	240,0	0148 2002	
22	152	2,060	290,0	0148 2202	



Rule for storing ropes: first in – first out!

8-strand ropes have a rounder surface than 6-strand types - benefit when running over rolls.

Doubling of the rope diameter = approx. 4x breaking force = approx. 4x weight



Simple Rope Roll Checking

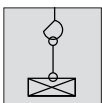
coins euro	for rope-Ø
1 Cent	16 mm
2 Cent	18 mm
5 Cent	20 mm
20 Cent	22 mm
50 Cent	24 mm
2 Euro	26 mm

Example: A 50-cent-coin must fit in the groove base of a rope sheave for a 24 mm-rope runs smoothly.

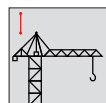
Sharpening of wire ropes

each mm Rope-Ø	Price	on enquiry
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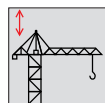
DoDra 836, 8 x 36 + Steel Core (IWRC)



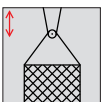
Rope sling



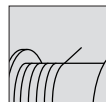
Building crane pendant rope



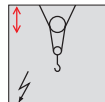
Building crane hoisting rope



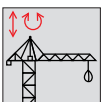
Hoist bearing rope



Hoisting rope



Electric hoisting rope



Grab excavator crane hoisting and closing rope

Rope-Nom.Ø mm	Rotation for discarding	Weight kg/m	Min breaking force kN	Item no.	ungalvanized Price each m.
13	288	0,736	101,0	0136 1302	
14	288	0,852	117,0	0136 1402	
16	288	1,110	153,0	0136 1602	Price on enquiry
18	288	1,410	194,0	0136 1802	
20	288	1,740	239,0	0136 2002	
22	288	2,100	290,0	0136 2202	
24	288	2,510	345,0	0136 2402	
25	288	2,725	345,0	0136 2502	Price on enquiry
26	288	2,830	405,0	0136 2602	

Cutting, wire ropes

Rope-Ø mm	0-100 m Price each	101-300 m Price each	> 300 m Price each
to 4,9	Price on enquiry	Price on enquiry	Price on enquiry
5,0 - 9,9			
10,0 - 19,9			
20,0 - 25,9			
from 26,0			

Special wire ropes

DoRope



A high breaking force factor is not a bench-mark for quality. A crucial factor is the rope geometry!



= non-rotating

	DoCasar Starlift	DoDiepa 1315	DoRope KSZ	DoRope W 357	DoCasar Eurolift	DoDiepa 915 CZ	DoDiepa 1315 CZ	DoRope W 357 V	DoCasar Stratolift	DoCasarStratoplast	DoDiepa P 825	DoRope W 825 P	DoRope DP 8	DoRope DD 9	DoCasar Turbolift	DoCasar Turboplast	DoDiepa PZ 371	DoDiepa SKZ 8	DoCasar Paraplast
Building crane hoisting rope																			
Building crane luffing rope																			
Building crane trolley rope																			
Building crane assembly rope																			
Building crane pendant rope																			
Mobile crane hoisting rope																			
Mobile crane luffing rope																			
Mobile crane pendant rope																			
Container crane lifting rope																			
Container crane luffing rope																			
Smeltery crane hoisting rope																			
Grab excavator host-ing and closing rope																			
Grab excavator pendant rope																			
Grab excavator luffing rope																			
Cable crane hoisting rope																			
Cable crane trolley rope																			
On-board crane luffing rope																			
Floating crane hoisting rope																			
Floating crane luffing rope																			
Offshore crane hoisting rope																			
Offshore crane hoisting rope																			
Dredger/hoisting-and closing rope																			
Floating crane hoisting rope																			
Backhoe hoisting rope																			
Backhoe pendant rope																			
Dredge bucket holding rope																			
Dredge bucket luffing rope																			
Bulk goods discharg.crane hoisting-closing+ grab rope																			
Bulk goods discharg.crane trolley/pendant comp.																			
Electro hoist hoisting rope																			

Dolezych has the ideal construction for every purpose and is giving you an overview of non-rotating and low-tension special designs.



The use of special wire ropes results in no additional costs due to shorter down-times and lower mounting costs, because they are less frequently mounted to a system.

Please only allow experts to mount ropes!



Special wire ropes non-rotating single layer spooling



DoRope



Forced external twists through damaged grooves in the sheave/drums, too large fleet angles or mounting errors change the torque of the non-rotating designs greatly!

The rope types presented here

- are non-rotating, flexible hoisting ropes with steel core
- intensively lubricated
- high breaking force
- special constructed steel core which prevents cross lay between the strands and reduces the danger of destructions inside the rope
- used globally due to excellent endurance characteristics
- a swivel is recommended as a fixed point.

Ropes with greater breaking force can be delivered upon request!



DoCasar Starlift*

Rope-Nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item no. ungalvanized	Price per meter
10	112	0,460	69,2	0164 1002	Price on enquiry
12	112	0,664	99,9	0164 1202	
13	112	0,779	117,3	0164 1302	
14	112	0,904	135,9	0164 1402	
16	112	1,184	178,1	0164 1602	
18	112	1,480	222,6	0164 1802	
20	112	1,846	277,7	0164 2002	
22	112	2,240	337,0	0164 2202	
24	112	2,662	400,5	0164 2402	
26	112	3,119	469,2	0164 2602	



DoDiepa 1315*

Rope-Nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item no. ungalvanized	Price per meter
10	105	0,470	70,6	0077 1002	Price on enquiry
12	105	0,690	103,0	0077 1202	
13	105	0,800	120,0	0077 1302	
14	105	0,930	139,0	0077 1402	
16	105	1,200	179,0	0077 1602	
18	105	1,520	227,0	0077 1802	
20	105	1,890	282,0	0077 2002	
22	105	2,280	340,0	0077 2202	
24	105	2,700	405,0	0077 2402	
26	105	3,170	474,0	0077 2602	

* Also available in lang lay!



DoRope KSZ

Rope-Nom. Ø mm	Number of wires for Discarding	Weight kg/m	Min. breaking Load kN	Item no.	ungalvan. Price per Meter	Min. breaking Load kN	Item no.	galvanized Price per Meter
10	119	0,450	87,9	01401004	Price on enquiry	96,8	01401005	Price on enquiry
12	119	0,650	126,5	01401204		139,4	01401205	
13	119	0,770	148,4	01401304		163,5	01401305	
14	119	0,890	172,2	01401404		189,7	01401405	
16	119	1,160	224,8	01401604		247,8	01401605	
18	119	1,470	284,6	01401804		313,6	01401805	
20	119	1,820	351,3	01402004		387,2	01402005	
22	119	2,200	425,2	01402204		468,5	01402205	
24	119	2,620	506,0	01402404		557,6	01402405	



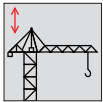
DoRope W 357

Rope-Nom. Ø mm	Number of wires for Discarding	Weight kg/m	Min. breaking Load kN	Item no.	galvanized Price per Meter
8	112	0,295	49,4	21630805	Price on enquiry
9	112	0,373	62,2	21630905	
10	112	0,461	76,8	21631005	
12	112	0,663	111,0	21631205	
13	112	0,779	130,0	21631305	
14	112	0,903	150,0	21631405	
16	112	1,180	197,0	21631605	
18	112	1,490	249,0	21631805	
20	112	1,840	308,0	21632005	
22	112	2,230	372,0	21632205	

Special wire ropes non-rotating, compacted for multiple layer spooling



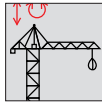
DoRope



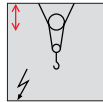
Building crane
hoisting rope



Mobile crane
hoisting rope



Offshore crane
hoisting rope



Electro hoist
hoisting rope



DoCasar Eurolift

Rope-Nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item no.	Price per Meter	Min. breaking force kN	Item no.	Price per meter
10	126	0,490	81,90	8158 1002	Price on enquiry	89,60	8158 1004	Price on enquiry
12	126	0,705	118,20	8158 1202		130,80	8158 1204	
13	126	0,821	139,00	8158 1302		152,70	8158 1304	
14	126	0,949	161,70	8158 1402		179,10	8158 1404	
16	126	1,257	209,40	8158 1602		230,60	8158 1604	
18	126	1,601	266,90	8158 1802		293,90	8158 1804	
20	126	1,956	329,30	8158 2002		362,20	8158 2004	
22	126	2,373	398,50	8158 2202		441,40	8158 2204	
24	126	2,813	474,30	8158 2402		524,30	8158 2404	
26	126	3,285	555,00	8158 2602		614,90	8158 2604	

How to order correctly:

Please complete you order, where applicable, with the last digit of the Item no. for your order as follows:

ungalvanized . = 2 / 4

galvanized . = 3 / 5

Please state the desired processing of the ends, e.g. welded, pointed, even. Steel wire ropes are supplied in rings, if reels are requested, please state! Fully assembled wire rope ends are on the inside on delivery!



DoDiepa 915 CZ

Rope-Nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item no.	Price per Meter	Min. breaking force kN	Item no.	Price per meter
8	105	0,300	47,6	6015 0902	Price on enquiry	52,7	6015 0904	Price on enquiry
9	105	0,380	60,2	6015 0902		66,7	6015 0904	
10	105	0,470	74,3	6015 1002		82,3	6015 1004	
12	105	0,670	107,0	6015 1202		119,0	6015 1204	
13	105	0,790	126,0	6015 1302		139,0	6015 1304	
14	105	0,910	146,0	6015 1402		161,0	6015 1404	
16	105	1,190	190,0	6015 1602		211,0	6015 1604	
18	105	1,510	241,0	6015 1802		267,0	6015 1804	
20	105	1,860	297,0	6015 2002		329,0	6015 2004	
22	105	2,250	360,0	6015 2202		398,0	6015 2204	
24	105	2,680	428,0	6015 2402	474,0	6015 2404		



All ropes are in lang's lay variant!



DoDiepa 1315 CZ

Rope-Nom. Ø mm	Number of wires for Discarding	Weight kg/m	Min. breaking Load kN	Item no.	Price per Meter	Min. breaking Load kN	Item no.	Price per meter
8	90	0,300	47,1	6077 0802	Price on enquiry	52,6	6077 0804	Price on enquiry
9	90	0,370	58,1	6077 0902		64,3	6077 0904	
10	105	0,510	82,4	6077 1002		91,7	6077 1004	
12	105	0,730	119,0	6077 1202		132,0	6077 1204	
13	105	0,860	141,0	6077 1302		156,0	6077 1304	
14	105	0,990	162,0	6077 1402		181,0	6077 1404	
16	105	1,310	214,0	6077 1602		238,0	6077 1604	
18	105	1,650	271,0	6077 1802		301,0	6077 1804	
20	105	2,040	334,0	6077 2002		371,0	6077 2004	
21	105	2,260	371,0	6077 2102		412,0	6077 2104	
22	105	2,480	406,0	6077 2202	451,0	6077 2204		
24	105	2,940	481,0	6077 2402	534,0	6077 2404		
26	105	3,380	554,0	6077 2602	616,0	6077 2604		



DoRope W 357 V, galvanized

Rope-Nom. Ø mm	Number of wires for Discarding	Weight kg / m	Min. breaking Load kN	Item no.	Price per meter
8	112	30,1	51,9	0020 0805	Price on enquiry
10	112	47,1	80,0	0020 1005	
12	112	67,8	115,0	0020 1205	
13	112	79,6	135,0	0020 1305	
14	112	92,3	157,0	0020 1405	
16	112	121	205,0	0020 1605	
18	112	153	259,0	0020 1805	
20	112	188	320,0	0020 2005	
22	112	228	387,0	0020 2205	
24	112	271	461,0	0020 2405	
26	112	318	541,0	0020 2605	



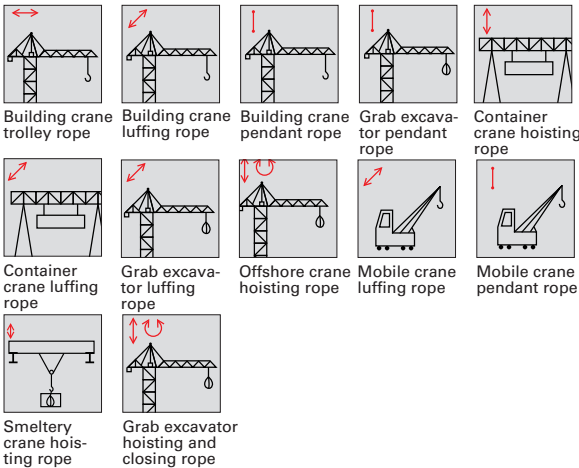
Special wire ropes low-tension

* = Plastic coated
Steel core

DoRope



Rope maintenance can significantly increase excessive service life. You can find rope maintenance agents on page 294.



DoRope W825P*					
Rope-Nom. Ø mm	No. of wires for discarding	Weight kg/m	Min. breaking force kN	Item no.	galvanized Price per meter
8	152	0,2700	48,70	0045 0805	Price on enquiry
10	152	0,4300	76,00	0045 1005	
12	152	0,6200	109,00	0045 1205	
13	152	0,7300	128,00	0045 1305	
14	152	0,8500	149,00	0045 1405	
16	152	1,1100	195,00	0045 1605	
18	152	1,4100	246,00	0045 1805	
20	152	1,7400	304,00	0045 2005	
22	152	1,9100	368,00	0045 2205	
24	152	2,2900	438,00	0045 2405	
26	152	2,9100	514,00	0045 2605	

DoRope DP 8*					
Rope-Nom. Ø mm	No. of wires for discarding	Weight kg/m	Min. breaking force kN	Item no. ungalvanized	Price per meter
10	152	0,43	75,6	0128 1004	Price on enquiry
12	152	0,62	108,8	0128 1204	
13	152	0,73	127,7	0128 1304	
14	152	0,84	148,1	0128 1404	
16	152	1,10	193,4	0128 1604	
18	152	1,40	244,8	0128 1804	
20	152	1,72	302,2	0128 2004	
22	152	2,09	365,7	0128 2204	
24	152	2,48	435,2	0128 2404	
26	152	2,91	510,8	0128 2604	

Due to the plastic coated steel core, operational temperature is max. +280° C

DoCasar Stratolift								
Rope-Nom. Ø mm	No. of wires for discarding	Weight kg/m	Min. breaking force kN	Item no.	ungalv. Price per meter	Min. breaking force kN	Item no.	ungalvanized Price per meter
10	152	0,461	78,8	0165 1002	Price on enquiry	87,3	0165 1004	Price on enquiry
12	152	0,667	114,0	0165 1202		126,3	0165 1204	
13	152	0,775	132,4	0165 1302		146,6	0165 1304	
14	152	0,891	152,4	0165 1402		168,7	0165 1404	
16	152	1,175	200,9	0165 1602		222,5	0165 1604	
18	152	1,494	255,4	0165 1802		282,8	0165 1804	
20	152	1,690	317,8	0165 2002		352,0	0165 2004	
22	152	2,272	388,5	0165 2202		430,2	0165 2204	
24	152	2,665	455,7	0165 2402		504,7	0165 2404	
26	152	2,879	531,7	0165 2602		588,8	0165 2604	

DoCasar Stratoplast*								
Rope-Nom. Ø mm	No. of wires for discarding	Weight kg/m	Min. breaking force kN	Item no.	ungalv. Price per meter	Min. breaking force kN	Item no.	ungalvanized Price per meter
8	152	0,283	47,2	0166 0802	Price on enquiry	52,3	0166 0804	Price on enquiry
10	152	0,444	74,0	0166 1002		82,0	0166 1004	
12	152	0,643	106,6	0166 1202		118,0	0166 1204	
13	152	0,746	125,5	0166 1302		138,9	0166 1304	
14	152	0,864	144,6	0166 1402		160,1	0166 1404	
16	152	1,140	189,0	0166 1602		209,3	0166 1604	
18	152	1,437	239,8	0166 1802		265,5	0166 1804	
20	152	1,802	295,3	0166 2002		327,0	0166 2004	
22	152	2,186	356,2	0166 2202		394,5	0166 2204	
24	152	2,579	423,4	0166 2402		468,9	0166 2404	
26	152	3,006	504,7	0166 2602	558,8	0166 2604		

DoDiepa P 825*								
Rope-Nom. Ø mm	No. of wires for discarding	Weight kg/m	Min. breaking force kN	Item no.	ungalv. Price per meter	Min. breaking force kN	Item no.	ungalvanized Price per meter
8	152	0,270	43,7	0078 0802	Price on enquiry	48,6	0078 0804	Price on enquiry
10	152	0,420	68,2	0078 1002		76,0	0078 1004	
12	152	0,650	106,0	0078 1202		118,0	0078 1204	
13	152	0,760	122,0	0078 1302		136,0	0078 1304	
14	152	0,850	137,0	0078 1402		152,0	0078 1404	
16	152	1,160	187,0	0078 1602		208,0	0078 1604	
18	152	1,460	236,0	0078 1802		262,0	0078 1804	
20	152	1,780	288,0	0078 2002		320,0	0078 2004	
22	152	2,230	361,0	0078 2202		401,0	0078 2204	
24	152	2,610	422,0	0078 2402		469,0	0078 2404	
26	152	3,070	497,0	0078 2602	552,0	0078 2604		

Special wire ropes low-tension

* = Plastic coated
Steel core

DoRope

Please note:

Plastic intermediate cores result in greater smoothness, corrosion resistance and great rope stability during the mounting.

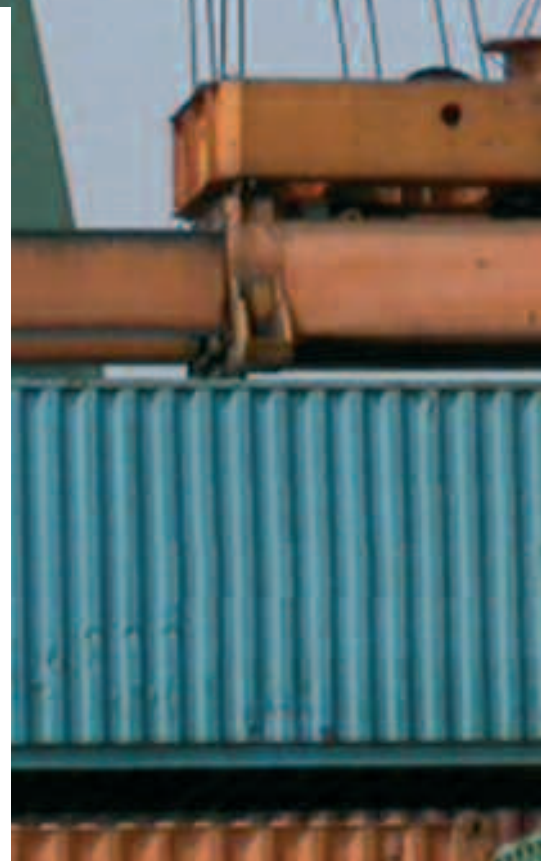
A high breaking force factor is not a benchmark for quality – the crucial factor is the rope geometry!

Compacted rope diameter means a greater minimum breaking force at approximately equal weight and rope diameter.



DoRope DD 9						
Rope-Nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item no. ungalvanized	Price per meter	
10	171	0,490	89,00	0161 1004	Price on enquiry	
12	171	0,710	128,10	0161 1204		
13	171	0,830	150,40	0161 1304		
14	171	0,960	174,40	0161 1404		
16	171	1,260	227,80	0161 1604		
18	171	1,590	288,30	0161 1804		
20	171	1,960	355,90	0161 2004		
22	171	2,340	438,30	0161 2204		
24	171	2,790	521,60	0161 2404		
26	171	3,270	612,10	0161 2604		

DoCasar Turbolift								
Rope-Nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item no. ungalvanized	Price per Meter	Min. breaking force kN	Item no. ungalvanized	Price per
10	152	0,489	84,9	0065 1002	Price on enquiry	94,0	0065 1004	Price on enquiry
12	152	0,708	122,4	0065 1202		135,5	0065 1204	
13	152	0,833	143,0	0065 1302		158,4	0065 1304	
14	152	0,968	166,2	0065 1402		184,1	0065 1404	
16	152	1,263	218,4	0065 1602		241,9	0065 1604	
18	152	1,591	278,5	0065 1802		308,4	0065 1804	
20	152	1,968	342,3	0065 2002		379,0	0065 2004	
22	152	2,388	414,4	0065 2202		458,9	0065 2204	
24	152	2,840	490,2	0065 2402		542,8	0065 2404	
26	152	3,329	574,4	0065 2602		636,0	0065 2604	





Special wire ropes low torsion compacted

* = Plastic coated
Steel core

DoRope

How to order correctly:

Please complete, where applicable, the last digit of the Item no. for your order as follows:

ungalvanized . = 2 / 4

galvanized . = 3 / 5

Please state the desired processing of the ends, e.g. weld, pointed or even.

Steel wire cables are supplied in rings, if crown is requested, please state.

The fully assembled rope ends are on the inside on delivery.

DoCasar Turboplast*

Rope-Nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item no.	ungalvanized Price per Meter	Min. breaking force kN	Item no.	ungalvanized Price per meter
10	152	0,448	78,6	0167 1002	5,25	87,0	0167 1004	Price on enquiry
12	152	0,650	112,8	0167 1202	6,20	124,9	0167 1204	
13	152	0,765	133,9	0167 1302	7,30	148,3	0167 1304	
14	152	0,887	154,8	0167 1402	7,50	171,4	0167 1404	
16	152	1,166	203,1	0167 1602	9,90	224,9	0167 1604	
18	152	1,456	255,1	0167 1802	11,10	282,5	0167 1804	
20	152	1,812	314,7	0167 2002	13,00	348,5	0167 2004	
22	152	2,196	384,0	0167 2202	15,50	425,2	0167 2204	
24	152	2,608	455,4	0167 2402	18,10	504,2	0167 2404	
26	152	3,066	538,1	0167 2602	20,40	595,9	0167 2604	

Due to the plastic coating steel core operation temperature is max. +280° C

DoRope SR 919 P*

Rope-Nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item no.	ungalvanized Price per meter
12	171	0,600	122,0	0038 1204	Price on enquiry
14	171	0,840	167,0	0038 1404	
16	171	1,100	218,0	0038 1604	
20	171	1,720	340,0	0038 2004	
24	171	2,480	490,0	0038 2404	

Due to the plastic coating steel core operation temperature is max. +280° C

Special wire ropes low torsion compacted

* = Plastic coated

Steel core

DoRope

DoDiepa PZ 371*

Rope-Nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item no.	Price per meter	Min. breaking force kN	Item no.	Price per meter
8	152	0,3000	51,00	0037 0802	Price on enquiry	56,5	0037 0804	Price on enquiry
10	152	0,4700	79,80	0037 1002		88,40	0037 1004	
12	152	0,6800	115,00	0037 1202		128,00	0037 1204	
13	152	0,8000	135,00	0037 1302		150,00	0037 1304	
14	152	0,9200	156,00	0037 1402		173,00	0037 1404	
16	208	1,2100	204,00	0037 1602		226,00	0037 1604	
18	208	1,5300	258,00	0037 1802		286,00	0037 1804	
20	208	1,8900	319,00	0037 2002		354,00	0037 2004	
22	208	2,2800	386,00	0037 2202		428,00	0037 2204	
24	208	2,7200	459,00	0037 2402		509,00	0037 2404	
26	208	3,1900	539,00	0037 2602	597,00	0037 2604		

Due to the plastic coating steel core operation temperature is max. +280° C

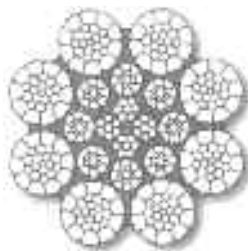
DoDiepa SKZ 8

Rope-Nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item no.	Price per Meter	Min. breaking force kN	Item no.	Price per meter
8	152	0,3200	55,3	0008 0802	Price on enquiry	61,3	0008 0804	Price on enquiry
10	152	0,4900	86,50	0008 1002		95,80	0008 1004	
12	152	0,7100	123,00	0008 1202		136,00	0008 1204	
13	152	0,8300	143,00	0008 1302		159,00	0008 1304	
14	152	0,9800	168,00	0008 1402		187,00	0008 1404	
16	208	1,2800	221,00	0008 1602		245,00	0008 1604	
18	208	1,6300	281,00	0008 1802		311,00	0008 1804	
20	208	2,0000	344,00	0008 2002		383,00	0008 2004	
22	208	2,4500	422,00	0008 2202		469,00	0008 2204	
24	208	2,8700	496,00	0008 2402		550,00	0008 2404	
26	208	3,3300	574,00	0008 2602	638,00	0008 2604		

DoCasar Paraplast

- excellent runnability and endurance on all hoists (+ electric hoists)
- is an 8-strand rope in double-parallel construction made from compacted external strands
- is intensively lubricated
- is filled with plastic
- has a very high breaking capacity
- galvanised design

DoCasar Paraplast*



Item no.	Rope-Nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Price per meter
0044 0607	6,0	208	16,1	35,2	Price on enquiry
0044 0707	7,0	208	22,4	48,9	
0044 0757	7,5	208	25,2	58,9	
0044 0807	8,0	208	29,6	64,4	
0044 0907	9,0	208	37,4	81,8	
0044 1107	11,0	208	55,9	122,1	

Winch ropes, for forrest application

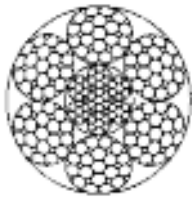
Strand compacted

DoRope

DoRope forest ropes have an optimal rope construction. With the help of special rope compression techniques it is possible to achieve a higher metallic cross-section and therefore even hig-

her breaking forces. A smoother rope surface leads to a longer service life of the rope and is achieved by the strand compression at the end of the production process.

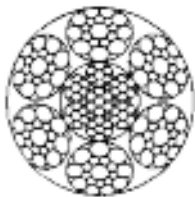
DoForst 625 FDV, 6 x 19 Filler + Steel Core (150 wires)



flexible rope design

Rope-nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item No.	Price per meter
8	114	0,361	63,2	2143 0804	Price on enquiry
9	114	0,441	77,2	2143 0904	
10	114	0,529	92,9	2143 1004	
11	114	0,625	110,0	2143 1104	
12	114	0,729	127,0	2143 1204	
13	114	0,841	147,0	2143 1304	
14	114	0,961	168,0	2143 1404	
15	114	1,090	191,0	2143 1504	
16	114	1,230	227,0	2143 1604	

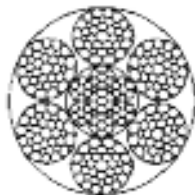
DoForst 619 SDV, 6 x 19 Seale + Steel Core (114 wires)



solid + abrasion resistant rope design
due to thicker external wires

Rope-nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item No.	Price per meter
8	114	0,361	63,2	2135 0804	Price on enquiry
9	114	0,441	77,2	2135 0904	
10	114	0,529	92,9	2135 1004	
11	114	0,625	110,0	2135 1104	
12	114	0,729	127,0	2135 1204	
13	114	0,841	147,0	2135 1304	
14	114	0,961	168,0	2135 1404	
15	114	1,090	191,0	2135 1504	
16	114	1,230	227,0	2135 1604	

DoForst 631 DV, 6 x 31 Warrington-Seale + Steel Core (186 wires)



highest flexibility with high
breaking force

Rope-nom. Ø mm	Number of wires for discarding	Weight kg/m	Min. breaking force kN	Item No.	Price per meter
8	186	0,369	63,0	2131 0804	Price on enquiry
9	186	0,451	76,9	2131 0904	
10	186	0,541	92,3	2131 1004	
11	186	0,639	109,0	2131 1104	
12	186	0,745	127,0	2131 1204	
13	186	0,860	146,0	2131 1304	
14	186	0,983	167,0	2131 1404	
15	186	1,110	190,0	2131 1504	
16	186	1,250	213,0	2131 1604	

Coated steel wire ropes

Galvanized
Strength class 1770

Stainless Steel
Strength Class 1570

DoDra



All coatings reduce abrasion, noises and improve the smoothness



Coating materials

- PVC, soft and bendable, mainly enhances corrosion protection
- Polyamide provides abrasion resistance
- Polyethylene and polypropylene protect against chemical effects
- Teflon has a strong chemical resistance, but is not quite as abrasion resistant as, for instance, polyamide

Select a plastic coating if the galvanized plastic surface is to be additionally protected against corrosion or if the metallic surface of the rope can hamper the endurance of the system.

Aesthetic aspects may also be prevalent, ask for various coating colours. For special purposes, special coatings are possible – our Dolezych specialist advisers will be happy to help you.

Coating				
	PA 6	FEP	PVC	PE
	Polyamide	Teflon	Polyvinyl-chloride	Polyethylene
Usage temperature	-40°C to +110°C	-100°C to +205°C	-30°C to +70°C	-50°C to +100°C
short term	+140°C	+230°C	+100°C	+120°C
Rotting resistance	good	very good	good	good
Flammability	in-flammable	non-flammable	self-extinguish.	non-flammable
Abrasion resistance	very good	conditional	conditional	good

Apart from these coating materials, other plastics are possible – please give us your intended area of application. As a rule, all coatings reduce abrasion, reduce noises and improve the balance.

DoDra K 607
round strand rope
6 x 7 + Fibre core (CF)
PVC-coated - transparent
*special design
4 x 4 + iron core

Rope-Nom. Ø/ total-Ø mm	Weight kg/m	Min. breaking force kN	Item no.	Price per 100 meter
1,1 / 2*	0,0120	0,48	0050 0111	Price on enquiry
2,0 / 3	0,0184	2,35	0050 0201	
2,5 / 3,5	0,0280	3,80	0050 0251	
3,0 / 4	0,0377	5,29	0050 0301	
4,0 / 5	0,0645	9,41	0050 0401	

DoDra K 619
round strand rope
6 x 19 + fibre core (CF)
PVC-coated - transparent

Rope-Nom.Ø/ total-Ø mm	Weight kg/m	Min. breaking force kN	Item no.	Price per 100 meter
4,0 / 5	0,0681	8,70	0052 0401	Price on enquiry
5,0 / 6	0,0939	13,60	0050 0501	
6,0 / 8	0,1465	19,60	0050 0601	
8,0 / 10	0,2491	34,28	0050 0801	
10 / 12	0,4080	54,40	0050 1001	

DoDra T 619
Special chicken cage
FEPP-coating

Rope-Nom.Ø/ total-Ø mm	Weight kg/m	Min. breaking force kN	Item no.	Price per 100 meter
5,0 / 6	0,1250	14,70	0054 0501	on enquiry

DoDra K 707 wire rope
made from antirust steel wires
material no. 1.4401
PVC-coated, transparent

Rope-Nom.Ø/ total-Ø mm	Weight kg/m	Min. breaking force kN	Item no.	Price per 100 meter
3,0 / 5	0,0522	5,6	0170 0501	on enquiry
4,0 / 6	0,0941	9,6	0170 0603	on enquiry
4,0 / 8	0,1163	9,6	0170 0801	on enquiry
5,0 / 7	0,1106	14,9	0170 0703	on enquiry



Black Ropes for Theater, Rigging and Design

DoDra

6x7 + Steel Core

Rope diameter mm	Weight kg per 100 m	Item no.	Min. breaking load kN nom. strength 1770N/mm ²	Price per Meter	Item no.	Min. breaking load kN nom. strength 1960N/mm ²	Price per Meter
1,5	0,89	1131 0153	1,42	Price on enquiry	1131 0155	1,57	Price on enquiry
2	1,57	1131 0203	2,54		1131 0205	2,82	
2,5	2,46	1131 0253	3,96		1131 0255	4,39	
3	3,54	1131 0303	5,71		1131 0305	6,32	
4	6,29	1131 0403	10,20		1131 0405	11,30	
5	9,83	1131 0503	15,90		1131 0505	17,60	

17x7 + Steel Core

Rope diameter mm	Weight kg per 100 m	Item no.	Min. breaking force kN nom. strength 1770N/mm ²	Price per meter	Item no.	Min. breaking load kN nom. strength 1960N/mm ²	Price per meter
4	6,43	1082 0403	9,29	Price on enquiry	1082 0405	10,3	Price on enquiry
5	10,0	1082 0503	14,5		1082 0505	16,1	
6	14,5	1082 0603	20,9		1082 0605	23,1	
7	19,7	1082 0703	28,5		1082 0705	31,5	
8	25,7	1082 0803	37,2		1082 0805	41,1	

6x19 + Steel Core

Rope diameter mm	Weight kg per 100 m	Item no.	Min. breaking force kN nom strength 1770N/mm ²	Price per Meter	Item no.	Min. breaking load kN nom. strength 1960N/mm ²	Price per meter
3	3,42	1132 0303	5,29	Price on enquiry	1132 0305	5,86	Price on enquiry
4	6,09	1132 0403	9,4		1132 0405	10,40	
5	9,52	1132 0503	14,7		1132 0505	16,30	
6	13,80	1132 0603	21,2		1132 0605	23,50	
7	18,70	1132 0703	28,8		1132 0705	31,90	
8	24,30	1132 0803	37,6		1132 0805	41,60	

6x19 Warrington + Steel Core

Rope diameter mm	Weight kg per 100 m	Item no.	Min. breaking force kN nom strength 1770N/mm ²	Price per meter	Item no.	Min. breaking force kN nom. strength 1960N/mm ²	Price per meter
3	3,69	11410303	5,7	Price on enquiry	11410305	6,3	Price on enquiry
4	6,55	1141 0403	10,1		1141 0405	11,2	
5	10,20	1141 0503	15,8		1141 0505	17,5	
6	14,70	1141 0603	22,8		1141 0605	25,2	
7	20,10	1141 0703	31,0		1141 0705	34,3	
8	26,20	1141 0803	40,5		1141 0805	44,8	

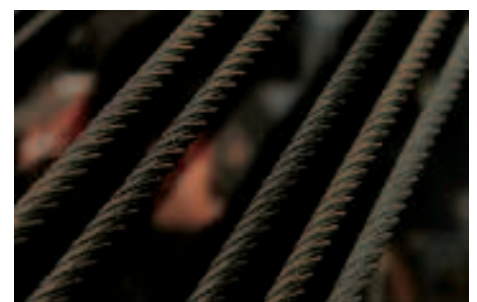
Black ropes...

...have been in our special ropes programme since the beginning of 2002 and are manufactured by us for stage technology and the architectural design at a high quality level. Under the brand name BLACK STAR, we supply various rope constructions and dimensions with six strands. Our programme includes black ropes in dimensions from 1.5 – 8 mm.

We can offer you standard market variants for the core type: chemical fibre or steel core.

Our ropes are distributed globally. The ropes are subject to top quality requirements in their production. This includes a special colouring technique. Using a highly developed chemical procedure, the black colouring can be achieved. All wires used are aligned to the purpose. As a rule, for the surface coating we use special conservation coating which includes significant technical benefits regarding lubrication and colour resistance.

We guarantee the high-quality black colour of the ropes, but cannot provide a lifetime guarantee. The ropes achieved excellent down-time in our long-term tests. The ropes can be recoloured, if necessary. You can obtain the required material from us.



Rope accessories

Wire rope fastener

Rigging accessories

DoDra

Wire rope fastener for use in event technology

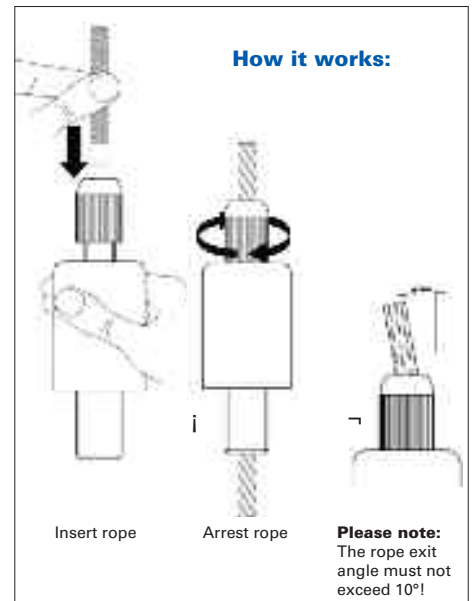
Rope lengths continuously adjustable due to spring arrest.

Please note when using:

- The wire rope fastener is not suitable for outdoor use!
- The steel ropes used must not be damaged!

- The nozzle of the wire rope fastener must have spring pressure before usage can begin!
- To ensure complete loading, the wire rope fastener must be clean from grease, oil, dirt and rust.
- The rope to be inserted must be closed at the end (hardened point).
- Wire rope fasteners must only be used in PAIRS in order to prevent the clutch part from unwinding.

The application of wire rope fasteners is allowed only for the rigging of static loads. For moving, dynamic loads, wire rope fasteners are not suitable. To ensure best possible safety, it is recommended to use several wire rope fasteners and to ensure that the objects are not subject to any movement.



Wire Rope Fastener Type 30



Rope nom. Ø in mm	nom. loading* approx. kg	with external thread M10	with eye bolt M10	with clevis 10x20	ring				
		Item no.	Price each	Item no.	Price each	Item no.	Price each	Item no.	Price each
2 - 3 mm	55	0395 8020	on enquiry	0395 8021	on enquiry	0395 8022	on enquiry	0395 8023	on enquiry

* Dependent on wire rope used

Wire Rope Fastener Type 50



Rope-nom. Ø in mm	nom. loading* approx. kg	with external thread M12	with eye bolt M12	with clevis 14x28			
		Item no.	Price each	Item no.	Price each	Item no.	Price each
4 - 5 mm	150	0395 8024	on enquiry	0395 8025	on enquiry	0395 8026	on enquiry

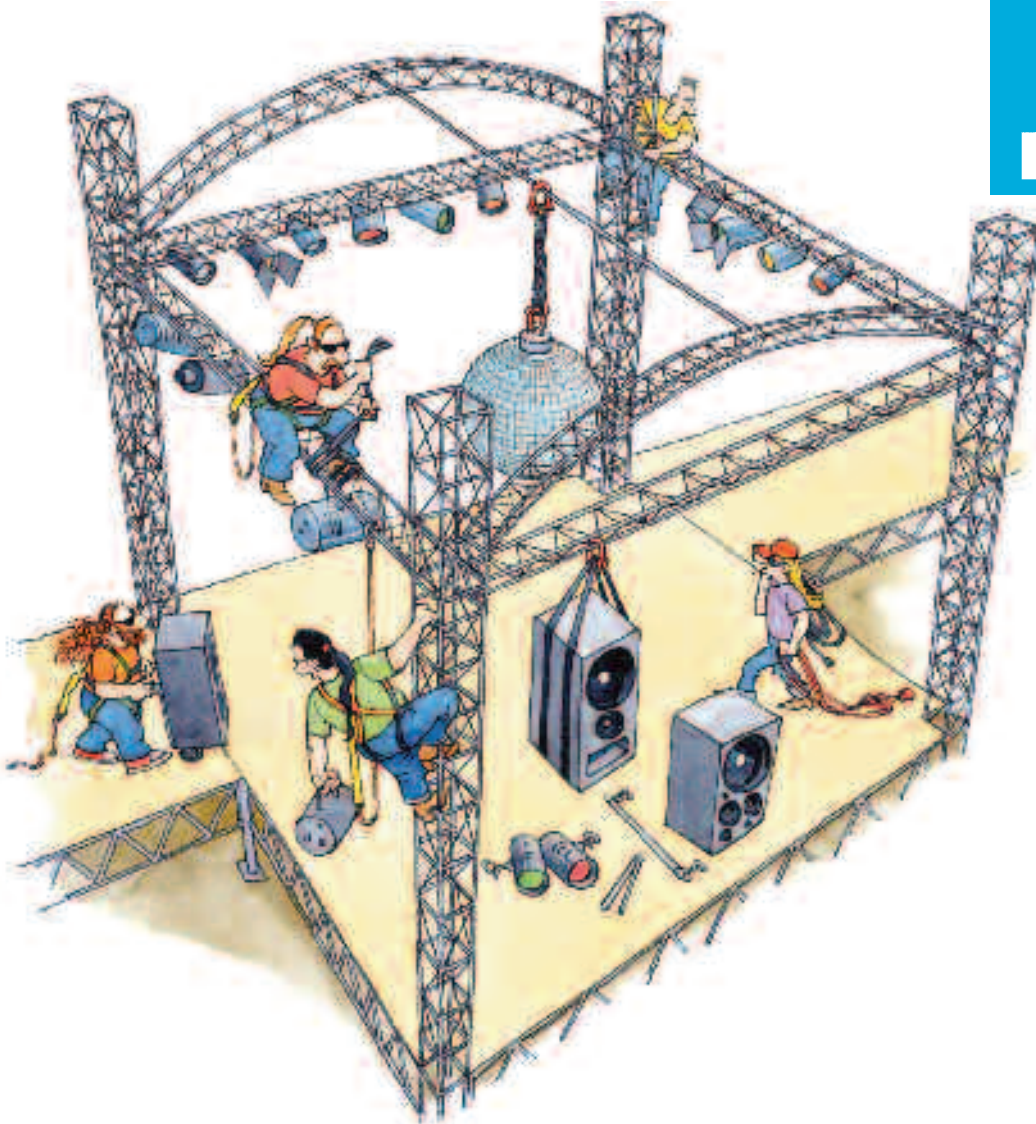
* Dependent on wire rope used

Wire Rope Fastener Type 80



Rope nom. Ø in mm	nom. loading* approx. kg	with external thread M20	with eye bolt M20	with clevis 20x40			
		Item no.	Price each	Item no.	Price each	Item no.	Price each
5 - 8 mm	350	0395 8027	on enquiry	0395 8028	on enquiry	0395 8029	on enquiry

* Dependent on wire rope used



You can find black round slings on page 66.

Safety Snap Hook with safety nut and thimble



Item no.	size mm	load capacity kg	Price each
0908 8908	90 x 8	200	on enquiry

Quick link acc. DIN 56926



Item no.	d	c	e	sizes l	h	b	load capacity kg	Price each
0908 8603	3,5	2,0	16,0	39,0	10,0	10,0	50	Price on enquiry
0908 8604	4	2,5	19,0	45,0	11,5	11,5	90	
0908 8605	5	3,0	22,0	52,0	13,0	13,0	140	
0908 8606	6	4,0	25,0	58,5	14,5	14,5	200	
0908 8607	7	5,0	28,0	65,0	16,0	16,0	270	
0908 8608	8	5,5	31,5	72,0	17,5	17,5	300	
0908 8609	9	6,0	33,0	77,0	19,0	19,0	450	
0908 8610	10	7,0	36,0	85,5	20,5	20,5	550	
0908 8612	12	8,5	43,0	100,0	23,5	23,5	750	
0908 8614	14	9,5	49,0	114,0	26,5	26,0	1100	

Fine ropes

Application areas

Materials

DoTec

DoTec, a fine rope system for precise draw and tension technology:

Used to control and transfer forces with fully assembled various end or interim pieces. Flexibly adjustable for all specific requirements. We have fine ropes in various constructions with fully assembled transfer elements in order to bring control from A to B or from C to D, for instance. The fine rope system is ready for installation. The fitter hardly has technical limits. With fine ropes, forces can be directed around corners without significant abrasion losses. Tensions losses are minimized thanks to the precise transfer.

The rope materials

The standard fine steel ropes are made from galvanized drawn wires. The precious steel-products generally made by Dolezych in material no. 1.4401 (AISI316) or material no. 1.4301 (AISI 304). Additional non-rusting qualities, e.g. 1.4571 (AISI 320) can be made on request. The ropes are available with various coating materials (see table on page 244). We are flexible and can adjust to specific needs. Contact our special adviser for all construction matters.

What rope design?

Daily practice has yielded a tried and tested standard rope programme in strengths from approx. 0.1 to 3 mm in various rope constructions. The wall strength for coatings should, depending on the material, be at least 0.15 mm, but not exceeding 2 mm. If ropes or strands are requested according to LN norm or Mil-W-83420 D specifications with different thicknesses or tolerances, please enquire. If different strengths or tolerances are desired, please request more info.

Typical applications

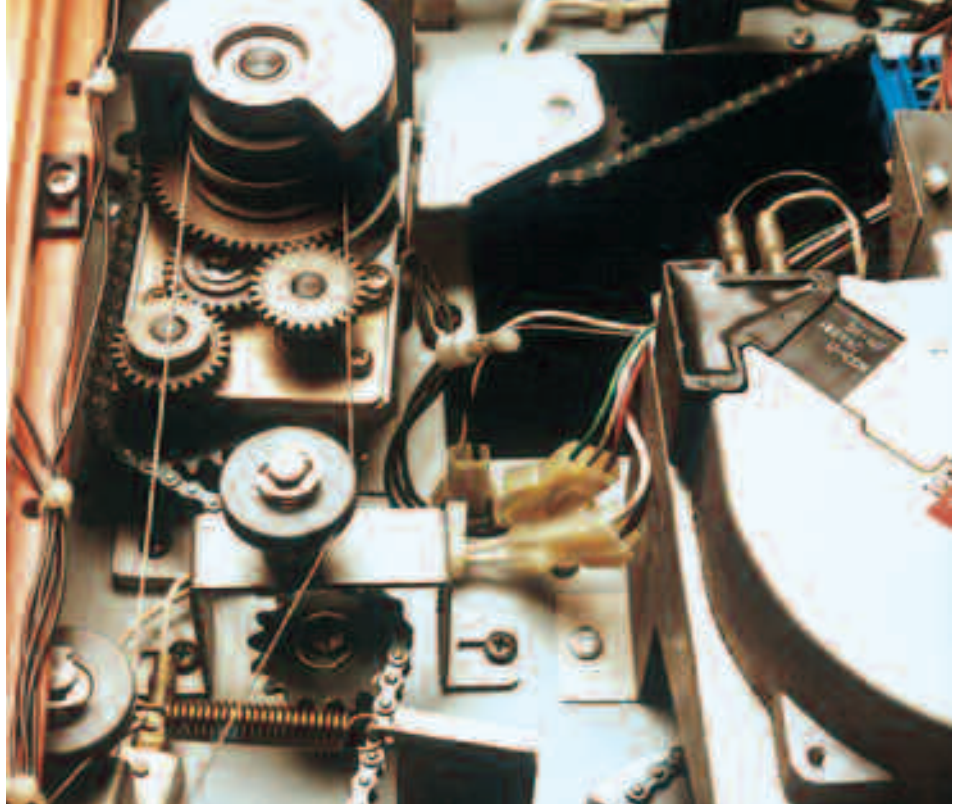
We recommend these models as tension and fastening ropes:

DoTec 107

- Bowden cables
- Application hoists
- Catheters

DoTec 119

- Electrodes
- Bowden cable
- Coupling, break hoists
- Surgical seam material
- Two-wheel, car industry



The models are suitable for dynamic usage:

DoTec 707

- Hammer signals, cover, break hoists
- Window hoists in general
- Blind ropes
- Automotive industry

DoTec 719

- Electric window regulator
- Printers and plotters
- Stable cleaning systems
- Automotive industry

Criteria for selection

The lay direction of all strands and ropes is generally right hand lay (Z), we also manufacture left hand lay on request (S). For ropes, the standard stranding is right hand lay in accordance with regular lay (sZ) (see p. 250 et seq.). For redirections, sufficiently dimensioned sheave diameters must be ensured. 16 x d (rope diameter) should be the absolute minimum.

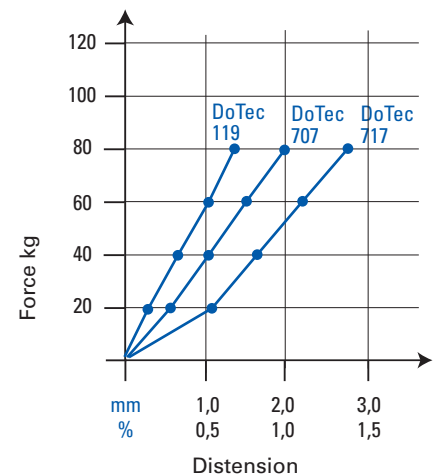
25-50 x d can significantly increase the endurance. Any dirt in the groove reduces the endurance.

The elongation of a rope occurs in 2 levels. The 1st level is a so-called structure elongation, the 2nd the elastic elongation. The structural elongation occurs in every new rope. A sitting process can be referred to, where the rope components, such as strands and wires, take their ideal position in the rope or strand arrangement. A unique and enduring elongation is the result.

The elastic elongation depends on the load applied. It reverts to 0 within the elastic range after unloading. The elastic range ends at about 50-60% of the calculative breaking force, i.e. if the rope load exceeds this, the expansion limit is exceeded so that there is a deformation. Structure elongation and elastic elongation depend on the rope construction, the core (fibre or steel core) and the slope. The structure elongation ranges from 0.25-0.5%, the elastic elongation from 0.25-0.75% (based on experience).

Tension and bending changes result in the wear and tear of fine ropes. The endurance can be positively influenced, e.g. through sufficiently dimensioned roll diameters or the selection of a suitable coating.

Fine ropes elongation comparison Example 1.5 mm diameter)







Fine ropes, galvanized


DoTec




**We make additional
rope end connections
as per your
requirements!**

DoTec 107 				
Item no.	Rope-Nom. ø mm	Calculated break. force N	Length-weight kg/m	Price a 100 Meter
0100 0023	0,21	47,68	0,21	Price on enquiry
0100 0033	0,30	97,31	0,43	
0100 0043	0,39	164,46	0,73	
0100 0053	0,51	181,23	1,26	
0100 0063	0,60	369,24	1,74	
0100 0073	0,69	514,77	2,30	
0100 0803	0,81	709,49	3,17	
0100 0903	0,90	875,80	3,91	

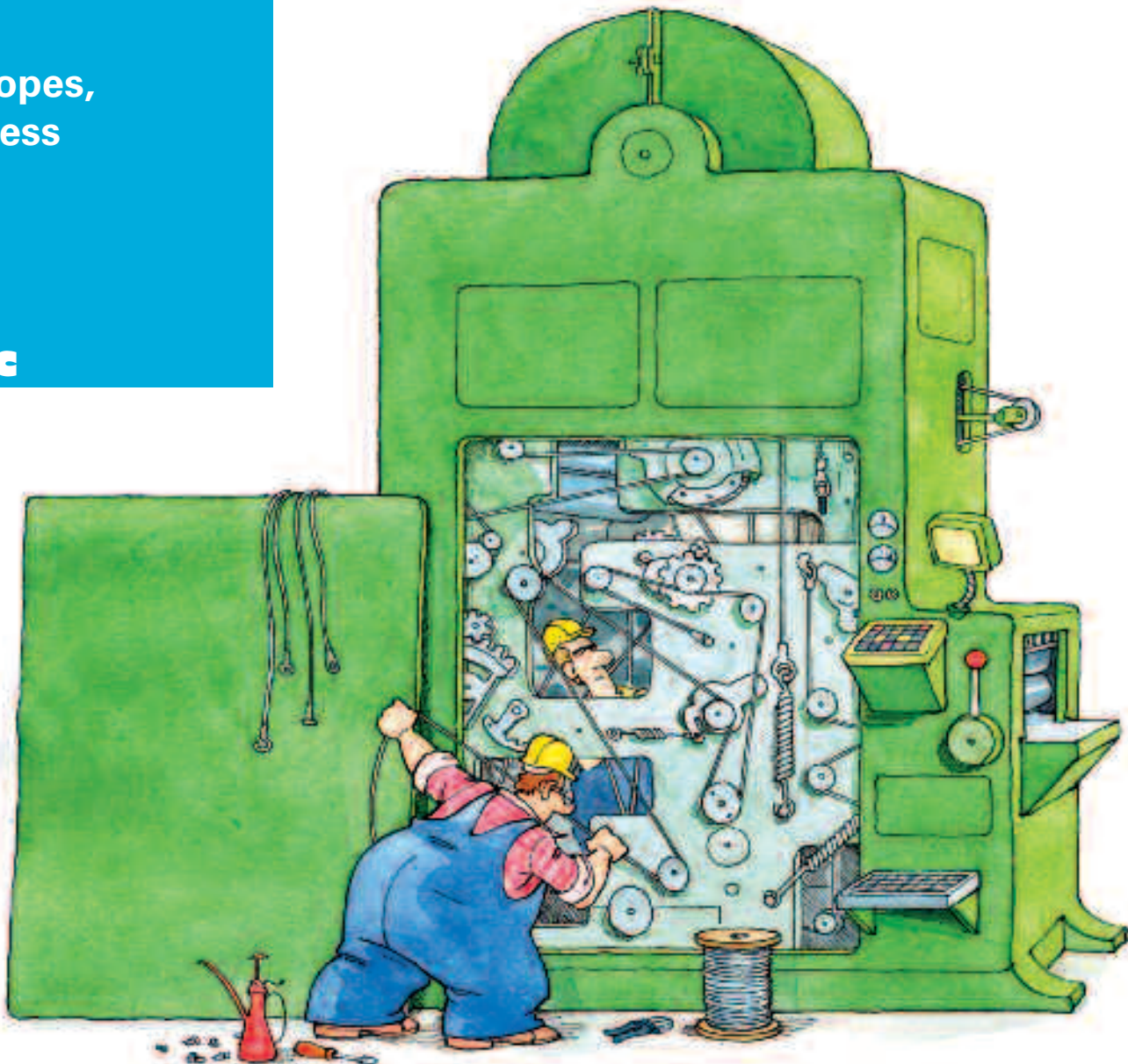
DoTec 707 				
Item no.	Rope-Nom. ø mm	Calculated break. force N	Length-weight kg/m	Price a 100 Meter
0131 0063	0,63	333,78	1,47	Price on enquiry
0131 0083	0,81	551,75	2,52	
0131 0103	1,00	824,22	3,68	
0131 0123	1,26	1335,10	5,96	
0131 0153	1,50	1968,60	8,79	
0131 0183	1,80	2724,70	12,16	
0131 0203	2,00	3296,89	14,71	
0131 0223	2,25	4257,35	19,00	
0131 0253	2,50	5340,42	23,84	

DoTec 719 				
Item no.	Rope-Nom. ø mm	Calculated Load N	Length-weight kg/m	Price per 100 m
0132 0103	1,05	905,96	4,02	Price on enquiry
0132 0123	1,20	1183,30	5,25	
0132 0153	1,50	1846,91	8,19	
0132 0203	2,00	3623,86	16,17	
0132 0253	2,50	5343,34	23,85	
0132 0303	3,00	7395,62	33,01	

DoTec 119 				
Item no.	Rope-Nom. ø mm	Calculated break. force N	Length-weight kg/m	Price per 100 meter
0175 0033	0,35	129,42	0,58	Price on enquiry
0175 0053	0,50	264,13	1,17	
0175 0063	0,60	390,35	1,70	
0175 0073	0,70	517,69	2,31	
0175 0083	0,80	676,17	3,02	
0175 0093	0,90	855,78	3,82	
0175 0103	1,00	1055,52	4,72	
0175 0123	1,25	1650,81	7,37	
0175 0153	1,50	2377,16	10,61	

Fine ropes, Stainless steel

DoTec



Fine Ropes, made from Stainless Steel Material No. 1.4401 (AISI 316)

DoTec 107 E



Item no.	Rope-Nom. ϕ mm	Calculated break.force N	Length-weight kg/m	Price per 100 m
0407 0021	0,21	42,29	0,21	Price on enquiry
0407 0031	0,30	86,31	0,43	
0407 0041	0,39	145,88	0,73	
0407 0051	0,51	249,45	1,26	
0407 0061	0,60	345,26	1,74	
0407 0071	0,69	456,60	2,30	
0407 0081	0,81	629,24	3,17	
0407 0091	0,90	776,84	3,91	

DoTec 707 E

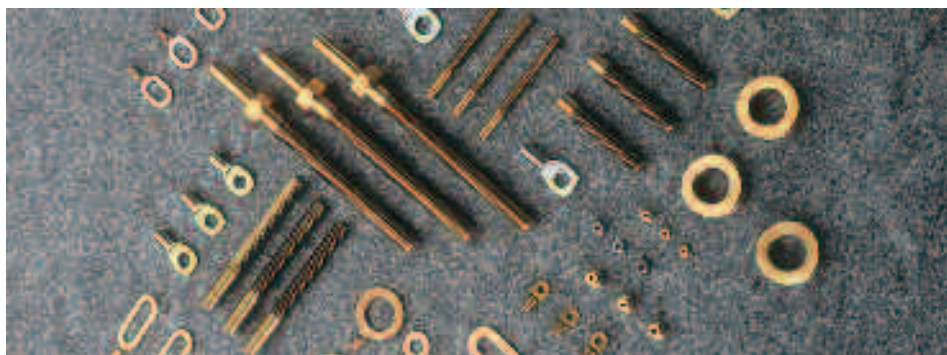


Item no.	Rope-Nom. ϕ mm	Calculated break.force N	Length-weight kg/m	Price per 100 meter
0407 0067	0,63	296,06	1,47	Price on enquiry
0407 0087	0,81	489,41	2,52	
0407 0107	1,00	731,09	3,68	
0407 0127	1,26	1184,24	5,96	
0407 0157	1,50	1746,16	8,79	
0407 0187	1,80	2416,82	12,16	
0407 0207	2,00	2924,36	14,71	
0407 0227	2,25	3776,29	19,00	
0407 0257	2,50	4736,98	23,84	

DoTec 719 E



Item no.	Rope-Nom. ϕ mm	Calculated break.force N	Length-weight kg/m	Price per 100 m meter
0419 0107	1,00	803,59	4,02	Price on enquiry
0419 0127	1,20	1049,59	5,25	
0419 0157	1,50	1638,22	8,19	
0419 0207	2,00	3214,38	16,17	
0419 0257	2,50	4739,57	23,85	
0419 0307	3,00	6559,96	33,01	



DoTec 119 E



Item no.	Rope-Nom. ϕ mm	Calculated break.force N	Length-weight kg/m	Price per 100 meter
0419 0031	0,35	114,80	0,58	Price on enquiry
0419 0051	0,50	234,28	1,17	
0419 0061	0,60	346,24	1,70	
0419 0071	0,70	459,19	2,31	
0419 0081	0,80	599,77	3,02	
0419 0091	0,90	759,08	3,82	
0419 0101	1,00	936,25	4,72	
0419 0121	1,25	1464,28	7,37	
0419 0151	1,50	2108,55	10,61	



Wire rope grips

Reels

DoTec

Fine ropes – only the very best...

DoTec fine rope systems reliably meet all requirements. They are suitable for small casings as used in the electronics industry or for medical equipment. They control, tighten, decelerate, etc.

Simplex Clamp

Item no. galvanized	For rope- ø mm	Price each
0340 3025	2	on enquiry
0340 3035	3	on enquiry

Item no. st. steel 1.4401	For Rope- ø mm	Price each
1440 2002	2	on enquiry
1440 2003	3	on enquiry



Egg-Shaped Wire Rope Clamp

Item no. galvanized	For rope- ø mm	Price each
0340 5020	2	on enquiry
0340 5030	3	on enquiry



Wire Rope Grips

Item no. galvanized	For rope- ø mm	Price each
0340 2030	3	o.e.

Item no. st. steel 1.4401	For rope- ø mm	Price each
1440 1002	2	on enquiry
1440 1003	3	on enquiry



Duplex Clamps

Item no. galvanized	For rope- ø mm	Price each
0340 4025	2	on enquiry
0340 4035	3	on enquiry

Item no. st. steel 1.4401	For Rope- ø mm	Price each
1440 3002	2	on enquiry
1440 3003	3	on enquiry



Copper Clamp

Item no.	For rope- ø mm	Price/ piece
4310 9020	1,2-1,6	o.e.
4310 9025	1,7-2,1	o.e.
4310 9030	2,2-2,6	o.e.
4310 9035	2,7-3,1	o.e.

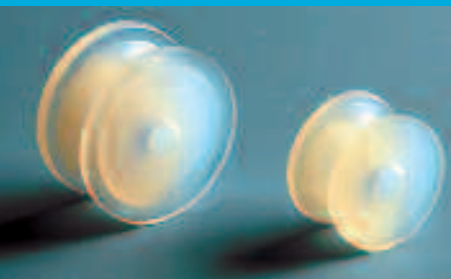


Aluminium Clamp

Item no.	Clamp no.	Price per 100 pc.
4310 1010	1	Price on enquiry
4310 1015	1,5	
4310 1020	2	
4310 1025	2,5	
4310 1030	3	
4310 1035	3,5	



DoRoll 1, Polyamide with bearing



Item no.	Roll ø mm	Grooves width mm	Grooves depth mm	Boring for bolts ø mm	Roll width mm	Price/ piece
0374 0015	5	6	3	4	9	o.e.
0374 0020	20	6	4	5	10	o.e.

DoRoll 2, Polyamide without bearing



Item no.	Roll ø mm	Grooves width mm	Grooves depth mm	Boring for bolts ø mm	Roll width mm	Price/ piece
0374 5005	5	0,5	0,25	1,5	2	on enquiry
0374 5010	10	1	0,5	2	3	
0374 5015	15	2	1	2,5	3	
0374 5020	20	3	1,5	4	5	
0374 5025	25	3	2	4	5	
0374 5030	30	4	4	5	6	

DoRoll 3, made from ball-bearing steel with bearing



Please inquire!

Fully assembled Fine Ropes

DoTec



Fully assembled fine ropes

We assemble galvanized fine ropes and fine ropes from stainless steel with various end fittings to your requirements. You can find a selection of standard combinations on this double page. But given the breadth of possible applications, only a small range can be represented here. Please contact our specialist advisers if you require special end connections for fine rope use.

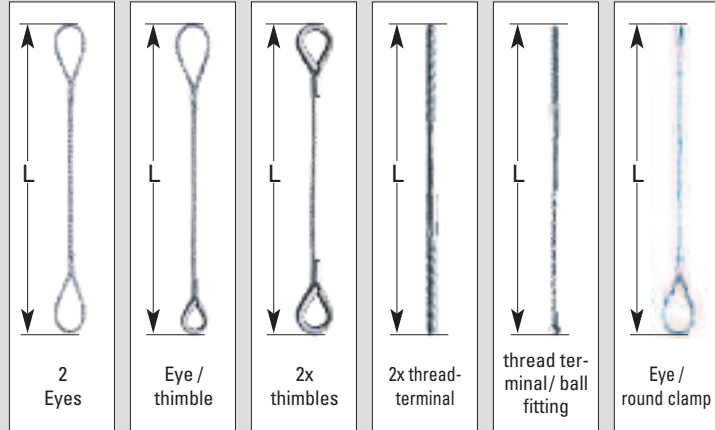


Other end fitting variants, such as snap hooks or eye bolts are available.

Please request more info!

Fully assembled Fine Steel Ropes

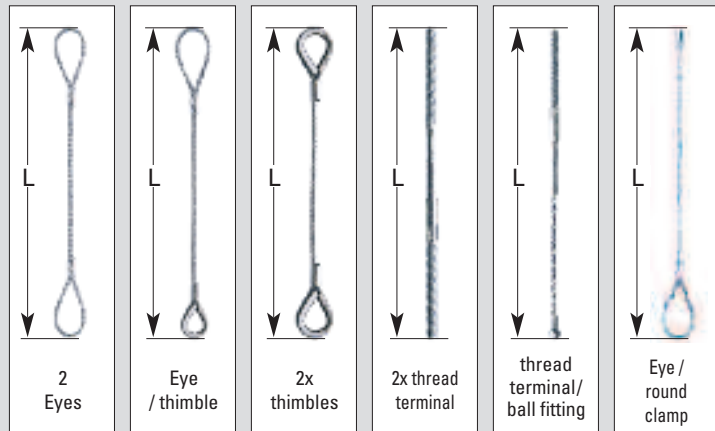
Stainless Steel



Rope-Nom. ø mm	Price per 1 m effective length on enquiry						Price Rope per 50 cm
	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	
1	2401 0101	2461 0101	2402 0101	2411 0101	2463 0101	2464 0101	Price on enquiry
2	2401 0201	2461 0201	2402 0201	2411 0201	2463 0201	2464 0201	
3	2401 0301	2461 0301	2402 0301	2411 0301	2463 0301	2464 0301	
4	2401 0401	2461 0401	2402 0401	2411 0401	2463 0401	2464 0401	
5	2401 0501	2461 0501	2402 0501	2411 0501	2463 0501	2464 0501	
6	2401 0601	2461 0601	2402 0601	2411 0601	2463 0601	2464 0601	

Fully assembled Fine Steel Wire Ropes

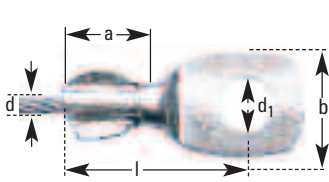
Galvanized



Rope-nom. ø mm	Price per 1 m eff.length on enquiry						Price Rope each 50 cm
	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	
1	0203 0101	1261 0101	0204 0101	0262 0101	0263 0101	1264 0101	Price on enquiry
2	0203 0201	1261 0201	0204 0201	0262 0201	0263 0201	1264 0201	
3	0203 0301	1261 0301	0204 0301	0262 0301	0263 0301	1264 0301	
4	0203 0401	1261 0401	0204 0401	0262 0401	0263 0401	1264 0401	
5	0203 0501	1261 0501	0204 0501	0262 0501	0263 0501	1264 0501	
6	0203 0601	1261 0601	0204 0601	0262 0601	0263 0601	1264 0601	



Pipe ring connector



Material E-Cu Pipe according to DIN 40 500, surface galvanized

Item no.	drill hole M	d	d ₁	b	a	l
0386 9999	4	1,4	4,3	8,5	6,0	14
0399 0702	5	2,4	5,3	10,0	6,5	16
0399 0716	6	3,5	6,4	11,0	8,0	22
0399 0223	8	4,3	8,4	15,0	10,0	25

*all length details in unpressed condition

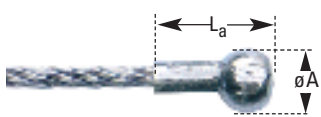
Thread terminal



Item no.	Thread	Direction	Rope-Ø in mm	SW in mm	L ₁ in mm	L ₂ in mm	L ₃ in mm
1470 0104	M 4	rechts	1,0	–	35	10	20
1470 1001	M 5	rechts	2,0	4	82	23	38
1470 1003	M 6	rechts	3,0	4	100	38	48
1470 1004	M 8	rechts	4,0	5	117	45	57
1470 1005	M 10	rechts	5,0	6	130	51	63

*all length details in unpressed condition

Ball fitting



from AISI 303. Norm MS 20664 like DIN EN 2362

Item no.	Ø ₁ in mm	Ø ₂ in mm	La in mm	Øa in mm	Ø wire rope in mm
4320 2015	1,7	3,3	6,8	4,8	1
4320 2025	2,6	4,2	9,8	7,2	2
4320 2030	3,5	5,7	12,7	8,9	3
4320 2040	4,3	6,5	15,6	10,8	4
4320 2050	5,1	7,5	18,5	12,5	5

*all length details in unpressed condition

Stainless steel thimbles

Material 1.4401 V-A. polished

Item no.	Groove width in mm	Clear width in mm	Clear length in mm
1430 1002	2	7	10
1430 1003	3	9	15
1430 1004	4	11	18
1430 1005	5	14	20



Thimble galvanized

5889 B

Item no.	Groove width in mm	Clear width in mm	Clear length in mm
0330 2003	3	12	19
0330 2004	4	13	21
0330 2005	5	14	23



Stainless cylindrical fitting

Item no.	Rope-Ø in mm	A (Ø) in mm	B (Length) in mm
1490 2020	2	4	15
1490 2030	3	5	20
1490 2040	4	6	30
1490 2050	5	10	40

*all length details in unpressed condition



Cylindrical fitting, galvanized

Item no.	Rope-Ø in mm	A (Ø) in mm	B (Length) in mm
4310 4020	2	4	7
4310 4030	3	6	11
4310 4040	4	8	14
4310 4052	5	10	18

*all length details in unpressed condition



We make additional rope end connections as per your requirements!

Rope accessories Hooks

DoDra



Eye Hook Grade 80, OSE



Item no.	Nom. size	Load cap. t	opening width mm	Eye Ø in mm	Price each
0909 0106	6	1,12	20	20	Price on enquiry
0909 0108	8	2,00	24	25	
0909 0110	10	3,15	29	34	
0909 0113	13	5,30	35	42	
0909 0116	16	8,00	44	52	
0909 0120	20	12,50	54	62	

SIKA – Container Hook, EN 1677-2, Grade 50



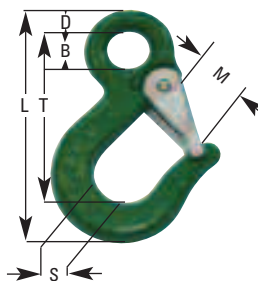
Item no.	Load cap. t	opening width mm	Eye Ø in mm	Price each
0310 5005	0,50	20	25	Price on enquiry
0310 5008	0,80	22	26	
0310 5010	1,12	24	27	
0310 5015	1,50	28	28	
0310 5020	2,00	29	32	
0310 5027	2,70	34	34	
0310 5030	3,15	34	34	
0310 5040	4,00	40	40	
0310 5050	5,30	45	50	
0310 5063	6,30	50	52	
0310 5075	8,00	57	54	
0310 5100	10,00	61	60	

Eye Hook 7541



Item no.	Nom. sizes	Load cap. t	opening width mm	Eye Ø mm	Price each
0311 2005	17	0,50	18	18	Price on enquiry
0311 2010	20	1,00	25	25	
0311 2012	21	1,25	28	28	
0311 2016	22	1,60	31	31	
0311 2020	23	2,00	35	35	
0311 2025	24	2,50	40	40	
0311 2030	25	3,20	45	45	
0311 2040	26	4,00	50	50	
0311 2050	27	5,00	56	56	
0311 2063	28	6,30	63	63	
0311 2080	29	8,00	71	71	
0311 2099	30	10,00	80	80	

SIKA Hook, Type SPS, narrow version



Item no.	Nom. size	No.	Load capacity kg	b	d	Sizes mm				Weight approx. kg	Price each
						l	m	s	t		
0310 8005	0,5	17	500	24	12	118	20	12	92	0,3	Price on enquiry
0310 8010	1,0	20	1000	24	12	124	20	18	93	0,5	
0310 8016	1,6	22	1600	26	13	140	24	18	105	0,7	
0310 8020	2,0	23	2000	26	13	141	24	18	107	0,7	



Note:
Hooks without any safety snap can endanger the slinger, as they can unhook from the unstressed rope by accident!

Coil Transport Hook with PU-Coating

Item no.	Nom. size	Load cap. t	opening width mm	Eye Ø in mm	Price each
0311 7705	13	0,5	20	13	Price on enquiry
0311 7710	17	1,0	25	17	
0311 7720	21	2,0	30	21	
0311 7730	23	3,0	40	23	
0311 7740	28	4,0	50	28	
0311 7750	31	5,0	60	31	



S-Hook High Tensile, open, EN 1677-4



Item no.	Load cap. kg	opening width mm	Size mm	Price each
0311 6002	200	25	10 x 80	Price on enquiry
0311 6003	300	30	13 x 100	
0311 6005	500	40	16 x 130	
0311 6007	750	50	18 x 160	
0311 6010	1000	55	20 x 180	
0311 6012	1250	60	22 x 200	
0311 6015	1500	65	26 x 220	
0311 6020	2000	80	32 x 260	
0311 6030	3000	95	36 x 320	
0311 6040	4000	110	40 x 360	
0311 6050	5000	120	45 x 400	
0311 6060	6000	135	50 x 450	

S-Hook High Tensile, closed eye (not welded), EN 1677-4



Item no.	Load capac. kg	opening width mm	Size mm	Price each
0311 6902	200	25	10 x 80	Price on enquiry
0311 6903	300	30	13 x 100	
0311 6905	500	40	16 x 130	
0311 6907	750	50	18 x 160	
0311 6910	1000	55	20 x 180	
0311 6912	1250	60	22 x 200	
0311 6915	1500	65	26 x 220	
0311 6920	2000	80	32 x 260	
0311 6930	3000	95	36 x 320	
0311 6940	4000	110	40 x 360	
0311 6950	5000	120	45 x 400	
0311 6960	6000	135	50 x 450	

Pine line hook

Item no.	Load capacity kg	opening width mm	Price each
0312 5000	2000	70	on enquiry



Container Hook YOW



Item no.	Nom. sizes	Sizes in mm						Weight approx. kg	Price each
		K	P	A	D	T	H		
0905 4607	7/8-8	123	61	24	12	19	30	0,7	Price on enquiry
0905 4610	10-8	150	74	32	15	24	34	1,2	
0905 4613	13-8	180	88	40	19	32	42	2,3	
0905 4616	16-8	215	98	50	25	41	50	4,0	
0905 4619	18/20-8	248	112	60	26	45	57	6,0	

Safety Eye Hooks YOZ, self-locking



Item no.	Nom. size	Sizes in mm						Weight approx. kg	Price each
		K	P	A	D	T	H		
0908 0206	6-8	110	29	21	10	15	20	0,5	Price on enquiry
0908 0208	7/8-8	136	34	25	11	20	24	0,8	
0908 0210	10-8	167	45	32	13	26	30	1,5	
0908 0213	13-8	207	54	40	16	30	38	2,8	
0908 0216	16-8	252	62	52	21	40	48	5,6	
0908 0219	18/20-8	282	68	64	23	48	57	7,9	
0908 0222	22-8	319	82	70	24	49	63	11,2	
0908 0226	26-8	343	99	80	25	56	69	14,5	

Rope accessories

Thimbles

Snap Hooks

DoDra



According to European standards requirements, steel thimbles, such as form 6899 B, should be used in the sling area only. For machine applications the use of form steel thimbles in accordance with DIN 3090 is recommended.

Edge Protection



Item no.	Nom. size	max. Rope- ϕ mm	Price each
0390 1025	S I	25	Price on enquiry
0390 1050	S II	50	
0390 1070	S III	70	

Galvanized Thimbles 6899 B



Item no.	Nom. sizes	Groove width mm	L. width x L. length mm	Price each
0330 2003	2,5	3	12 x 19	Price on enquiry
0330 2004	3,5	4	13 x 21	
0330 2005	4,0	5	13 x 23	
0330 2006	5,0	6	16 x 25	
0330 2008	7,0	8	20 x 32	
0330 2010	9,0	10	24 x 38	
0330 2012	11,5	12	28 x 45	
0330 2014	13,0	14	32 x 51	
0330 2016	15,0	16	36 x 58	
0330 2018	16,0	18	40 x 65	
0330 2020	18,0	20	45 x 72	

Galvanized Thimbles DIN 65457

Item no.	Nom. sizes	Groove width mm	L. width x L. length mm	Price each
0330 1020	1,8	2	6 x 16	Price on enquiry
0330 1030	2,5	3	10 x 21,5	
0330 1040	3,5	4	12 x 26,5	
0330 1050	4,0	5	13 x 28,5	
0330 1060	5,0	6	14 x 30	
0330 1070	6,0	7	15 x 33	
0330 1080	7,0	8	16 x 35	
0330 1090	8,0	9	18 x 39	
0330 1100	9,0	10	20 x 43	
0330 1110	10,0	11	22 x 47,5	

Galvanized Thimbles DIN 3090, EN 13411-1



Item no.	Nom. sizes	Groove width mm	L. width x L. length mm	Price each
0330 3005	4	5	10 x 20	Price on enquiry
0330 3007	6	7	15 x 30	
0330 3009	8	8	20 x 40	
0330 3011	10	11	25 x 50	
0330 3013	12	13	30 x 60	
0330 3016	14	16	35 x 70	
0330 3018	16	18	40 x 80	
0330 3020	18	20	45 x 90	



Galvanized Special Thimbles with extra large width



Item no.	Nom. sizes	Groove width mm	L. width x L. length mm	Price each
0330 8408	8	8	25 x 45	Price on enquiry
0330 8010	10	10	35 x 55	
0330 8312	12	12	50 x 80	
0330 8412	12	12	60 x 95	
0330 8414	14	14	50 x 80	
0330 8416	16	16	60 x 97	
0330 8218	18	18	50 x 75	
0330 8318	18	18	60 x 90	

Solid Thimbles DIN 3091



Nom. size = max. rope- ϕ	Length mm	Drilling ϕ mm row/bored*	Strength mm	Item no. Pipe drilling	Price each	Item no. bored	Price each
8	56	14 - 20	15,0	0330 4108	Price on enquiry	0330 4908	Price on enquiry
10	70	18 - 25	17,5	0330 4110		0330 4910	
12	84	21 - 30	20,0	0330 4112		0330 4912	
14	98	25 - 35	23,5	0330 4114		0330 4914	
16	110	28 - 40	26,0	0330 4116		0330 4916	
18	130	31 - 45	28,5	0330 4118		0330 4918	
20	140	35 - 50	31,0	0330 4120		0330 4920	
22	150	38 - 55	33,5	0330 4122		0330 4922	
24	170	41 - 60	36,0	0330 4124		0330 4924	
26	180	44 - 65	39,5	0330 4126		0330 4926	
28	200	47 - 70	42,0	0330 4128	0330 4928		
32	220	53 - 80	47,0	0330 4132	0330 4932		
36	250	59 - 90	53,0	0330 4136	0330 4936		
40	280	65 - 100	58,0	0330 4140	0330 4940		
44	310	70 - 110	63,0	0330 4144	0330 4944		

* the smallest drilling ϕ stated corresponds to the raw dimension (unprocessed)

Snap Hook with thimble



Item no.	Load cap. kg	opening width mm	Size mm	Price each
0311 3061	120	8	60 x 6	Price on enquiry
0311 3071	180	8	70 x 7	
0311 3081	230	9	80 x 8	
0311 3091	250	10	90 x 9	
0311 3101	350	11	100 x 10	
0311 3121	450	16	120 x 11	

Snap Hook with safety nut and thimble



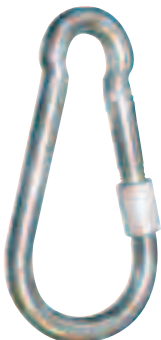
Item no.	Load cap. kg	opening width mm	Size mm	Price each
0311 4061	120	8	60 x 6	Price on enquiry
0311 4071	180	8	70 x 7	
0311 4081	230	9	80 x 8	
0311 4091	250	10	90 x 9	
0311 4101	350	11	100 x 10	
0311 4121	450	11	120 x 11	

Snap Hook, galvanized



Item no.	Load cap. kg	opening width mm	Size mm	Price each
0311 3040	100	8	40 x 4	Price on enquiry
0311 3050	100	8	50 x 5	
0311 3060	120	8	60 x 6	
0311 3070	180	8	70 x 7	
0311 3080	230	9	80 x 8	
0311 3090	250	10	90 x 9	
0311 3100	350	11	100 x 10	
0311 3120	450	16	120 x 11	
0311 3140	510	19	140 x 12	
0311 3160	600	25	160 x 13	
0311 3100	650	35	180 x 14	

Galvanized Snap Hooks with safety nut



Item no.	Load cap. kg	opening width mm	Size mm	Price each
0311 4060	120	8	60 x 6	Price on enquiry
0311 4070	180	8	70 x 7	
0311 4080	230	9	80 x 8	
0311 4090	250	10	90 x 9	
0311 4100	350	11	100 x 10	
0311 4120	450	16	120 x 11	
0311 4140	510	19	140 x 12	
0311 4160	600	25	160 x 13	
0311 4180	650	35	180 x 14	

Aluminum snap Hook 229

Item no.	Load capacity t	opening width mm	Price each
0311 5135	0,4	19	on enquiry



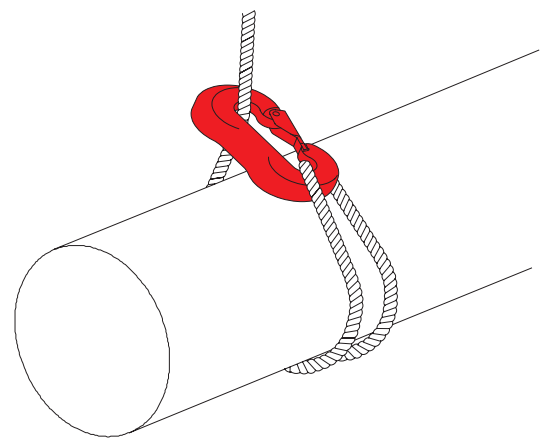
Tow Hook

Item no.	breaking load t	opening width mm	Price each
0635 0005	2,5	18	on enquiry

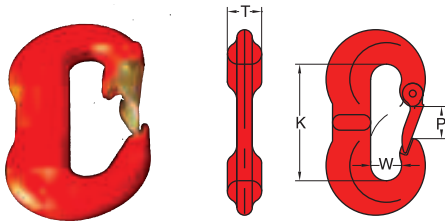


Rope accessories

DoDra

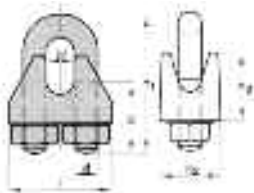


Choker Hooks for Wire Ropes



Item no.	Load capacity in t	For Rope nom. diameter in mm	Sizes in mm				Weight approx. kg	Price each
			K	P	W	T		
0982 0404	0,5	8	72	19	18	12	0,2	Price on enquiry
0982 0410	1,0	13	72	19	18	20	0,4	
0982 0420	2,0	16	89	19	26	28	0,8	
0982 0440	4,0	20	10	25	34	32	1,7	

Wire rope clips according to DIN EN 13411-5, galvanized. For Rope connections in safety-relevant applications and uses*



Item no.	Rope-Ø mm	Clamp size Thread	No. of Clips	Torque needed acc. DIN Nm	Price each
0340 1050	5,0	M 5	3	2,0	Price on enquiry
0340 1065	6,5	M 6	3	3,5	
0340 1080	8,0	M 8	4	6,0	
0340 1100	10,0	M 10	4	9,0	
0340 1130	13,0	M 12	4	33,0	
0340 1160	16,0	M 14	4	49,0	
0340 1190	19,0	M 14	4	67,7	
0340 1220	22,0	M 16	5	107,0	
0340 1260	26,0	M 20	5	197,0	
0340 1330	30,0	M 20	6	212,0	
0340 1340	34,0	M 22	6	296,0	
0340 1400	40,0	M 24	6	363,0	

Mounting note:
Stirrups are intended for use on the rope "dead" line – jaws are to be used on the carrying rope!

* **Please note:**
For rope connections of round strand wires with wire rope grips according to DIN EN 13411-5 the BG recommends:

1. Increase the number of wire rope clips x 2
2. According to the norm and subjected to nominal sizes up to 34 mm increase stated torque rate by 10 %

Wire rope grips are an auxiliary mounting tool to tighten steel wire ropes in a safe and gentle way.

Material: forged of steel with hardened and fluted steel jaws and tension springs.

Surface: galvanized, jaws bronzed, the new model comes with toothing.

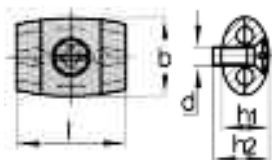
Use: open the jaws, insert rope and pull into mounting position, then fasten the rope and remove wire rope grips. Not to use as pulling or lifting eye!

Wire Rope Grips



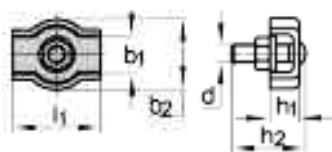
Item no.	Rope Ø mm	max. stress kg	Weight/ piece kg	Price each
0340 7004	1 - 4	500	0,25	Price on enquiry
0340 7008	3 - 8	1000	0,85	
0340 7010	5 - 10	1700	1,1	
0340 7016	8 - 16	3000	1,8	
0340 7026	12 - 26	3500	3,5	
0340 7038	20 - 38	4000	6,5	

Egg-Shaped Wire Rope Clamps



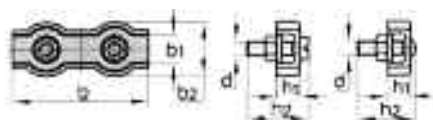
Item no.	Nom. size largest rope-Ø	b mm	d	h ₁ mm	h ₂ mm	l mm	Weight per 100 pieces kg	Price each
03405020	2	15	M 5	11	13	28	2,0	Price on enquiry
03405030	3	15	M 5	12	13	28	2,1	
03405040	4	20	M 6	14	18	34	3,9	
03405050	5	21	M 6	15	18	34	4,0	
03405060	6	25	M 6	15	18	35	4,8	

Simplex Clamps



Item no.	Nom. size largest rope-Ø	b ₁ mm	b ₂ mm	d	h ₁ mm	h ₂ mm	l ₁ mm	Piece per VE	Weight per 100 piece kg	Price each
03403025	2	4	12	M 4	5	14	15	100	0,46	Price on enquiry
03403035	3	6	14	M 4	7	14	17	100	0,72	
03403045	4	8	18	M 5	7	18	20	100	1,27	
03403055	5	10	20	M 5	8	18	25	100	1,46	
03403065	6	12	24	M 6	9	23	30	100	2,52	
03403085	8	17	30	M 8	13	25	37	50	5,42	

Duplex Clamps



NG 10 NG 2-B

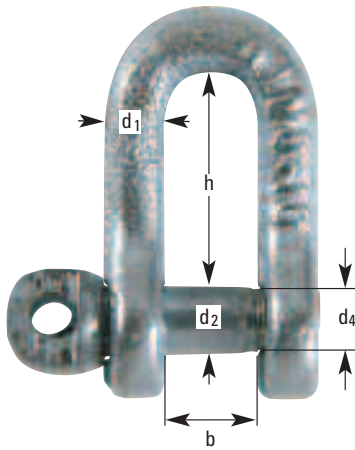
Item no.	Nom. size largest rope-Ø	b ₁ mm	b ₂ mm	d	h ₁ mm	h ₂ mm	l ₂ mm	Piece per VE	Weight per 100 piece kg	Price each
03404025	2	4	12	M 4	5	14	30	100	0,97	Price on enquiry
03404035	3	6	14	M 4	7	14	35	100	1,41	
03404045	4	8	18	M 5	7	18	40	100	2,45	
03404055	5	10	20	M 5	8	18	50	100	2,91	
03404065	6	12	24	M 6	9	23	60	50	5,00	
03404085	8	17	30	M 8	13	25	75	50	10,63	
03404110	10	21	35	M 10	16	32	95	50	17,13	

Rope accessories Shackles

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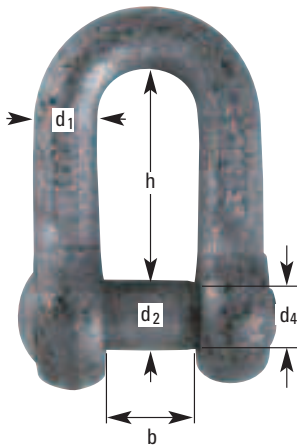
Shackle, galvanized in style of DIN 82101, Form A (with eye bolt)



Item no.	Load cap. t	d ₁ mm	d ₂ mm	d ₃ mm	d ₄ mm	d ₆ mm	b mm	h mm	Weight/Piece kg	Price each
0320 2001	0,10	4	5	10	M 5	5	7	15,5	0,013	
0320 2002	0,16	5	6	12	M 6	6	8	18,0	0,024	
0320 2003	0,25	7	8	15	M 8	8	11	24,0	0,045	
0320 2004	0,40	8	10	20	M 10	10	14	30,0	0,090	
0320 2006	0,63	10	12	24	M 12	12	17	36,0	0,170	
0320 2010	1,00	13	16	32	M 16	15	21	49,0	0,360	
0320 2016	1,60	17	20	40	M 20	19	27	61,0	0,750	
0320 2020	2,00	19	22	44	M 22	21	30	67,0	1,000	
0320 2025	2,50	21	24	48	M 24	23	33	73,0	1,280	
0320 2030	3,15	24	27	54	M 27	26	38	83,5	1,800	
0320 2040	4,00	27	30	60	M 30	29	42	91,0	2,400	
0320 2050	5,00	30	36	72	M 36	33	47	111,0	3,900	
0320 2060	6,30	34	39	78	M 39	37	53	119,5	5,300	
0320 2080	8,00	38	45	90	M 45	41	60	139,5	7,900	
0320 2100	10,00	42	48	96	M 48	45	66	147,0	10,00	
0320 2120	12,50	47	52	104	M 52	50	73	158,0	13,00	
0320 2160	16,00	52	60	120	M 60	55	81	185,0	18,50	
0320 2200	20,00	58	68	136	M 68	61	90	211,0	27,20	

Price on enquiry

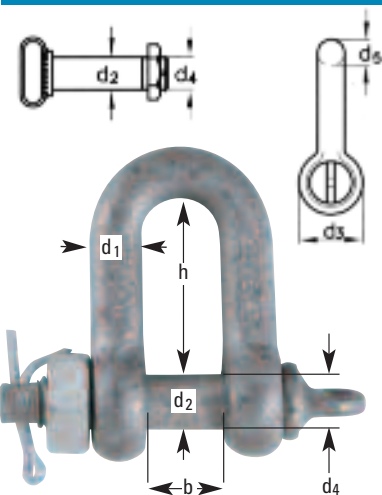
Shackle, galvanized in style of DIN 82101, Form B (with slotted bolt)



Item no.	Load cap. t	d ₁ mm	d ₂ mm	d ₃ mm	d ₄ mm	d ₆ mm	b mm	h mm	Weight/Piece kg	Price each
0320 4004	0,40	8	10	20	M 10	10	14	30,0	0,085	
0320 4006	0,63	10	12	24	M 12	12	17	36,0	0,160	
0320 4010	1,00	13	16	32	M 16	15	21	49,0	0,350	
0320 4016	1,60	17	20	40	M 20	19	27	61,0	0,730	
0320 4020	2,00	19	22	44	M 22	21	30	67,0	0,970	
0320 4025	2,50	21	24	48	M 24	23	33	73,0	1,280	
0320 4030	3,15	24	27	54	M 27	26	38	83,5	1,700	
0320 4040	4,00	27	30	60	M 30	29	42	91,0	2,300	
0320 4050	5,00	30	36	72	M 36	33	47	111,0	3,700	
0320 4060	6,30	34	39	78	M 39	37	53	119,5	5,100	
0320 4080	8,00	38	45	90	M 45	41	60	139,5	7,600	
0320 4100	10,00	42	48	96	M 48	45	66	147,0	9,700	
0320 4120	12,50	47	52	104	M 52	50	73	158,0	12,70	
0320 4160	16,00	52	60	120	M 60	55	81	185,0	18,10	
0320 4200	20,00	58	68	136	M 68	61	90	211,0	26,80	

Price on enquiry

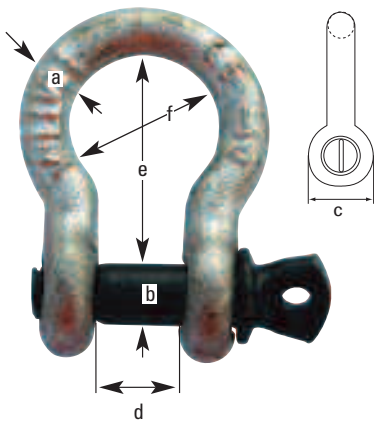
Shackle, galvanized in style of DIN 82101, Form C (with protruding bolt, nut and splint)



Item no.	Load cap. t	d ₁ mm	d ₂ mm	d ₃ mm	d ₄ mm	d ₆ mm	b mm	h mm	Weight/Piece kg	Price each
0320 6004	0,40	8	10	20	M 10	10	14	30,0	0,100	
0320 6006	0,63	10	12	24	M 12	12	17	36,0	0,180	
0320 6010	1,00	13	16	32	M 16	15	21	49,0	0,400	
0320 6016	1,60	17	20	40	M 20	19	27	61,0	0,810	
0320 6020	2,00	19	22	44	M 22	21	30	67,0	1,080	
0320 6025	2,50	21	24	48	M 24	23	33	73,0	1,420	
0320 6030	3,15	24	27	54	M 27	26	38	83,5	2,030	
0320 6040	4,00	27	30	60	M 30	29	42	91,0	2,700	
0320 6050	5,00	30	36	72	M 36	33	47	111,0	4,400	
0320 6060	6,30	34	39	78	M 39	37	53	119,5	5,900	
0320 6080	8,00	38	45	90	M 45	41	60	139,5	8,500	
0320 6100	10,00	42	48	96	M 48	45	66	147,0	10,80	
0320 6120	12,50	47	52	104	M 52	50	73	158,0	14,00	
0320 6160	16,00	52	60	120	M 60	55	81	185,0	19,30	
0320 6200	20,00	58	68	136	M 68	61	90	211,0	28,20	

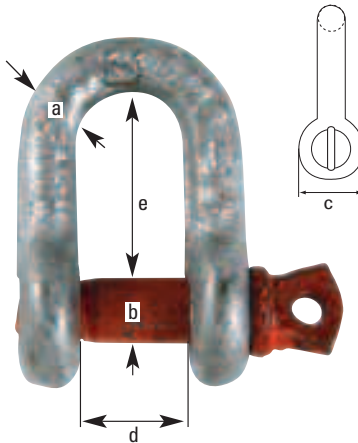
Price on enquiry

High Tensile Shackle, galvanized, Form A (bow) with eye bolt



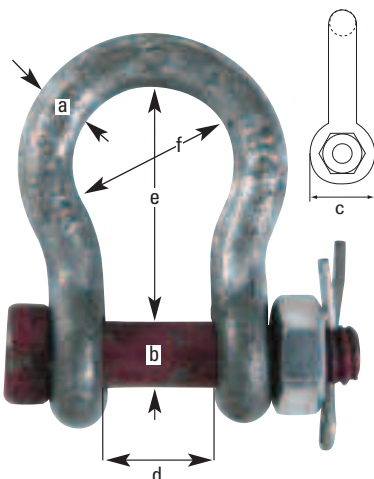
Item no.	Load capacity t	a mm	b mm	c mm	d mm	e mm	f mm	Weight/piece kg	Price each
0320 7003	0,33	5	6	14	9,5	22	15	0,02	Price on enquiry
0320 7005	0,5	6	8	16	12	29	20	0,05	
0320 7007	0,75	8	10	19	13,5	31	21	0,10	
0320 7010	1	10	11	23	17	37	26	0,14	
0320 7015	1,5	11	13	27	19	43	29	0,19	
0320 7020	2	13	16	30	20	48	33	0,36	
0320 7032	3,25	16	19	38	27	60	43	0,63	
0320 7047	4,75	19	22	46	32	71	50	1,01	
0320 7065	6,5	22	25	53	36	84	58	1,50	
0320 7085	8,5	25	28	61	43	95	68	2,21	
0320 7095	9,5	28	32	68	46	108	74	3,16	
0320 7120	12	32	35	76	51	119	82	4,31	
0320 7135	13,5	35	38	84	57	133	92	5,55	
0320 7170	17	38	42	92	60	146	98	7,43	
0320 7250	25	45	50	106	73	177	127	12,84	
0320 7350	35	50	57	111	83	197	138	18,15	
0320 7425	42,5	57	65	134	95	222	160	26,30	
0320 7500	55	65	70	145	105	260	180	37,60	

High Tensile Shackle, galvanized, Form B (even) with eye bolt



Item no.	Load capacity t	a mm	b mm	c mm	d mm	e mm	Weight/piece kg	Price each
0320 8003	0,33	5	6	14	9,5	27	0,02	Price on enquiry
0320 8006	0,50	6	8	16	7,12	22	0,05	
0320 8007	0,75	8	10	19	13,5	26	0,09	
0320 8010	1	10	11	23	17	32	0,14	
0320 8015	1,5	11	13	27	19	37	0,19	
0320 8020	2	13	16	30	20	41	0,32	
0320 8032	3,25	16	19	38	27	51	0,54	
0320 8047	4,75	19	22	46	32	60	0,87	
0320 8065	6,5	22	25	53	36	71	1,34	
0320 8085	8,5	25	28	61	43	81	1,43	
0320 8095	9,5	28	32	68	46	90	2,77	
0320 8120	12	32	35	76	51	100	3,72	
0320 8135	13,5	35	38	84	57	111	5,14	
0320 8170	17	38	42	92	60	122	6,85	
0320 8250	25	45	50	106	73	146	11,45	
0320 8350	35	50	57	111	85	171	16,86	
0320 8425	42,5	75	65	134	95	190	24,61	
0320 8550	55	65	70	65	105	203	32,65	

High Tensile Shackle, galvanized, Form C (bow) (with nut and splint)



Item no.	Load capacity t	a mm	b mm	c mm	d mm	e mm	f mm	Weight/piece kg	Price each
0320 9005	0,5	7	8	17	7	12	29	0,06	Price on enquiry
0320 9007	0,75	9	10	21	9	13,5	32	0,11	
0320 9010	1	10	11	23	10	17	36,5	1,16	
0320 9015	1,5	11	13	26	11	19	43	0,22	
0320 9020	2	13	16	30	20	48	33	0,42	
0320 9032	3,25	16	19	38	27	60	43	0,74	
0320 9047	4,75	19	22	46	32	71	50	1,18	
0320 9065	6,5	22	25	53	36	84	58	1,77	
0320 9085	8,5	25	28	61	43	95	68	2,58	
0320 9095	9,5	28	32	68	46	108	74	3,66	
0320 9120	12	32	35	76	51	110	82	4,91	
0320 9135	13,5	35	38	84	57	133	92	6,54	
0320 9170	17	38	42	92	60	146	98	8,19	
0320 9250	25	45	50	106	73	177	127	14,22	
0320 9350	35	50	57	111	83	197	138	19,85	
0320 9425	42,5	57	65	134	95	222	160	28,33	
0320 9500	55	65	70	145	105	260	180	39,59	
0320 9850	85	75	83	163	127	329	190	62,00	

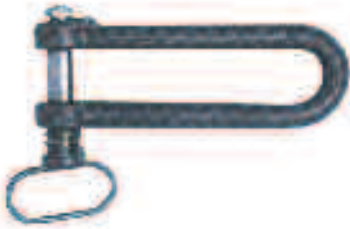
Rope accessories Shackles

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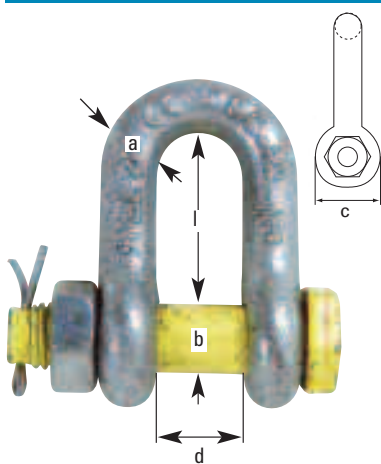


Shackle for steel sheet piles

Item no.	Load cap. t	Bolt Ø mm	Clear Width mm	Inner Height mm	Price each
0321 1025	2,5	25	50	250	Price on enquiry
0321 1030	3,0	30	50	250	
0321 1050	5,0	36	50	250	
0321 1100	10,0	50	110	400	

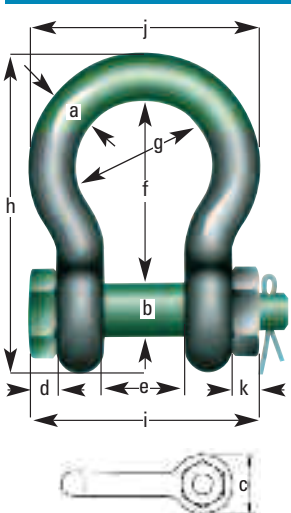


High Tensile Shackle, galvanized, Form D (even, with nut and splint)



Item no.	Load capacity t	a mm	b mm	c mm	d mm	l mm	Weight/Piece kg	Price each
0321 0020	2	13	16	30	20	41	0,34	Price on enquiry
0321 0032	3,25	16	19	38	27	51	0,67	
0321 0047	4,75	19	22	46	32	60	1,14	
0321 0065	6,5	22	25	53	36	71	1,75	
0321 0085	8,5	25	28	61	43	81	2,52	
0321 0095	9,5	28	32	68	46	90	3,45	
0321 0120	12	32	35	76	51	100	4,91	
0321 0135	13,5	35	38	84	57	111	6,24	
0321 0170	17	38	42	92	60	122	8,4	
0321 0250	25	45	50	106	73	146	14,26	
0321 0350	35	50	57	111	83	171	18,53	
0321 0425	42,5	57	65	134	95	190	25,94	
0321 0500	55	65	70	145	105	203	35,33	
0321 0850	85	75	83	163	127	229	52,87	

Super Green Pin® Shackle, hot-galvanized, Grade 8, hardened and tempered



Item no.	Load cap. t	Bow Ø a mm	Bolt Ø b mm	Eyes Ø c mm	Strength Eye d mm	Inner width e mm	Inner length f mm	Width bracket g mm	External length h mm	Length bolt i mm	External width j mm	Width nut k mm	Weight per Piece kg	Price per Piece
0329 9003	3,3	13,5	16	34	13,5	22	51	32	91	81	63	11	0,44	Price on enquiry
0329 9005	5,0	16,0	19	40	16,0	27	64	43	114	99	79	17	0,79	
0329 9007	7,0	19,0	22	47	19,0	31	76	51	136	115	94	20	1,26	
0329 9009	9,5	22,0	25	53	22,0	36	83	58	157	131	107	23	1,88	
0329 9013	12,5	25,0	28	60	25,0	43	95	68	176	151	124	25	2,78	
0329 9015	15,0	28,0	32	67	28,0	47	108	75	197	167	137	28	3,87	
0329 9018	18,0	32,0	35	74	32,0	51	115	83	218	179	154	31	5,26	
0329 9021	21,0	35,0	38	80	35,0	57	133	92	240	198	170	34	6,94	
0329 9030	30,0	38,0	42	89	38,0	60	146	99	262	203	183	19	8,79	
0329 9040	40,0	45,0	50	104	45,0	74	178	126	314	244	226	24	15,00	
0329 9055	55,0	57,0	57	133	50,0	83	197	138	365	286	264	27	22,00	
0329 9085	85,0	70,0	70	159	65,0	105	260	180	468	342	339	33	42,00	
0329 9120	120,0	83,0	83	171	75,0	127	330	190	564	400	371	40	70,00	
0329 9150	150,0*	95,0	95	215	89,0	144	381	238	667	440	416	50	112,00	
0329 9175	175,0*	105,0	108	245	100,0	165	400	275	702	490	485	60	160,00	

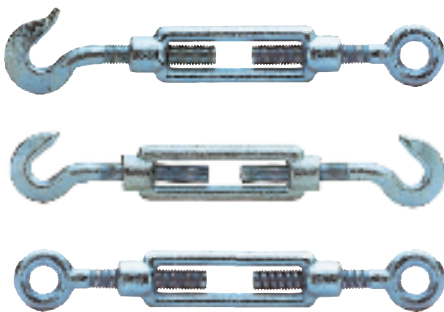
* = ring eye bolt

Rope accessories Turnbuckles

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Turnbuckles are characterised by an especially long clamp travel. The fork end can subsequently be mounted in building elements via the bolt and secured against accidental unhooking. The closed eye must already be mounted in the tension rope during rope manufacturing.

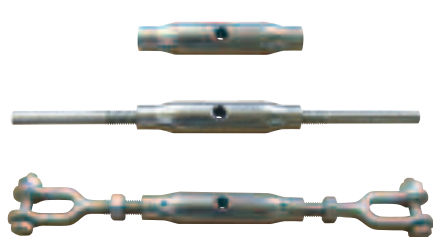
Turnbuckles, galvanized to DIN 1480, with Hook + Eye, with 2 Hooks or with 2 Eyes



Item no. hook + eye	Item no. hook + hook	Item no. eye +eye	thread strength	clevis width ca. mm	length ca. mm	Price each
0360 2006	0360 4006	0360 6006	M 6	9	110	Price on enquiry
0360 2008	0360 4008	0360 6008	M 8	10	110	
0360 2010	0360 4010	0360 6010	M 10	14	125	
0360 2012	0360 4012	0360 6012	M 12	16	125	
0360 2016	0360 4016	0360 6016	M 16	22	170	
0360 2020	0360 4020	0360 6020	M 20	24	200	

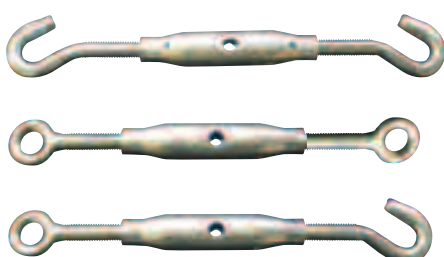
Other sizes available, please request more info.

Turnbuckles, galvanized to DIN 1478



Item no. nut loose	Price each	Item no. 2 weld-on ends	Price each	Item no. 2 forks	Price each	thread strength	clevis width ca. mm	length ca. mm
0360 8008	Price on enquiry	0361 0008	Price on enquiry	0361 8008	Price on enquiry	M 8	9	110
0360 8010		0361 0010		0361 8010		M 10	10,7	125
0360 8012		0361 0012		0361 8012		M 12	15,5	125
0360 8016		0361 0016		0361 8016		M 16	20	170
0360 8020		0361 0020		0361 8020		M 20	23,5	200
0360 8024		0361 0024		0361 8024		M 24	29	255
0360 8030		0361 0030		0361 8030		M 30	34	255
0360 8036		0361 0036		0361 8036		M 36	43	295

Turnbuckles, galvanized to DIN 1478



Item no. 2 hooks	Item no. 2 eyes	Item no. hook + eye	thread strength	eye width ca. mm	length ca. mm	Price each
0361 4008	0361 6008	0361 2008	M 8	10	110	Price on enquiry
0361 4010	0361 6010	0361 2010	M 10	14	125	
0361 4012	0361 6012	0361 2012	M 12	16	125	
0361 4016	0361 6016	0361 2016	M 16	22	170	
0361 4020	0361 6020	0361 2020	M 20	24	200	
0361 4024	0361 6024	0361 2024	M 24	27	255	
0361 4030	0361 6030	0361 2030	M 30	31	255	
0361 4036	0361 6036	0361 2036	M 36	43	295	

Rope accessories

Turnbuckles

DoDra



Turnbuckles galvanized, with extra long clamp travel (made according to U.S. Federal Specification)



2 forks Item no.	nominal size inches	opening length approx. mm	eye width approx. mm	fork width approx. mm	fork bolt approx. mm	load capacity kg	Price each
0361 7386	3/8 x 6	180	13	12	5/16	540	Price on enquiry
0361 7126	1/2 x 6	190	18	16	3/8	1000	
0361 7129	1/2 x 9	266	18	16	3/8	1000	
0361 7122	1/2 x 12	342	18	16	3/8	1000	
0361 7586	5/8 x 6	200	22	19	1/2	1590	
0361 7589	5/8 x 9	276	22	19	1/2	1590	
0361 7582	5/8 x 12	352	22	19	1/2	1590	
0361 7588	5/8 x 18	505	22	19	1/2	1590	
0361 7346	3/4 x 6	210	25	23	5/8	2360	
0361 7349	3/4 x 9	287	25	23	5/8	2360	
0361 7342	3/4 x 12	362	25	23	5/8	2360	
0361 7348	3/4 x 18	515	25	23	5/8	2360	
0361 7782	7/8 x 12	372	31	28	3/4	3270	
0361 7788	7/8 x 18	524	31	28	3/4	3270	
0361 7112	1 x 12	381	36	30	7/8	4540	
0361 7118	1 x 18	533	36	30	7/8	4540	

Turnbuckles galvanized, with extra long clamp travel (made according to U.S. Federal Specification)



fork/eye Item no.	nominal size inches	opening length approx. mm	eye width approx. mm	fork width approx. mm	fork bolt approx. mm	load capacity kg	Price each
0361 8386	3/8 x 6	180	13	12	5/16	540	Price on enquiry
0361 8126	1/2 x 6	190	18	16	3/8	1000	
0361 8129	1/2 x 9	266	18	16	3/8	1000	
0361 8122	1/2 x 12	342	18	16	3/8	1000	
0361 8586	5/8 x 6	200	22	19	1/2	1590	
0361 8589	5/8 x 9	276	22	19	1/2	1590	
0361 8582	5/8 x 12	352	22	19	1/2	1590	
0361 8588	5/8 x 18	505	22	19	1/2	1590	
0361 8346	3/4 x 6	210	25	23	5/8	2360	
0361 8349	3/4 x 9	287	25	23	5/8	2360	
0361 8342	3/4 x 12	362	25	23	5/8	2360	
0361 8348	3/4 x 18	515	25	23	5/8	2360	
0361 8782	7/8 x 12	372	31	28	3/4	3270	
0361 8788	7/8 x 18	524	31	28	3/4	3270	
0361 8112	1 x 12	381	36	30	7/8	4540	
0361 8118	1 x 18	533	36	30	7/8	4540	

Turnbuckles galvanized, with extra long clamp travel (made according to U.S. Federal Specification)



2 eyes Item no.	nominal size inches	opening length approx. mm	eye width approx. mm	fork width approx. mm	fork bolt approx. mm	load capacity kg	Price each
0362 0386	3/8 x 6	180	13	12	5/16	540	Price on enquiry
0362 0126	1/2 x 6	190	18	16	3/8	1000	
0362 0129	1/2 x 9	266	18	16	3/8	1000	
0362 0122	1/2 x 12	342	18	16	3/8	1000	
0362 0586	5/8 x 6	200	22	19	1/2	1590	
0362 0589	5/8 x 9	276	22	19	1/2	1590	
0362 0582	5/8 x 12	352	22	19	1/2	1590	
0362 0588	5/8 x 18	505	22	19	1/2	1590	
0362 0346	3/4 x 6	210	25	23	5/8	2360	
0362 0349	3/4 x 9	287	25	23	5/8	2360	
0362 0342	3/4 x 12	362	25	23	5/8	2360	
0362 0348	3/4 x 18	515	25	23	5/8	2360	
0362 0782	7/8 x 12	372	31	28	3/4	3270	
0362 0788	7/8 x 18	524	31	28	3/4	3270	
0362 0112	1 x 12	381	36	30	7/8	4540	
0362 0118	1 x 18	533	36	30	7/8	4540	



Turnbuckles galvanized, with extra long clamp travel (made according to U.S. Federal Specification)



hook/eye Item no.	nominal size inches	opening length approx. mm	eye width approx. mm	clevis width approx. mm	load capacity kg	Price each
0361 9386	3/8 x 6	180	13	12	450	Price on enquiry
0361 9126	1/2 x 6	190	18	15	680	
0361 9129	1/2 x 9	266	18	15	680	
0361 9122	1/2 x 12	342	18	15	680	
0361 9586	5/8 x 6	200	22	20	1020	
0361 9589	5/8 x 9	276	22	20	1020	
0361 9582	5/8 x 12	352	22	20	1020	
0361 9588	5/8 x 18	505	22	20	1020	
0361 9346	3/4 x 6	210	25	23	1360	
0361 9349	3/4 x 9	287	25	23	1360	
0361 9342	3/4 x 12	362	25	23	1360	
0361 9348	3/4 x 18	515	25	23	1360	
0361 9782	7/8 x 12	372	31	26	1810	
0361 9788	7/8 x 18	524	31	26	1810	
0361 9112	1 x 12	381	36	29	2270	
0361 9118	1 x 18	533	36	29	2270	

Turnbuckles galvanized, with extra long clamp travel (made according to U.S. Federal Specification)



2 hooks Item no.	nominal size inches	opening length approx. mm	eye width approx. mm	clevis width approx. mm	load capacity kg	Price each
0361 1386	3/8 x 6	180	13	12	450	Price on enquiry
0361 1126	1/2 x 6	190	18	15	680	
0361 1129	1/2 x 9	266	18	15	680	
0361 1122	1/2 x 12	342	18	15	680	
0361 1586	5/8 x 6	200	22	20	1020	
0361 1589	5/8 x 9	276	22	20	1020	
0361 1582	5/8 x 12	352	22	20	1020	
0361 1588	5/8 x 18	505	22	20	1020	
0361 1346	3/4 x 6	210	25	23	1360	
0361 1349	3/4 x 9	287	25	23	1360	
0361 1342	3/4 x 12	362	25	23	1360	
0361 1348	3/4 x 18	515	25	23	1360	
0361 1782	7/8 x 12	372	31	26	1810	
0361 1788	7/8 x 18	524	31	26	1810	
0361 1112	1 x 12	381	36	29	2270	
0361 1118	1 x 18	533	36	29	2270	

Rope accessories
Eye bolts
Ring nuts
Rope maintenance
agents

DoDra



Eye bolts and ring nuts are only allowed to put under load up to max. 45° tilt angle!



Eye bolts in style of DIN 580



Item no.	Carrying cap. to stress up to 45° for 2 screws in kg/prov. WLL	Carrying cap. to vertical stress in kg	Thread	Ø	Price per Piece
0390 6106	100	140	M 6	15	Price on enquiry
0390 6108	100	140	M 8	20	
0390 6110	170	230	M 10	25	
0390 6112	240	360	M 12	30	
0390 6116	500	700	M 16	35	
0390 6120	860	1200	M 20	40	
0390 6124	1290	1800	M 24	50	
0390 6130	2300	3200	M 30	60	
0390 6136	3300	4600	M 36	70	
0390 6142	4500	6300	M 42	80	
0390 6148	6100	8600	M 48	90	

Eye bolts DIN 580, galvanized



Item no.	Carrying cap. to stress up to 45° for 2 pieces in kg/prov. WLL	Carrying cap. to vertical stress in kg	Thread	Ø	Price per Piece
0392 6108	100	140	M 8	20	Price on enquiry
0392 6110	170	230	M 10	25	
0392 6112	240	360	M 12	30	
0392 6116	500	700	M 16	35	
0392 6120	860	1200	M 20	40	
0392 6130	2300	3200	M 30	60	
0392 6136	3300	4600	M 36	70	
0392 6142	4500	6300	M 42	80	
0392 6148	6100	8600	M 48	90	

Note: You can find high strength eye bolts and nuts on pages 435 - 437!

Ring Nuts in style of DIN 582



Item no.	Carrying cap. to stress up to 45° for 2 screws in kg/uvb. WLL	Carrying cap. to vertical stress in kg	Thread	Ø	Price per Piece
0390 7106	100	140	M 6	15	Price on enquiry
0390 7108	100	140	M 8	20	
0390 7110	170	230	M 10	25	
0390 7112	240	360	M 12	30	
0390 7116	500	700	M 16	35	
0390 7120	860	1200	M 20	40	
0390 7124	1290	1800	M 24	50	
0390 7130	2300	3200	M 30	60	
0390 7136	3300	4600	M 36	70	
0390 7142	4500	6300	M 42	80	
0390 7148	6100	8600	M 48	90	

Ring nut DIN 582, galvanized



Item no.	Carrying cap. to stress up to 45° for 2 pieces in kg/uvb. WLL	Carrying cap. to vertical stress in kg	Thread	Ø	Price per Piece
0392 7108	100	140	M 8	20	Price on enquiry
0392 7110	170	230	M 10	25	
0392 7112	240	360	M 12	30	
0392 7116	500	700	M 16	35	
0392 7120	860	1200	M 20	40	
0392 7124	1290	1800	M 24	50	
0392 7130	2300	3200	M 30	60	
0392 7136	3300	4600	M 36	70	
0392 7142	4500	6300	M 42	80	
0392 7148	6100	8600	M 48	90	

Rope Maintenance Agents



Item no.	Item	Price each
0399 0044	DoGrease F wire rope grease 10 kg-barrel	Price on enquiry
0397 9999	DoGrease wire rope spray 500 ml aerosol can	
0399 0055	DoGrease O wire rope oil 20 l can	
0399 0057	grease brush removable	

As a machine element, the rope is subjected to constant bending strains. When running over sheaves and coiling on the drum, shifts of the individual wires result in constant friction on the neighbouring wires and strands. Regular rope maintenance with DoGrease lubricants is as important as changing the oil in an engine!

Rope accessories Wire rope sheaves

DoDra



The ideal rope sheave diameter is equal to or more than 25 x rope diameter (d)

Wire Rope Sheave 30, with gunmetal sleeve



Gray iron Item no.	Rope \varnothing mm	Load cap. kg	Sheave \varnothing mm	Grooves width mm	Grooves depth mm	Inner race length mm	Inner race \varnothing mm	Boring \varnothing mm	Price each	Steel Item no.	Price each
0373 0101 *	11	500	100	12	10	23	40	19	Price on enquiry	0373 0102	Price on enquiry
0373 0121 *	12	1.000	125	14	11	24	48	22		0373 0122	
0373 0151 *	13	2.000	150	16	12	29	63	30/35		0373 0152	
0373 0171	17	3.000	175	19	15	40	70	40		0373 0172	
0373 0201	17	3.000	200	20	15	40	70	40		0373 0202	
0373 0221	23	5.000	225	24	20	48	85	55		0373 0222	
0373 0251	23	5.000	250	24	20	48	85	55		0373 0252	
0373 0311	26	8.000	310	26	25	56	100	60/65		0373 0312	
0373 0351	28	10.000	350	28	25	56	110	70		0373 0352	
0373 0401	30	12.500	400	30	30	68	125	80		0373 0402	
0373 0481	30	16.000	480	32	35	68	135	85		0373 0482	
-	34	20.000	490	36	45	80	155	100		0373 0492	
-	38	32.000	600	40	50	94	180	125		0373 0602	

* from Polyamide

Wire Rope Sheave 31, with full base



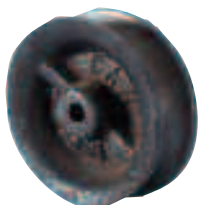
Item no.	Rope \varnothing mm	Load capacity kg	Sheave \varnothing mm	Grooves width mm	Grooves depth mm	Inner race length mm	Inner race \varnothing mm	Boring \varnothing mm	Price each
0373 1111	11	1000	110	12	9	24	50	18	Price on enquiry
0373 1131	11	1200	135	12	10	24	57	20	
0373 1161	13	1400	165	14	13	29	65	24	
0373 1191	15	1600	190	16	15	31	72	26	
0373 1221	19	1800	220	20	18	36	82	28	
0373 1241	22	2000	245	23	19	40	94	32	
0373 1271	23	2200	270	25	20	42	100	34	
0373 1301	23	2400	300	25	23	42	100	40	
0373 1321	23	2600	325	25	23	46	110	48	
0373 1351	24	2800	350	26	25	46	120	50	
0373 1401	26	3200	400	26	26	50	140	60	

Wire Rope Sheave 32 with smaller, round groove



Item no.	Rope \varnothing mm	Load capacity kg	Sheave \varnothing mm	Grooves width mm	Grooves depth mm	Inner race length mm	Inner race \varnothing mm	Boring \varnothing mm	Price each
0373 2021	4	15	25	5	3	9	8	4	Price on enquiry
0373 2031	5	15	30	6	4	10	9	4	
0373 2041	6	15	40	7	4	11	12	4	
0373 2051	6	22	50	7,5	5	12	13	5	
0373 2061	8	22	60	9	6	13	14	5	
0373 2071	8	25	70	9	6	14	16	6	
0373 2081	8	25	80	11	7	16	17	6	
0373 2101	10	30	100	11	7	16	18	6	
0373 2121	11	35	120	12	8	19	25	6	

Wire Rope Sheave 33, with normal inner hub



Item no.	Rope \varnothing mm	Load capacity kg	Sheave \varnothing mm	Grooves width mm	Grooves depth mm	Inner race length mm	Inner race \varnothing mm	Boring \varnothing mm	Price each
0373 3031	7	15	30	8,5	4	11,5	12	4	Price on enquiry
0373 3041	8	25	40	9	5	14,5	12	5	
0373 3051	10	30	50	11	7	18,5	13	5	
0373 3061	11	40	60	12,5	8	20,0	15	6	
0373 3071	13	50	70	14	9	22,0	19	8	
0373 3081	13	80	80	15	10	23,5	20	10	
0373 3091	15	100	90	17	11	24,5	20	11	
0373 3101	17	110	100	18	12	27,5	24	12	
0373 3121	19	140	120	20	15	32,0	24	12	

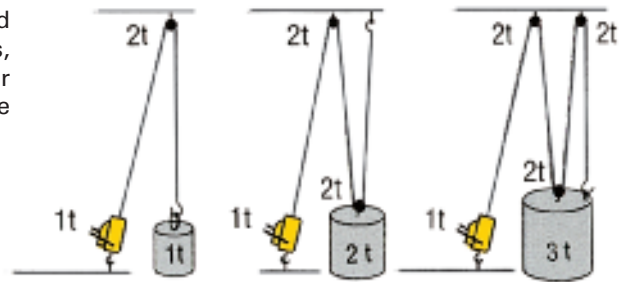
Rope accessories

Wire rope sheaves

Wire rope blocks

DoDra

If a haulage rope is lead over one or more sheaves, the traction is doubled or multiplied respectively, see the following examples:



Wire Rope Sheave 34, with blank groove



Item no.	Rope ø mm	Load capacity kg	Sheave ø mm	Grooves width mm	Grooves depth mm	Inner race length mm	Inner race ø mm	Boring ø mm	Price each
0373 4061	6	75	60	6	6	16	32	11	Price on enquiry
0373 4071	7	100	75	7	7	16	33	12	
0373 4091	8	150	90	9	9	20	36	14	
0373 4101	9	250	100	10	10	24	40	14	
0373 4121	10	500	120	11	11	30	46	19	
0373 4131	12	500	130	13	13	32	52	22	
0373 4151	14	1000	150	15	15	35	54	25	
0373 4171	16	1500	175	17	17	43	60	27	
0373 4201	18	2000	200	19	19	52	63	30	
0373 4231	22	3000	230	23	23	61	71	35	

Wire Rope Sheave 35, with blank groove



Item no.	Rope ø mm	Load capacity kg	Sheave ø mm	Grooves width mm	Grooves depth mm	Inner race length mm	Inner race ø mm	Boring ø mm	Price each
0373 5111	10	500	115	11	13	26	38	14	Price on enquiry
0373 5151	10	1000	155	11	13	28	48	19	
0373 5181	16	1500	185	17	18	35	54	22	
0373 5221	16	2000	220	17	18	35	54	22	
0373 5261	18	3000	260	19	19	43	65	25	
0373 5311	26	5000	310	28	30	56	85	35	

Wire Rope Sheave 40, made from Polyamide



Item no.	Sheave ø mm	Grooves width mm	Grooves depth mm	Inner race length mm	Inner race ø mm	Boring ø mm	Price each
0374 0015	15	6	3	9	--	4	Price on enquiry
0374 0020	20	6	4	10	--	4	
0374 0025	25	7	4	11	--	4	
0374 0030	30	8	6	12	--	6	
0374 0041	40	9	7	13	15	7	
0374 0045	48	8	4	15	17	8	
0374 0051	50	12	9	16	16	8	

Wire Rope retractable Block, 1roll (GG = grey iron / St. = steel)



GG Roll with Swivel long eye Item no.	GG Roll with rotat. hook Item no.	Load cap. at hook t	Roll ø mm	max. rope ø mm	Price each	St. Roll with swivel long eye Item no.	St. Roll with rotat. hook Item no.	Price each
0370 5101	0371 1101	0,5	100	7	Price on enquiry	0370 5102	0371 1102	Price on enquiry
0370 5121	0371 1121	1,0	125	9				
0370 5151	0371 1151	2,0	150	11				
0370 5171	0371 1171	3,0	175	12				
0370 5201	0371 1201	3,0	200	15				
0370 5221	0371 1221	5,0	225	16				
0370 5251	0371 1251	5,0	250	18				
0370 5311	0371 1311	8,0	310	23				
0370 5351	0371 1351	10,0	350	26				
0370 5401	0371 1401	12,5	400	30				

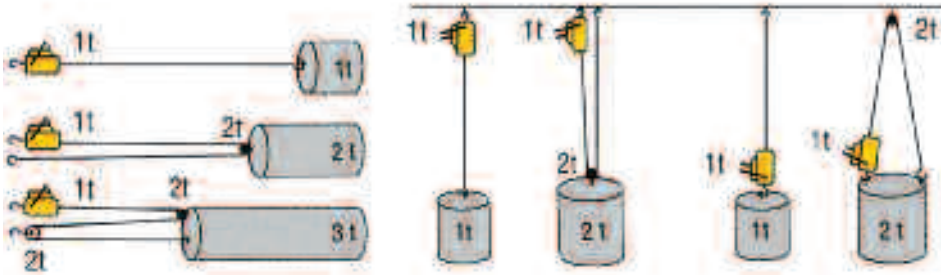
Wire Rope retractable Block, 2roll (GG = grey iron / St. = steel)



GG Roll with Swivel long eye Item no.	GG Roll with rotat. hook Item no.	Load cap. at hook t	Roll ø mm	max. rope ø mm	Price each	St. Roll with swivel long eye Item no.	St. Roll with rotat. hook Item no.	Price each
0370 6101	0371 2101	1,0	100	7	Price on enquiry	0370 6102	0371 2102	Price on enquiry
0370 6121	0371 2121	1,6	125	9				
0370 6151	0371 2151	3,0	150	11				
0370 6171	0371 2171	5,0	175	12				
0370 6201	0371 2201	5,0	200	15				
0370 6221	0371 2221	8,0	225	16				
0370 6251	0371 2251	8,0	250	18				
0370 6311	0371 2311	12,5	310	23				
0370 6351	0371 2351	16,0	350	26				
0370 6401	0371 2401	20,0	400	30				

Rope accessories Wire rope blocks

DoDra



Wire Rope Blocks 1roll, (GG = grey iron / St. = steel)



GG Roll with Swivel long eye Item no.	GG Roll with rotat. hook Item no.	Load cap. at hook t	Roll Ø mm	max. rope Ø mm	Price each	St. Roll with swivel long eye Item no.	St. Roll with rotat. hook Item no.	Price each
0370 1101	0370 7101	0,5	100	7	Price on enquiry	0370 1102	0370 7102	Price on enquiry
0370 1121	0370 7121	1,0	125	9		0370 1122	0370 7122	
0370 1151	0370 7151	2,0	150	11		0370 1152	0370 7152	
0370 1171	0370 7171	3,0	175	12		0370 1172	0370 7172	
0370 1201	0370 7201	3,0	200	15		0370 1202	0370 7202	
0370 1221	0370 7221	5,0	225	16		0370 1222	0370 7222	
0370 1251	0370 7251	5,0	260	18		0370 1252	0370 7252	
0370 1311	0370 7311	8,0	310	23		0370 1312	0370 7312	
0370 1351	0370 7351	10,0	350	26		0370 1352	0370 7352	
0370 1401	0370 7401	12,5	400	30		0370 1402	0370 7402	
-	-	16,0	480	32	0370 1482	0370 7482		

Wire Rope Block 2roll (GG = grey iron / St. = steel)



GG Roll with Swivel long eye Item no.	GG Roll with rotat. hook Item no.	Load cap. at hook t	Roll Ø mm	max. rope Ø mm	Price each	St. Roll with swivel long eye Item no.	St. Roll with rotat. hook Item no.	Price each
0370 2101	0370 8101	1,0	100	7	Price on enquiry	0370 2102	0370 8102	Price on enquiry
0370 2121	0370 8121	1,6	125	9		0370 2122	0370 8122	
0370 2151	0370 8151	3,0	150	11		0370 2152	0370 8152	
0370 2171	0370 8171	5,0	175	12		0370 2172	0370 8172	
0370 2201	0370 8201	5,0	200	15		0370 2202	0370 8202	
0370 2221	0370 8221	8,0	225	16		0370 2222	0370 8222	
0370 2251	0370 8251	8,0	260	18		0370 2252	0370 8252	
0370 2311	0370 8311	12,6	310	23		0370 2312	0370 8312	
0370 2351	0370 8351	16,0	350	26		0370 2352	0370 8352	
0370 2401	0370 8401	20,0	400	30		0370 2402	0370 8402	
-	-	25,0	480	32	0370 2482	0370 8482		

Wire Rope Block 3roll (GG = grey iron / St. = steel)



GG Roll with Swivel long eye Item no.	GG Roll with rotat. hook Item no.	Load cap. at hook t	Roll Ø mm	max. rope Ø mm	Price each	St. Roll with swivel long eye Item no.	St. Roll with rotat. hook Item no.	Price each
0370 3101	0370 9101	1,6	100	7	Price on enquiry	0370 3102	0370 9102	Price on enquiry
0370 3121	0370 9121	2,0	125	9		0370 3122	0370 9122	
0370 3151	0370 9151	5,0	150	11		0370 3152	0370 9152	
0370 3171	0370 9171	8,0	175	12		0370 3172	0370 9172	
0370 3201	0370 9201	8,0	200	15		0370 3202	0370 9202	
0370 3221	0370 9221	10,0	225	16		0370 3222	0370 9222	
0370 3251	0370 9251	12,5	260	18		0370 3252	0370 9252	
0370 3311	0370 9311	20,0	310	23		0370 3312	0370 9312	
0370 3351	0370 9351	25,0	350	26		0370 3352	0370 9352	
0370 3401	0370 9401	32,0	400	30		0370 3402	0370 9402	
-	-	40,0	480	32	0370 3482	0370 9482		

Wire Rope Block 4roll (GG = grey iron / St. = steel)



GG Roll with Swivel long eye Item no.	GG Roll with rotat. hook Item no.	Load cap. at hook t	Roll Ø mm	max. rope Ø mm	Price each	St. Roll with swivel long eye Item no.	St. Roll with rotat. hook Item no.	Price each
0370 4101	0371 0101	2,0	100	7	Price on enquiry	0370 4102	0371 0102	Price on enquiry
0370 4121	0371 0121	3,0	125	9		0370 4122	0371 0122	
0370 4151	0371 0151	5,0	150	11		0370 4152	0371 0152	
0370 4171	0371 0171	8,0	175	12		0370 4172	0371 0172	
0370 4201	0371 0201	10,0	200	15		0370 4202	0371 0202	
0370 4221	0371 0221	12,5	225	16		0370 4222	0371 0222	
0370 4251	0371 0251	16,0	260	18		0370 4252	0371 0252	
0370 4311	0371 0311	25,0	310	23		0370 4312	0371 0312	
0370 4351	0371 0351	32,0	350	26		0370 4352	0371 0352	
0370 4401	0371 0401	40,0	400	30		0370 4402	0371 0402	
-	-	50,0	480	32	0370 4482	0371 0482		

Rope accessories

DoDra



Open wedge sockets are suitable for steel wire ropes up to max. 1770N/mm² nominal strenght.

Open wedge sockets, DIN EN 13411-7, galvanized (for elevator constructions)

Nom. size mm	for Rope-Ø mm	Item no. without bolt sheave and splint	Price each	Item no. complete	Price each
5	4 - 5	0390 8005	Price on enquiry	0390 8505	Price on enquiry
8	6 - 8	0390 8008		0390 8508	
11	9 - 11	0390 8011		0390 8511	
14	12 - 14	0390 8014		0390 8514	
17	15 - 17	0390 8017		0390 8517	
20	18 - 20	0390 8020		0390 8520	
25	21 - 25*	0390 8025		0390 8525	
30	26 - 30*	0390 8030		0390 8530	
35	31 - 35*	0390 8035		0390 8535	
40	36 - 40*	0390 8040		0390 8540	

* Rope sockets in style of DIN EN 13411-7



Wedge Type Socket for Lifting Devices, DIN EN 13411-6, galvanized

Item no.	for rope Ø mm	cargo load kN	Price each
0313 6067	6 - 7	18	Price on enquiry
0313 6008	8 - 10	18	
0313 6912	11 - 12	22	
0313 6015	13 - 15	50	
0313 6017	16 - 17	55	
0313 6018	18	55	
0313 6020	19 - 20	80	



Mooring Socket (bulb-shaped) Rope Shackle

Rope Sockets



for Rope-Ø max in mm	effektive rupture load kp	Item no. mooring socket	Price	Item no. rope shackle	Price	Item no. rope sockets	Price
10	7000	0375 0001	Price on enquiry	0375 1001	Price on enquiry	0375 2001	Price on enquiry
10 - 12	10050	0375 0002		0375 1002		0375 2002	
13 - 14	13650	0375 0003		0375 1003		0375 2003	
13 - 16	15700	0375 0004		0375 1004		0375 2004	
18	20160	0375 0005		0375 1005		0375 2005	
19 - 20	22600	0375 0006		0375 1006		0375 2006	
22 - 24	33750	0375 0007		0375 1007		0375 2007	
27	40200	0375 0008		0375 1008		0375 2008	
29	47150	0375 0009		0375 1009		0375 2009	
31 - 33	62750	0375 0010		0375 1010		0375 2010	
35	71400	0375 0011	0375 1011	0375 2011			
37	80600	0375 0012	0375 1012	0375 2012			
40	90400	0375 0013	0375 1013	0375 2013			
43 - 45	107500	0375 0014	0375 1014	0375 2014			
48	120350	0375 0015	0375 1015	0375 2015			

Mooring of Rope End Fittings

Rope - Ø mm	Price each
10	Price on enquiry
11	
12	
13	
14	
15	
16	
18	
20	
22	
24	
26	
28	
30	
32	
34	
36	
38	
40	
42	
44	

Open Spelter Socket with Bolt (Form C)

without Bolt (Form B)

Closed Spelter Socket



for Rope-Ø max in mm	Load cap. kg	Item no. open socket Form B	Price	Item no. open socket Form C	Price	Item no. closed socket	Price
10 - 12	1000	0375 3010	Price on enquiry	0375 4010	Price on enquiry	-	Price on enquiry
12 - 14	1600	0375 3016		0375 4016		0375 5016	
14 - 18	2500	0375 3025		0375 4025		0375 5025	
16 - 20	3000	0375 3030		0375 4030		0375 5030	
18 - 22	4000	0375 3040		0375 4040		0375 5040	
20 - 24	5000	0375 3050		0375 4050		0375 5050	
22 - 28	6000	0375 3060		0375 4060		0375 5060	
26 - 30	8000	0375 3080		0375 4080		0375 5080	
28 - 34	10000	0375 3100		0375 4100		0375 5100	
32 - 38	12000	0375 3120		0375 4120		0375 5120	
36 - 44	16000	0375 3160	0375 4160	0375 5160			
40 - 50	20000	0375 3200	0375 4200	0375 5200			
44 - 54	25000	0375 3250	0375 4250	0375 5250			
50 - 62	32000	0375 3320	0375 4320	0375 5320			



Cable Socks Twist Arrestors

DoDra



Appropriate tools
prevent wrong
mounting!

Cable Socks SES 100

1.250 mm Item no.	Rope diam. from/up to mm	pulling strenght in kN	Price each	1.500 mm Item no.	Price each
0399 1001	8 - 15	5,1	Price on enquiry	0399 1002	Price on enquiry
0399 1011	15 - 20	12,7		0399 1012	
0399 1021	20 - 30	15,9		0399 1022	
0399 1031	30 - 40	19,1		0399 1032	
0399 1041	40 - 50	22,3		0399 1042	

Cable Socks SMS 200

1.250 mm Item no.	Rope diam. from/up to mm	pulling strenght in kN	Price each	1.500 mm Item no.	Price each
0399 2001	8 - 15	5,1	Price on enquiry	0399 2002	Price on enquiry
0399 2011	15 - 20	12,7		0399 2012	
0399 2021	20 - 30	15,9		0399 2022	
0399 2031	30 - 40	19,1		0399 2032	
0399 2041	40 - 50	22,3		0399 2042	

Cable Socks SVS 400 – Standard

1.500 mm Item no.	Rope diam. from/up to mm	pulling strenght in kN	Price each	2.000 mm Item no.	Price each
0399 4001	6 - 8	3,2	Price on enquiry	0399 4002	Price on enquiry
0399 4901	8 - 10	3,2		0399 4902	
0399 4011	10 - 15	5,1		0399 4012	
0399 4911	15 - 20	12,7		0399 4912	
0399 4021	20 - 30	15,9		0399 4022	
0399 4031	30 - 40	19,1		0399 4032	
0399 4041	40 - 50	22,3		0399 4042	

Cable Socks SVS 400 – Reinforced

1.500 mm Item no.	Rope diam. from/up to mm	pulling strenght in kN	Price each	2.000 mm Item no.	Price each
0399 4016	10 - 15	6,8	Price on enquiry	0399 4017	Price on enquiry
0399 4916	15 - 20	19,1		0399 4917	
0399 4026	20 - 30	23,9		0399 4023	
0399 4936	30 - 40	28,6		0399 4037	
0399 4046	40 - 50	33,4		0399 4047	

Through the rigid coupling of the rope to be discarded with the rope to be newly fitted, torsion damage to the old rope can be transferred to the new rope. To avoid this, use 2 pcs SES100 cable socks, whose thimbles you connect with a twist arrestor or a soft iron wire (dimensioned strong enough to bear the dead weight of the rope). In this coupler element the rotation damage/torques can be hammered out.

If torques are excluded, both rope ends can be connected with an SVS 400 cable sock.

As a machine element, the rope is subjected to constant bending strains. When running over disks and coiling up on the barrel, movement of the individual wires cause constant friction on the neighbouring wires and lacings. Regular rope maintenance with DoGrease lubricants is as important as changing the oil in an engine!

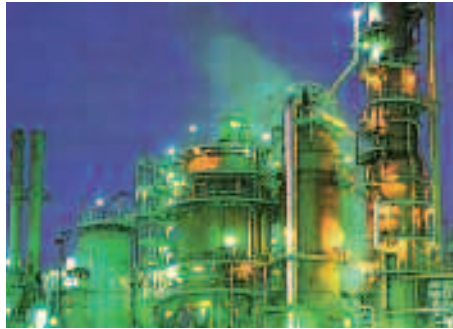
Stainless Steel Ropes and Accessories

for industrial use

Dovier



Steel wire ropes made from stainless steel have been a mainstay over the past decades for machine engineering, chemical industry, shipbuilding, the food industry and medical technology.



Our Stainless Steel Program for Industrial Use is structured into the following areas: (pages 301-307)

Assembled Lifting Ropes + Stainless Steel Accessories



Stainless Steel Ropes metered goods



Standard Rope Accessories made from Stainless Steel



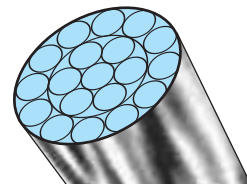
Stainless Steel Ropes

DoVier

With stainless steel you have a material which is suitable as a permanent and low-cost solution for designing tasks in particular, due to its corrosion resistance, stability, toughness and plasticity.

Further advantages result from the chemical resistance when used in the chemical industry or in food handling areas.

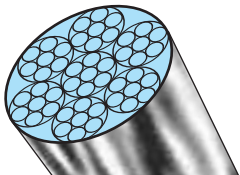
Stainless Steel is a collective term for a group of more than 100 non-rusting and acid-resistant steels. The five most frequently used materials in architecture are characterized by the following properties:



Material number	Short name	Chemical Composition (Mass percentage in %)				
		C	Cr	Mo	Ni	Others
1.4016	X6Cr 17	≤ 0,08	16,0 / 18,0	—	—	—
1.4301	X6Cr Ni18-10	≤ 0,07	17,0 / 19,5	—	8,0 / 10,5	N ≤ 0,11
1.4401	X6Cr NiMo17-12-2	≤ 0,07	16,5 / 18,5	2,0 / 2,5	10,0 / 13,0	N ≤ 0,11
1.4541	X6Cr NiTi18-10	≤ 0,08	17,0 / 19,0	—	9,0 / 12,0	Ti6xC to 0,70
1.4571	X6Cr NiMoT17-12-2	≤ 0,08	16,5 / 18,5	2,0 / 2,5	10,5 / 13,5	Ti6xC to 0,70

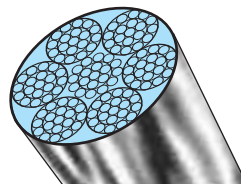
DoVier 119 Material 1.4401 Wire Rope 1 x 19 Wires

Item no.	Nominal ø mm	kg/m	Min. breaking load kN	Price per m
0419 0101	1,0	0,005	0,825	Price on enquiry
0419 0151	1,5	0,011	1,86	
0419 0201	2,0	0,020	3,30	
0419 0301	3,0	0,045	7,42	
0419 0401	4,0	0,079	13,2	
0419 0501	5,0	0,124	20,6	



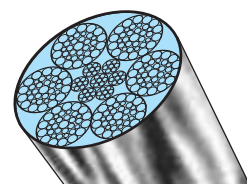
DoVier 707 Material 1.4401 Wire ropes 6 x 7 Wires. IWRC

Item no.	Nominal ø mm	kg/m	Min. breaking load kN	Price per m
0407 0107	1,0	0,005	0,56	Price on enquiry
0407 0207	2,0	0,016	2,25	
0407 0307	3,0	0,035	5,06	
0407 0407	4,0	0,063	9,04	
0407 0507	5,0	0,098	13,20	
0407 0607	6,0	0,142	20,30	



DoVier 719 Material 1.4401 Wire ropes 7 x 19 Wires. IWRC

Item no.	Nominal ø mm	kg/m	Min. breaking load kN	Price per m
0419 0207	2,0	0,015	2,09	Price on enquiry
0419 0307	3,0	0,034	4,70	
0419 0407	4,0	0,061	8,30	
0419 0507	5,0	0,095	13,00	
0419 0607	6,0	0,138	18,80	
0419 0807	8,0	0,243	33,30	



DoVier 736 Material 1.4401 Wire ropes 6 x 36 Wires. IWRC

Item no.	Nominal ø mm	kg/m	Min. breaking load kN	Price per m
0436 1007	10,0	0,422	55,85	Price on enquiry
0436 1207	12,0	0,602	80,60	
0436 1407	14,0	0,820	109,00	
0436 1607	16,0	1,070	143,00	
0436 1807	18,0	1,350	181,00	
0436 2007	20,0	1,670	221,00	
0436 2407	24,0	2,410	332,00	

Stainless Steel Ropes and Accessories

Dovier



Stainless Steel – best suited for applications in the food industry!



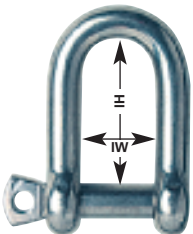
Lifting Ropes made from Stainless Steel

Carrying load kg simple direct	Rope nominal diameter mm	Fig. 301 Eyes Pressed Copper ferrule	Fig. 381 Eyes Pressed Stainl.Steel ferrule	Fig. 302 Thimbles Pressed Copper ferrule	Fig. 382 Thimbles Pressed Stainl.Steel ferrule	Price per extra m
		Item no.	Item no.	Item no.	Item no.	
40	2,0	2401 0201	2481 0201	2402 0201	2482 0201	Price on enquiry
85	3,0	2401 0301	2481 0301	2402 0301	2482 0301	
150	4,0	2401 0401	2481 0401	2402 0401	2482 0401	
240	5,0	2401 0501	2481 0501	2402 0501	2482 0501	
350	6,0	2401 0601	2481 0601	2402 0601	2482 0601	
500	8,0	2401 0801	2481 0801	2402 0801	2482 0801	
850	10,0	2401 1001	2481 1001	2402 1001	2482 1001	
1200	12,0	2401 1201	2481 1201	2402 1201	2482 1201	

Price 1 Meter Using length
Price on enquiry

Shackle, Material 1.4401

straight



Item no.	Bolt mm	carrying cap. ca. kg	I.W. x I.H. mm	Price each
1420 1007	4	700	8 x 14	Price on enquiry
1420 1016	5	1000	10 x 17	
1420 1019	6	1500	13 x 21	
1420 1030	8	2800	16 x 23	
1420 1048	10	3800	19 x 38	
1420 1075	12	6000	26 x 42	
1420 1135	16	10000	32 x 51	
1420 1210	20	15000	37 x 61	

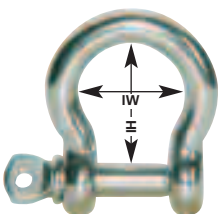
Snap Hook, INOX



Item no.	Length x diam. mm	Loading/kg non-committal	Price each
1410 1100	50 x 5	100	Price on enquiry
1410 1150	60 x 6	150	
1410 1200	70 x 7	200	
1410 1300	80 x 8	300	
1410 1400	100 x 10	400	
1410 1500	120 x 11	500	

Shackle, Material 1.4401

Bow



Item no.	Bolt mm	carrying cap. ca. kg	I.W. x I.H. mm	Price each
1420 1004	4	800	14 x 14	Price on enquiry
1420 1005	5	1200	17 x 17,5	
1420 1006	6	1900	21 x 21	
1420 1008	8	2800	28 x 28	
1420 1010	10	4300	34 x 35	
1420 1012	12	6500	42 x 42	
1420 1017	16	12000	56 x 56	
1420 1020	20	18200	66 x 78	

Eye Hook, INOX



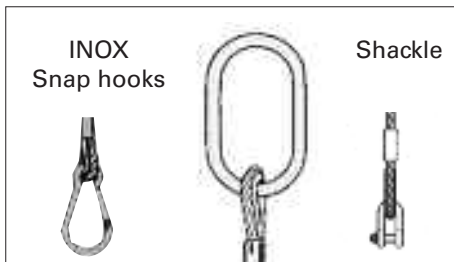
Item no.	carrying capacity kg	Weight kg	Price each
1410 3906	750	0,350	Price on enquiry
1410 3908	1250	0,810	
1410 3910	2000	1,370	
1410 3913	2800	2,800	
1410 3916	5000	5,300	

Rope Suspensions made from Stainless Steel

1 up to 4-legs with Container Hooks or Shackles

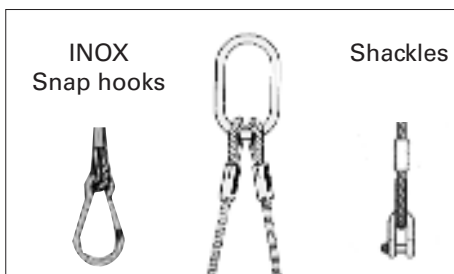
DoVier

DoVier – Stainless Steel Lifting Rope Suspensions, 1-leg



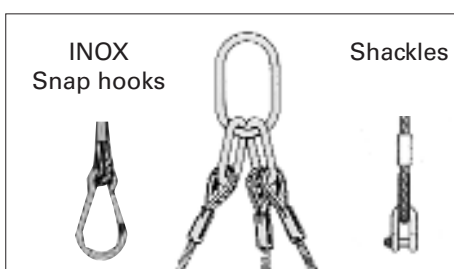
carrying capacity in kg	Rope nominal diameter	Item no. with Snap hook INOX	Price 1m using length	Item no. with Shackles	Price 1m using length	Price Extra m
200	5	2403 0501	Price on enquiry	2404 0501	Price on enquiry	Price on enquiry
300	6	2403 0601		2404 0601		
500	8	2403 0801		2404 0801		
750	10	2403 1001		2404 1001		
1200	12	2403 1201		2404 1201		

DoVier – Stainless Steel Lifting Rope Suspensions, 2-leg



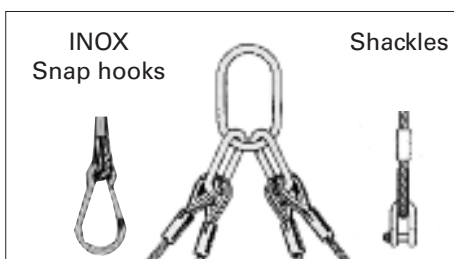
carrying capacity in kg	Rope nominal diameter	Item no. with Snap hook INOX	Price 1m using length	Item no. with Shackles	Price 1m using length	Price Extra m	
280	200	5	Price on enquiry	2403 0502	Price on enquiry	Price on enquiry	
420	300	6		2403 0602			2404 0602
700	500	8		2403 0802			2404 0802
1050	750	10		2403 1002			2404 1002
1680	1200	12		2403 1202			2404 1202

DoVier – Stainless Steel Lifting Rope Suspensions, 3-leg



carrying capacity in kg	Rope nominal diameter	Item no. with Snap hook INOX	Price 1m using length	Item no. with Shackles	Price 1m using length	Price Extra m	
420	300	5	Price on enquiry	2403 0503	Price on enquiry	Price on enquiry	
630	450	6		2403 0603			2404 0603
1050	750	8		2403 0803			2404 0803
1575	1125	10		2403 1003			2404 1003
2520	1800	12		2403 1203			2404 1203

DoVier – Stainless Steel Lifting Rope Suspensions, 4-leg



carrying capacity in kg	Rope nominal diameter	Item no. with Snap hook INOX	Price 1m using length	Item no. with Shackles	Price 1m using length	Price Extra m	
420	300	5	Price on enquiry	2403 0504	Price on enquiry	Price on enquiry	
630	450	6		2403 0604			2404 0604
1050	750	8		2403 0804			2404 0804
1575	1125	10		2403 1004			2404 1004
2520	1800	12		2403 1204			2404 1204

Rope Suspensions made from Stainless Steel

1 up to 4-legs with Eye Hooks

DoVier

DoVier – Stainless Steel Lifting Rope Suspensions, 1-leg



Item no. with Eye Hook	Carrying capacity in kg tilt angle		Rope nominal Ø	Price 1m using length	Price Extra m
	0°				
2405 0501	200		5	Price on enquiry	Price on enquiry
2405 0601	300		6		
2405 0801	500		8		
2405 1001	750		10		
2405 1201	1200		12		

DoVier – Stainless Steel Lifting Rope Suspensions, 2-leg



Item no. with Eye Hook	Carrying capacity in kg tilt angle		Rope nominal Ø	Price 1m using length	Price Extra m
	0-45°	45-60°			
2405 0502	280	200	5	Price on enquiry	Price on enquiry
2405 0602	420	300	6		
2405 0802	700	500	8		
2405 1002	1050	750	10		
2405 1202	1680	1200	12		

DoVier – Stainless Steel Lifting Rope Suspensions, 3-leg



Item no. with Eye Hook	Carrying capacity in kg tilt angle		Rope nominal Ø	Price 1m using length	Price Extra m
	0-45°	45-60°			
2405 0503	420	300	5	Price on enquiry	Price on enquiry
2405 0603	630	450	6		
2405 0803	1050	750	8		
2405 1003	1575	1125	10		
2405 1203	2520	1800	12		

DoVier – Stainless Steel Lifting Rope Suspensions, 4-leg



Item no. with Eye Hook	Carrying capacity in kg tilt angle		Rope nominal Ø	Price 1m using length	Price Extra m
	0-45°	45-60°			
2405 0504	420	300	5	Price on enquiry	Price on enquiry
2405 0604	630	450	6		
2405 0804	1050	750	8		
2405 1004	1575	1125	10		
2405 1204	2520	1800	12		

Rope Accessories made from Stainless Steel

DoVier



Clamps, Material 1.4401

Item no.	für Rope ø mm	Clamp no. required	Price each
1440 1002	2	3	Price on enquiry
1440 1003	3	3	
1440 1004	4	3	
1440 1005	5	3	
1440 1006	6	3	
1440 1008	8	4	
1440 1010	10	4	
1440 1012	12	4	



Simplex Clamps, Material 1.4301

Item no.	for Rope ø mm	Screw thread	Price each
1440 2002	2 - 2,5	M 3	Price on enquiry
1440 2003	3 - 3,5	M 4	
1440 2004	4 - 4,5	M 5	
1440 2005	5 - 5,5	M 5	
1440 2006	6 - 6,5	M 6	
1440 2007	7 - 7,5	M 6	
1440 2008	8 - 8,5	M 8	



Duplex Clamps, Material 1.4301

Item no.	für Rope ø mm	Screw thread	Price each
1440 3002	2 - 2,5	M 3	Price on enquiry
1440 3003	3 - 3,5	M 4	
1440 3004	4 - 4,5	M 5	
1440 3005	5 - 5,5	M 5	
1440 3006	6 - 6,5	M 6	
1440 3007	7 - 7,5	M 6	
1440 3008	8 - 8,5	M 8	
1440 3010	10 - 11	M10	



Clamp, Ring 2-part, Material 1.4301

Item no.	for Rope ø mm	Diameter mm	Price each
1440 8030	3	15	Price on enquiry
1440 8040	4	15	
1440 8050	5	20	
1440 8060	6	20	
1440 8080	8	25	



Rope Accessories made from Stainless Steel

Dovier

We also supply ready-made rope nets, see pages 336-339.

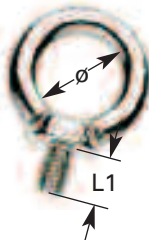
Thimbles, Material 1.4401

Item no.	Groove width mm	I.W. x I.L. mm	Price each
1430 1002	2	7 x 10	Price on enquiry
1430 1003	3	9 x 15	
1430 1004	4	11 x 18	
1430 1005	5	14 x 20	
1430 1006	6	15 x 23	
1430 1008	8	18 x 29	
1430 1010	10	24 x 37	
1430 1012	12	28 x 47	



Eye Bolt, Material 1.4301

Item no.	Thread	L1 mm	Clearance mm	Price each
1490 6106	M 6	8	15	Price on enquiry
1490 6108	M 8	17	17	
1490 6110	M 10	17	25	
1490 6112	M 12	21	30	
1490 6116	M 16	27	35	
1490 6120	M 20	30	40	
1490 6124	M 24	36	50	



Eye Nut, Material 1.4301

Item no.	Thread	Clearance mm	Price each
1490 7206	M 6	14	Price on enquiry
1490 7208	M 8	20	
1490 7210	M 10	25	
1490 7212	M 12	27	
1490 7216	M 16	34	
1490 7220	M 20	40	
1490 7224	M 24	50	



Cross clamp with Set Screw, Material 1.4401

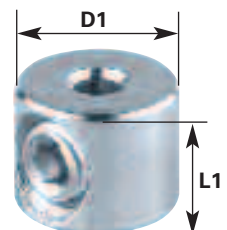
Item no.	Rope ϕ mm	Thread	L1 mm	D1 mm	Price each
1490 3002	2,0	M 12	18	20	Price on enquiry
1490 3003	3,0	M 12	19	20	
1490 3004	4,0	M 12	21	20	
1490 3005	5,0	M 12	23	20	
1490 3006	6,0	M 12	23	20	

Cross clamps can be used to fix two overlapping ropes. Please do not use as rope end connection!



Stopper with Set-Screw, Material 1.4401

Item no.	Rope ϕ mm	Thread	D1 mm	H1 mm	Price each
1470 2424	3 - 4	M 8	15	12	on enquiry
1470 2426	5 - 6	M 10	20	15	on enquiry





Turnbuckles have been proven tensioning elements for decades.

They are preferably used where tension ropes are fitted with eye hooks or shackles and where eye hooks or shackles can be used to attach to the construction.

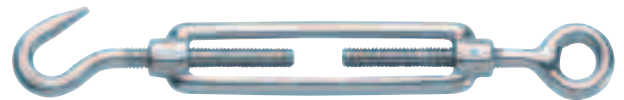


Turnbuckles can be fitted with open hooks or closed eye hooks.

If the rope sling is protected by a thimble, it remains inherently stable!

Turnbuckles Hook/Eye, Material 1.4401

Item no.	Thread	Clamp travel appr. mm	Price each
1481 0005	M 5	90	Price on enquiry
1481 0006	M 6	110	
1481 0008	M 8	140	
1481 0010	M 10	180	
1481 0012	M 12	225	
1481 0016	M 16	230	
1481 0020	M 20	340	



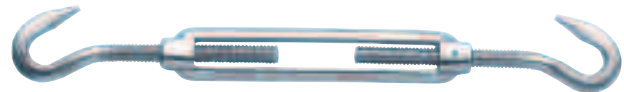
Turnbuckles Eye/Eye, Material 1.4401

Item no.	Thread	Clamp travel appr. mm	Price each
1480 0005	M 5	90	Price on enquiry
1480 0006	M 6	110	
1480 0008	M 8	140	
1480 0010	M 10	180	
1480 0012	M 12	225	
1480 0016	M 16	230	
1480 0020	M 20	340	



Turnbuckles Hook/Hook, Material 1.4401

Item no.	Thread	Clamp travel appr. mm	Price each
1482 0005	M 5	90	Price on enquiry
1482 0006	M 6	110	
1482 0008	M 8	140	
1482 0010	M 10	180	
1482 0012	M 12	225	
1482 0016	M 16	230	
1482 0020	M 20	340	



Rigging Screw, Material 1.4401

Item no.	Thread	Clamp travel appr. mm	Price each
1460 2 .05	M 5	60	Price on enquiry
1460 2 .06	M 6	70	
1460 2 .08	M 8	75	
1460 2 .10	M 10	80	
1460 2 .12	M 12	115	
1460 2 .14	M 14	125	
1460 2 .16	M 16	140	
1460 2 .20	M 20	170	



When selecting the size, the following rule of thumb applies: use two (2) nominal sizes bigger than the tensi-

on rope used.

Example:
Rope diameter 6 mm → turnbuckle M 10.

Please fill-in the gap with your required specification:
0 = 2 Forks, 2 = Thread/Fork, 3 = 2Thread

DoStructa Architecture Ropes

DoStructa



Functionality and aesthetics are the starting point for the application of stainless steel ropes in architecture. The decisive advantage of the stainless steels is corrosion resistance which makes any surface protection superfluous. Maintenance expense is therefore very low and the components remain optically attractive over many years.

The Dolezych programme of stainless steel ropes offers stainless steel ropes and various components for different application areas as for example architecture ropes, ropes for rambling plants in the gardening and landscaping sector or ropes as hand rails or shrouds in the maritime sector.

According to the application area we differentiate between the standard type series ClassicLine, SlimLine S or SlimLine XS. In the case that high breaking forces and a high resistance against tough weather conditions

are demanded the type series ClassicLine will be your first choice. If however the focus lies on interior design an aesthetic aspects it will be the type series SlimLine S and XS that are most suitable due to the much smaller size of their components. We deliver the ropes on request either pre-finished, in fixed or variable sizes or for self-installation.

With a variety of components and connectors you will be able to turn your ideas into reality.

Our Architecture Rope program made from Stainless Steel is divided into the following areas: (see pages 309-343)

Assembled Rigging Ropes

- **ClassicLine**
- **SlimLine S**
- **SlimLine XS**
- **DoActiv**
- **GreenLine**



Rigging Ropes for on-site self-mounting

- **SelfLockingTerminals**



Tubes and Fittings for bannisters and handrails



Architecture Ropes Measurement Points

DoStructa



With wire ropes with thread ends like thread- or female thread terminals we measure „over all“

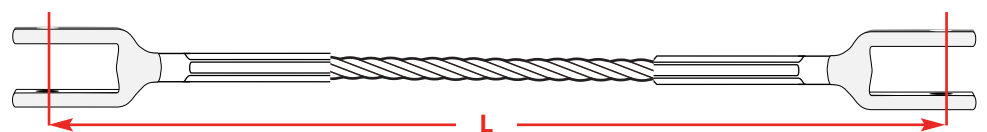
For optical reasons, it is recommended to choose the production length so that the transition from pressed shaft to thread remains in the post of the external thread. Please adjust the boring to any existing key surfaces for the duct post. For the internal thread terminal it must be observed that clamp travel remains within the post.



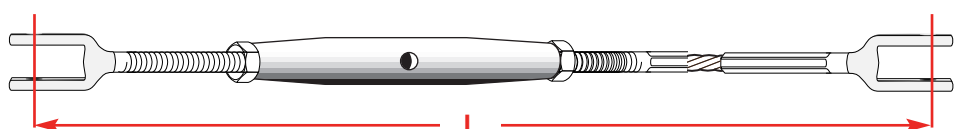
For terminals with bearings such as raised- or countersunk head terminals, the bearing surfaces of the terminals form the measurement points.



Ropes with swage fork terminals and eye terminals are measured from the center of one bolt to the center of the other bolt.



For tension ropes with terminal tensioners, we supply standard threads turned in halfway.



Architecture Ropes

Fixed length,
ready-to-install design

DoStructa
ClassicLine

Application areas:

For fixed overall dimensions, e.g. in machine engineering as control or drag ropes or as stair/railing rope. For the executions with thread terminals, there is a minimum length setting option (see thread dimensions page 312), for open swage sockets and eye terminals, planning must be adhered to precisely.

Order example:

You want to order: 1 unit wire rope Fig. 311, rope \varnothing 2.5 mm. 1 m using length.

Your order is:

1 unit Item no. 2411 0251. 1 m using length.



Wire Ropes fixed length **ClassicLine**

Fig. 311
Thread
Thread



Fig. 312
Thread
Eye



Fig. 313
Thread
Fork



Fig. 314
Eye
Eye

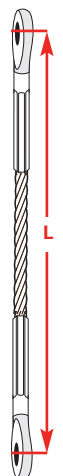


Fig. 315
Fork
Fork



Fig. 316
Thread
Female thread



Fig. 317
Female thread
Female thread

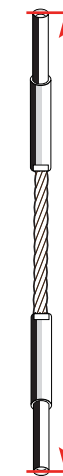
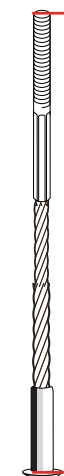


Fig. 318
Thread
Raised head



Rope
nominal
diameter
in
mm

Price 1 meter using length
on enquiry

Price per
each extra m

mm	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.
1,0	2411 0101	-	-	-	-	-	-	-	-
1,5	2411 0151	-	-	-	-	-	-	-	-
2,0	2411 0201	-	-	-	-	-	-	-	-
2,5	2411 0251	2412 0251	2413 0251	2414 0251	2415 0251	-	-	-	-
3,0	2411 0301	2412 0301	2413 0301	2414 0301	2415 0301	2416 0301	2417 0301	2418 0301	-
4,0	2411 0401	2412 0401	2413 0401	2414 0401	2415 0401	2415 0401	2417 0401	2418 0401	-
5,0	2411 0501	2412 0501	2413 0501	2414 0501	2415 0501	2415 0501	2417 0501	2418 0501	-
6,0	2411 0601	2412 0601	2413 0601	2414 0601	2415 0601	2415 0601	2417 0601	2418 0601	-
7,0	2411 0701	2412 0701	2413 0701	2414 0701	2415 0701	-	-	-	-
8,0	2411 0801	2412 0801	2413 0801	2414 0801	2415 0801	2415 0801	2417 0801	-	-
10,0	2411 1001	2412 1001	2413 1001	2414 1001	2415 1001	-	-	-	-
12,0	2411 1201	2412 1201	2413 1201	2414 1201	2415 1201	-	-	-	-
14,0	2411 1401	-	-	-	-	-	-	-	-
16,0	2411 1601	2412 1601	2413 1601	2414 1601	2415 1601	-	-	-	-
18,0	2411 1801	-	-	-	-	-	-	-	-
20,0	2411 2001	2412 2001	2413 2001	2414 2001	2415 2001	-	-	-	-
22,0	2411 2201	2412 2201	2413 2201	2414 2201	2415 2201	-	-	-	-

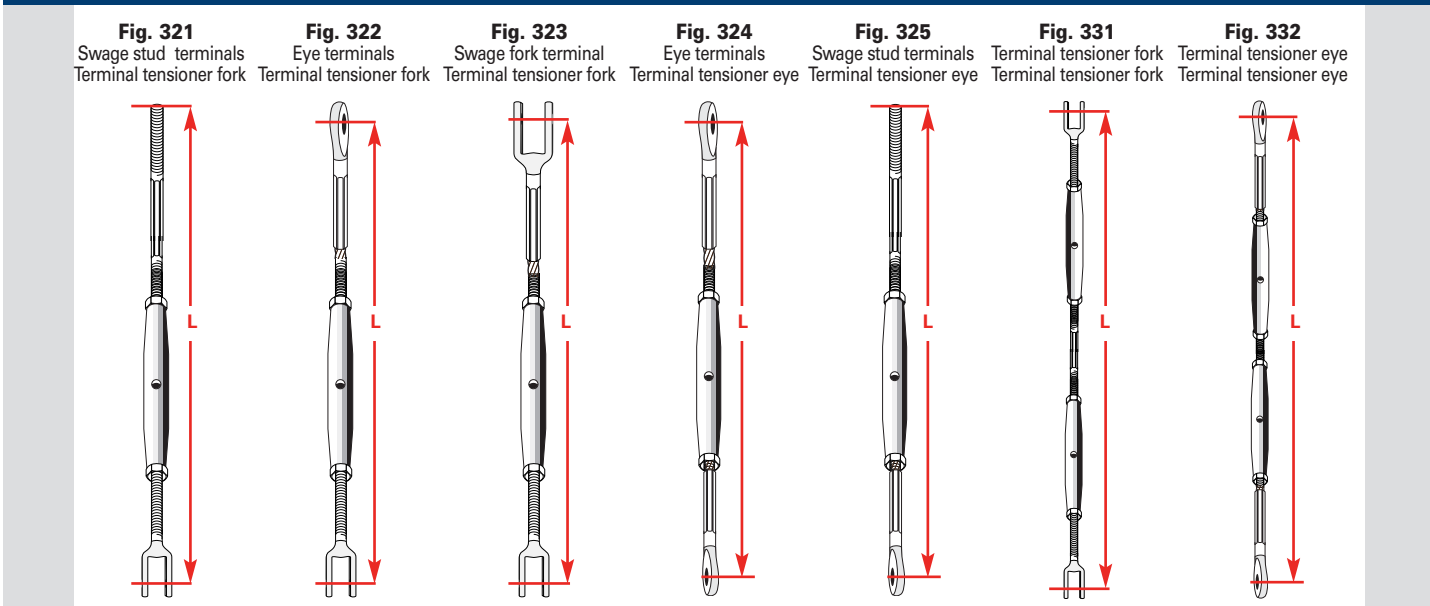
You will find measurements for the components to be used on pages 312-315.



For these adjustable length architectural wire rope combinations, a minimum of rope side is designed with a terminal tensioner. This allows simple pretensioning and re-tensioning of the ropes, if required. Measurement tolerances can be easily balanced.

Please also observe our "measurement points" on page 309 for a unique length determination for fully assembled ropes.

Wire Ropes length adjustable **ClassicLine**



Rope nominal diameter mm	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	Price per extra m
2,5	2421 0251	2422 0251	2423 0251	2424 0251	2425 0251	-	-	Price on enquiry
3,0	2421 0301	2422 0301	2423 0301	2424 0301	2425 0301	2431 0301	2432 0301	
4,0	2421 0401	2422 0401	2423 0401	2424 0401	2425 0401	2431 0401	2432 0401	
5,0	2421 0501	2422 0501	2423 0501	2424 0501	2425 0501	2431 0501	2432 0501	
6,0	2421 0601	2422 0601	2423 0601	2424 0601	2425 0601	2431 0601	2432 0601	
7,0	2421 0701	2422 0701	2423 0701	2424 0701	2425 0701	-	-	
8,0	2421 0801	2422 0801	2423 0801	2424 0801	2425 0801	2431 0801	2432 0801	
10,0	2421 1001	2422 1001	2423 1001	2424 1001	2425 1001	-	-	
12,0	2421 1201	2422 1201	-	2424 1201	2425 1201	-	-	
14,0	2421 1401	-	-	-	2425 1401	-	-	
16,0	2421 1601	2422 1601	2423 1601	2424 1601	2425 1601	-	-	

Price 1 Meter using length **on enquiry**

Order example:

You want to order:

1 unit architectural wire rope Fig. 321, rope \varnothing 2.5 mm, 1 m using length.

Your order is:

1 unit Item no. 2421 0251, 1 m using length

For measurements for components to be used please refer to pages 312-315.

By standard we use these rope types, see also page 312-315.

• Rope \varnothing 1-3 mm DoVier 119

- Rope \varnothing 4-6 mm DoVier 707
- Rope \varnothing 7-16 mm DoVier 719
- Rope \varnothing >18 mm DoVier 736

Components

DoStructa
ClassicLine

Simple assembly – adjustable in length

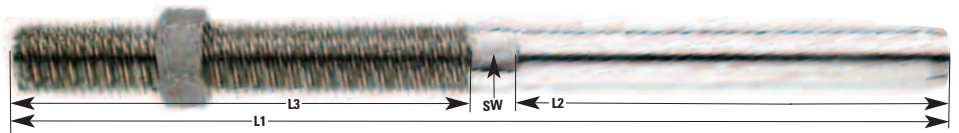


For dimensioning the assembled ropes, the L measured „over all“! (total length, including terminals, see also page 309.)

Swage stud terminals are the ideal end connection for rigging between posts (e.g. stair railings). The boring in the posts must be dimensioned so that the thickest position on the swage stud terminal – the dent of the key area – can be directed through the boring.

Assembled architectural wire ropes with swage stud terminals in the **ClassicLine** standard dimensions (thread thickness = double rope diameter) achieve high breaking capacities of approx. 85 % of the non- assembled rope in tearing tests.

Particularly for indoor use, swage stud terminals with smaller dimensions are often used for aesthetical reasons. The rope diameter/thread thickness ratio is reduced to values around 1:1.3 for **DoStructa SlimLine S**, see pages 320-323; to 1:1.25 for **DoStructa SlimLine XS**, see pages 288-289. When using these thin terminals, the breaking capacities are about 50 % of the rope breaking capacity.



Swage Stud Terminal

Item no.	Breaking capacity class	Thread	Direction	Rope ø mm	SW mm	L1 mm	L2 mm	L3 mm	Price
1470 0104	85 %	M 4	right	1,0	-	35	10	20	Price on enquiry
1470 0155	85 %	M 5	right	1,5	-	75	40	30	
9470 0155	85 %	M 5	left	1,5	-	75	40	30	
1470 1001	85 %	M 5	right	2,0	4	72	23	38	
1470 1002	85 %	M 5	right	2,5	4	87	32	42	
9470 1002	85 %	M 5	left	2,5	4	87	32	42	
1470 1003	85 %	M 6	right	3,0	4	100	38	48	
9470 1003	85 %	M 6	left	3,0	4	100	38	48	
1470 1004	85 %	M 8	right	4,0	5	117	45	57	
9470 1004	85 %	M 8	left	4,0	5	117	45	57	
1470 1005	85 %	M 10	right	5,0	6	130	51	63	
9470 1005	85 %	M 10	left	5,0	6	130	51	63	
1470 1006	85 %	M 12	right	6,0	6	162	64	80	
9470 1006	85 %	M 12	left	6,0	6	162	64	80	
1470 1007	85 %	M 14	right	7,0	8	180	70	89	
9470 1007	85 %	M 14	left	7,0	8	180	70	89	
1470 1008	85 %	M 16	right	8,0	7	203	83	100	
9470 1008	85 %	M 16	left	8,0	7	203	83	100	
1470 1010	85 %	M 20	right	10,0	10	230	89	120	
9470 1010	85 %	M 20	left	10,0	10	230	89	120	
1470 1012	85 %	M 20	right	12,0	10	245	105	120	
9470 1012	85 %	M 20	left	12,0	10	245	105	120	
1470 1013	85 %	M 22	right	14,0	-	295	140	135	
1470 1624	85 %	M 24	right	16,0	15	320	150	155	
1470 1120	85 %	M 30	right	20,0	-	330	150	150	
1470 2233	85 %	M 33	right	22,0	-	475	240	200	



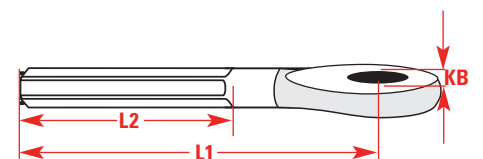
Fully assembled design!

Eye terminals and swage fork terminals are the favourite connecting elements for connecting to fork connections or straps available on-site. Coupling to the component through a simple bolt connection is possible without using many tools. These bolt connections allow variable angles.



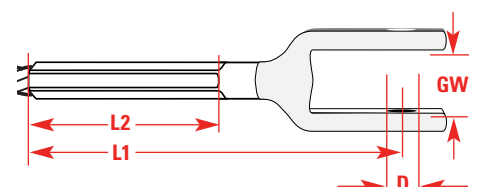
Swage Terminals

Item no.	Rope ø mm	L1 mm	L2 mm	KB mm	Price
1470 2002	2,5	49	32	5,5	Price on enquiry
1470 2003	3,0	55	38	6,5	
1470 2004	4,0	63	45	8,5	
1470 2005	5,0	73	51	10,2	
1470 2006	6,0	95	64	13,0	
1470 2008	8,0	117	83	14,3	
1470 2010	10,0	140	89	20,0	
1470 2012	12,0	190	110	19,3	
1470 2016	16,0	240	160	25,0	
1470 2019	19,0	318	220	29,0	
1470 2022	22,0	357	244	31,8	
1470 2026	26,0	427	305	35,0	



Swage Fork Terminal

Item no.	Rope ø mm	L1 mm	L2 mm	GW mm	D mm	Price
1470 3002	2,5	58	32	8	5	Price on enquiry
1470 3003	3,0	65	38	8	6	
1470 3004	4,0	73	45	11	8	
1470 3005	5,0	84	51	12	10	
1470 3006	6,0	102	64	14	12	
1470 3008	8,0	122	76	15	12	
1470 3010	10,0	151	89	26	19	
1470 3012	12,0	198	105	23	19	
1470 3014	14,0	245	140	30	19	
1470 3016	16,0	260	160	28	25	
1470 3019	19,0	345	220	28	285	
1470 3022	22,0	408	244	35	349	
1470 3026	26,0	462	305	35	349	



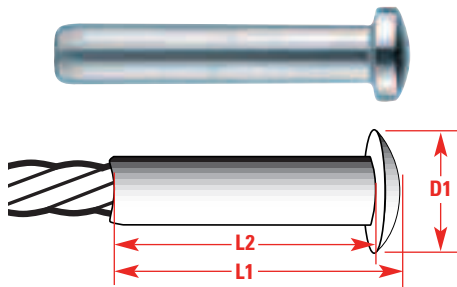
Components

DoStructa
ClassicLine

If the angles are right-angled (90 degrees), dome head terminals form a nicer finish. It must be observed here that they can be used only on one side, due to their shape. A thread terminal is usually mounted to the other side which is pushed through the posts and tightened with a bolt.

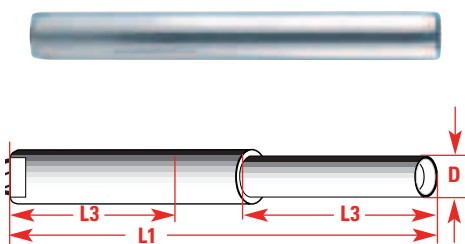


Dome Head-Terminals



Item no.	Rope ø mm	L1 mm	L2 mm	D1 mm	Price
1470 8003	3,0	32	30	8,4	Price on enquiry
1470 8004	4,0	37	32	12,5	
1470 8005	5,0	43,5	38	16	
1470 8006	6,0	52	47	9	

Female Thread-Terminals



Item no.	Breaking load class	Thread	Rich- tung	Rope ø mm	L1 mm	L3 mm	D mm	Price
1471 9905	50-75 %	M 5	rechts	3,0	75	20	6,3	Price on enquiry
9471 9905	50-75 %	M 5	links	3,0	75	20	6,3	
1471 9916	50-75 %	M 6	rechts	4,0	100	30	8,0	
9471 9916	50-75 %	M 6	links	4,0	100	30	8,0	
1471 9908	50-75 %	M 8	rechts	5,0	100	40	12,0	
9471 9908	50-75 %	M 8	links	5,0	100	40	12,0	
1471 9928	50-75 %	M 8	rechts	6,0	130	40	10,0	
9471 9928	50-75 %	M 8	links	6,0	130	40	10,0	
1471 9910	50-75 %	M 10	rechts	8,0	180	50	14,0	
9471 9910	50-75 %	M 10	links	8,0	180	50	14,0	

Another variant for right-angled post connection are female thread terminals. With this solution, two ropes running

through the thread rod can be aesthetically pleasingly connected to one another. To this end, they are mounted at

the end post using screws which can be cylinder head, raised head or counter-sunk head screws as desired.



To get the right pre-tension

By using terminal tensioners, diagonal compounds can be formed in a perfect way. The most intelligent solution is the direct transition from rope to thread terminal which is screwed directly into the threaded terminal rigging sleeve.

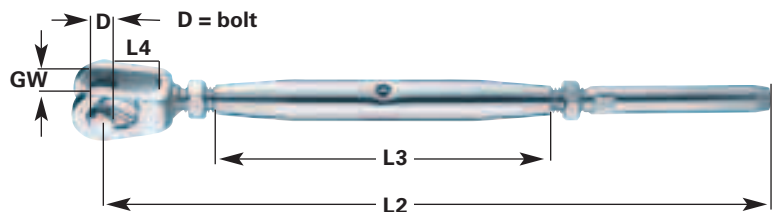
This means that thimbles and pressed clamps which would be necessary when using terminal tensioners with forks on both sides can be left out. If the rope is connected to a tap (eye hook), please select the terminal tensioner with a fork end.

If there is a fork connection on the fitting construction, use the terminal tensioner with eye end. The eye end can also be bolted lying down flat on the structure.

Swage fork terminal and fork tensioners are best suited for diagonale wire!

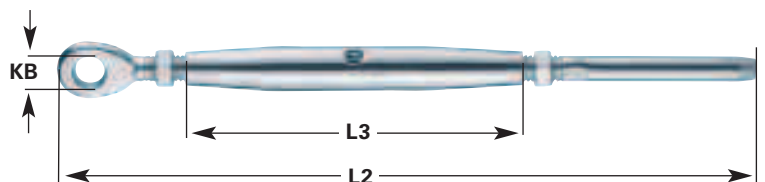
Terminal Tensioner Fork/Thread

Item no.	Thread	Rope ø mm	L2 closed	L3 mm	L4 mm	GW mm	D mm	Price
1460 2125	M 5	2,5	155	80	9,5	8	5,0	Price on enquiry
1460 2135	M 5	3,0	135	50	9,5	8	5,0	
1460 2145	M 5	4,0	135	50	9,5	8	5,0	
1460 2136	M 6	3,0	170	90	9,5	8	6,0	
1460 2146	M 6	4,0	170	90	9,5	8	6,0	
1460 2108	M 8	4,0	200	110	12,0	11	8,0	
1460 2210	M10	5,0	230	120	14,0	12	10,0	
1460 2112	M12	6,0	285	150	19,0	14	12,0	
1460 2116	M16	8,0	355	190	27,0	22	16,0	
1460 2120	M20	10,0	435	220	32,0	26	19,0	
1460 2124	M24	16,0	440	300	35,0	23	25,0	



Terminal Tensioner Eye/Thread

Item no.	Thread	Rope ø mm	L2 geschl.	L3 mm	KB mm	Price
1460 2425	M 5	2,5	155	80	5,5	Price on enquiry
1460 2435	M 5	3,0	135	50	5,5	
1460 2445	M 5	4,0	135	50	5,5	
1460 2436	M 6	3,0	170	90	6,6	
1460 2446	M 6	4,0	170	90	6,6	
1460 2408	M 8	4,0	200	110	8,5	
1460 2410	M10	5,0	230	120	10,5	
1460 2412	M12	6,0	285	150	12,5	
1460 2416	M16	8,0	355	190	14,5	
1460 2420	M20	10,0	435	220	19,5	



Architectural Ropes

Fixed length,
ready-to-install design

DoStructa SlimLine S

For fully assembled architecture ropes with **SlimLine S**-terminals, a reduction of the system breaking load must be observed due to the low wall thicknesses of the components. **SlimLine S** has a breaking load class of 50 %, i.e. the minimum breaking load of the assembled rope system is 50 % of the minimum breaking load of the rope used (see page 301)

Application areas: Due to the reduced minimum breaking load, aesthetic aspects are the focus using **SlimLine S** and **SlimLine XS** (with even smaller construction dimensions, see page 320 et seq.)

If functional aspects, i.e. high breaking load are the focus, **DoStructa ClassicLine** is the right choice.



Wire ropes fixed length **SlimLine S**

By default,
we use
these rope
types,
see also
page 301.

Rope \varnothing 1-3 mm
DoVier 119

Rope \varnothing 4-6 mm
DoVier 707

Rope \varnothing 7-16 mm
DoVier 719

Rope \varnothing >18 mm
DoVier 736

Fig. 311
Thread/
Thread



Fig. 312
Thread/
Eye



Fig. 313
Thread/
Fork



Fig. 314
Eye/
Eye



Fig. 315
Fork/
Fork



Fig. 319
Thread/
countersunk head



Rope nominal
diameter

Price 1 Meter using length
on enquiry

Price per
extra m

mm	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	Price on enquiry
3,0	7411 0301	7412 0301	7413 0301	7414 0301	7415 0301	7419 0301	Price on enquiry
4,0	7411 0401	7412 0401	7413 0401	7414 0401	7415 0401	7419 0401	
5,0	7411 0501	7412 0501	7413 0501	7414 0501	7415 0501	7419 0501	
6,0	7411 0601	7412 0601	7413 0601	7414 0601	7415 0601	7419 0601	



Architectural ropes

Adjustable length,
Pre-finished fitted

DoStructa
SlimLine S

These eye- and fork terminals are also deliberately small in their dimensions. Different large angles are also realizable in this construction type by bolts as a flexible supporting points. The countersunk head terminals have low external dimensions as well. But in this case only a right-angled connection with a post is possible.



Please also pay attention to our hints relating to the appraisal of the correct fitting length on page 309 "measuring points".

Tension ropes adjustable to length **SlimLine S**

Nom. rope diameter mm	Price for 1 metre using length on enquiry							Price extra m
	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	
3,0	7421 0301	7422 0301	7423 0301	7424 0301	7425 0301	7431 0301	7432 0301	Price on enquiry
4,0	7421 0401	7422 0401	7423 0401	7424 0401	7425 0401	7431 0401	7432 0401	
5,0	7421 0501	7422 0501	7423 0501	7424 0501	7425 0501	7431 0501	7432 0501	
6,0	7421 0601	7422 0601	7423 0601	7424 0601	7425 0601	7431 0601	7432 0601	

Architectural ropes

Components

DoStructa SlimLine S

These eye- and fork terminals are also deliberately small in their dimensions. Different large angles are also realizable in this construction type by bolts as a flexible supporting points. The countersunk head terminals have low external dimensions as well. But in this case only a right-angled connection with a post is possible.

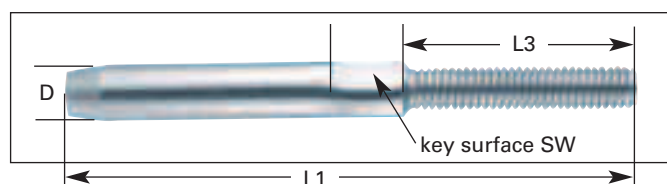


Please also pay attention to our hints relating to the appraisal of the correct fitting length on page 309 "measuring points".



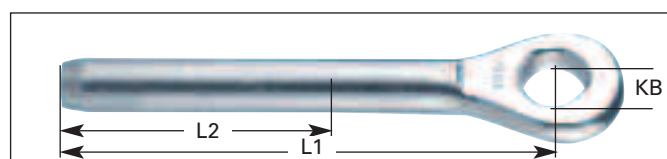
Thread Terminals S with Key Surface

Item no.	Thread	Direction	Rope ø mm	SW mm	L1 mm	L3 mm	D mm	Price
1470 1805	M 5	right	3,0	5	60	30	6,3	Price on enquiry
9470 1805	M 5	left	3,0	5	60	30	6,3	
1473 0406	M 6	right	4,0	6	68	30	7,5	
9473 0406	M 6	left	4,0	6	68	30	7,5	
1473 1508	M 8	right	5,0	7	90	30	9,0	
9473 1508	M 8	left	5,0	7	90	30	9,0	
1470 0610	M 10	right	6,0	10	100	30	10,0	
9470 0610	M 10	left	6,0	10	100	30	10,0	



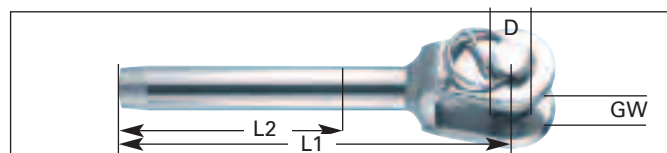
Eye Terminals S

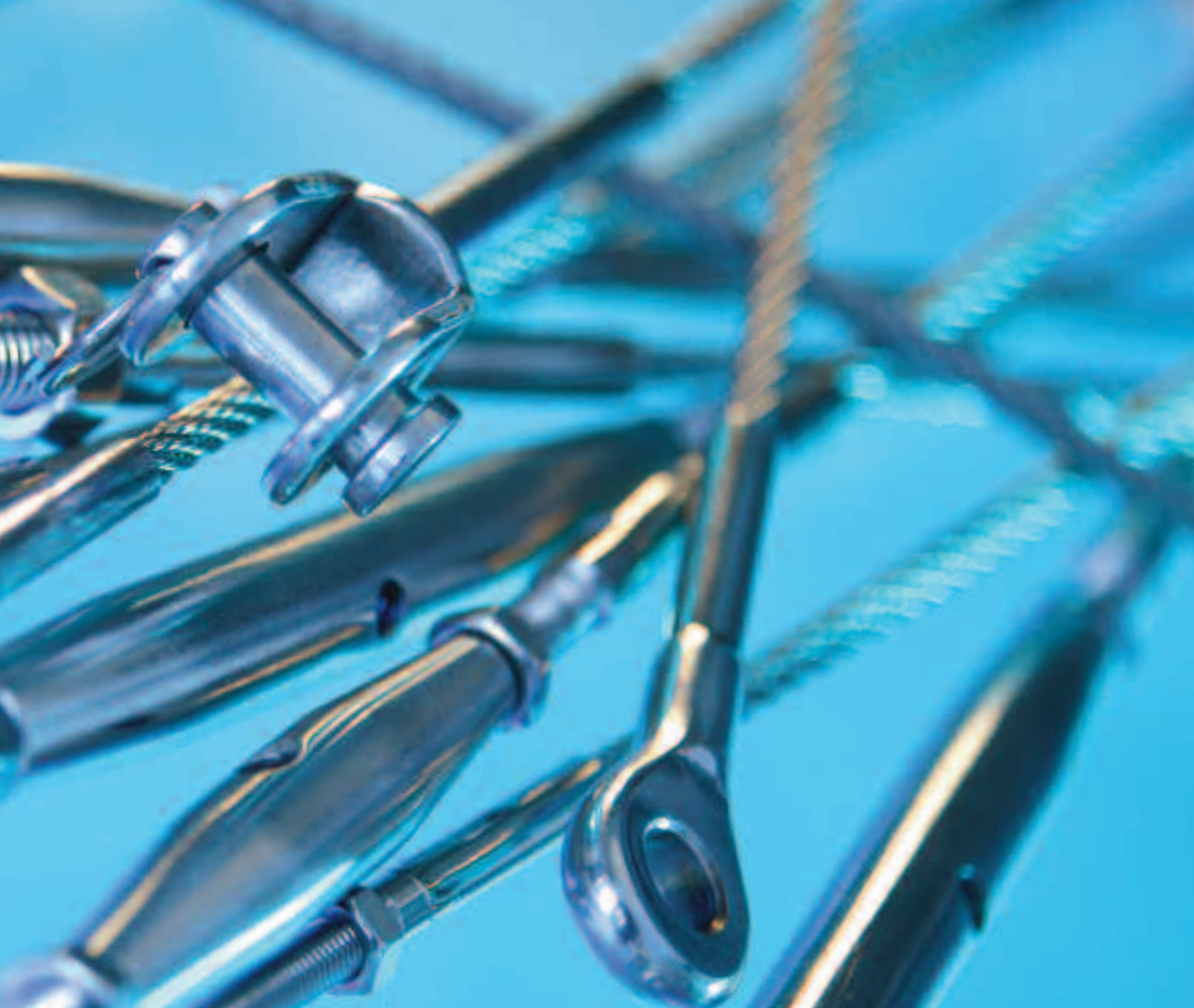
Item no.	Rope ø mm	L1 mm	L2 mm	KB mm	Price
1473 2003	3,0	40	18	6,5	Price on enquiry
1473 2004	4,0	52	24	8,5	
1473 2005	5,0	62	30	9,5	
1473 2006	6,0	75	36	13,0	



Swage Fork Terminal S

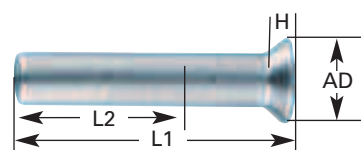
Item no.	Rope ø mm	L1 mm	L2 mm	GW mm	D mm	Price
1473 3003	3,0	56	27	7	5	Price on enquiry
1473 3004	4,0	64	35	8	6	
1473 3005	5,0	71	40	11	8	
1473 3006	6,0	86	50	12	9	





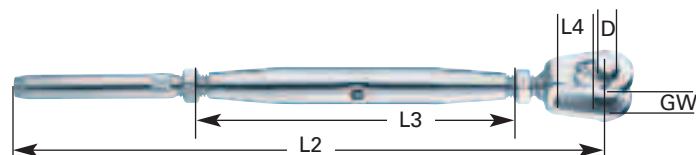
Countersunk head terminals S

Item no.	rope ϕ mm	L1 mm	L2 mm	AD mm	H mm	Price
1473 9003	3,0	34	27	8,0	2	Price on enquiry
1473 9004	4,0	43	35	9,5	2	
1473 9005	5,0	50	40	13,0	3	
1473 9006	6,0	64	50	16,5	3	



Terminal tensioners fork/thread S

Item no.	thread	rope ϕ mm	L2 mm	L3 mm	L4 mm	GW mm	D mm	Price
7460 2135	M 5	3,0	107	50	8	7	5,0	Price on enquiry
7460 2146	M 6	4,0	133	50	8	8	6,0	
7460 2108	M 8	5,0	142	60	11	11	8,0	
7460 2110	M 10	6,0	190	80	13	12	9,0	



Terminal tensioners eye/thread S

Item no.	thread	rope ϕ mm	L2 mm	L3 mm	KB mm	Price
7460 2435	M 5	3,0	111	50	5,5	Price on enquiry
7460 2446	M 6	4,0	130	60	6,5	
7460 2408	M 8	5,0	139	60	8,5	
7460 2410	M 10	6,0	181	80	10,5	



By default, we use these rope types.
See also on page 301.

- Rope ϕ 1-3mm DoVier 119
- Rope ϕ 4-6mm DoVier 707

- Rope ϕ 7-16mm DoVier 719
- Rope ϕ >18mm DoVier 736

Architectural ropes

Fixed length
Pre-finished, fitted

length adjustable
Pre-finished fitted

DoStructa
SlimLine XS

The minimal breaking strength of the fitted rope system is 50 percent of the minimal tensile strength of the used rope and this is also true for the **SlimLine XS** construction parts.

The **SlimLine XS** is therefore predominantly used in Interior Architecture and for applications that are aesthetically determined.



Stainless steel architectural wire rope fixed length **SlimLine XS**

fig. 311
thread /
thread

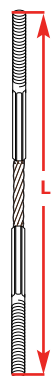


fig. 312
thread /
eye



fig. 313
thread /
fork



fig. 314
eye
eye

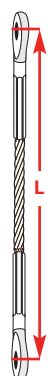


fig. 315
fork
fork



fig. 316
thread /
interior thread

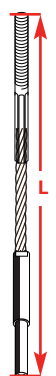


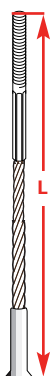
fig. 317
interior thread
interior thread



fig. 318
thread /
dome head fitting



fig. 319
thread / counter-
thread / sunk head



Nom. rope diameter	Price for 1 metre using length on enquiry									Price on enquiry
	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	Item no.	
3,0	8411 0301	8412 0301	8413 0301	8414 0301	8415 0301	8416 0301	8417 0301	8418 0301	8419 0301	Price on enquiry
4,0	8411 0401	8412 0401	8413 0401	8414 0401	8415 0401	8416 0401	8417 0401	8418 0401	8419 0401	
5,0	8411 0501	8412 0501	8413 0501	8414 0501	8415 0501	8416 0501	8417 0501	8418 0501	8419 0501	
6,0	8411 0601	8412 0601	8413 0601	8414 0601	8415 0601	8416 0601	8417 0601	8418 0601	8419 0601	



Stainless steel architectural wire rope, length adjustable SlimLine XS

By default, we use rope types. See also on page 301.

- Rope ø 1-3mm DoVier 119
- Rope ø 4-6mm DoVier 707
- Rope ø 7-16mm DoVier 719
- Rope ø >18mm DoVier 736

fig. 321
thread terminal
fork tensioner

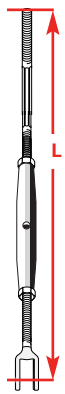


fig. 322
eye terminal
fork tensioner



fig. 323
fork terminal
fork tensioner



fig. 331
fork tensioner
fork tensioner



Nom.
rope
diameter
mm

Price for 1 metre using length
on enquiry

Price per
extra m

Nom. rope diameter mm	Item no.	Item no.	Item no.	Item no.	Price on enquiry
3,0	8421 0301	8422 0301	8423 0301	8424 0301	Price on enquiry
4,0	8421 0401	8422 0401	8423 0401	8424 0401	
5,0	8421 0501	8422 0501	8423 0501	8424 0501	
6,0	8421 0601	8422 0601	8423 0601	8424 0601	

Architectural ropes

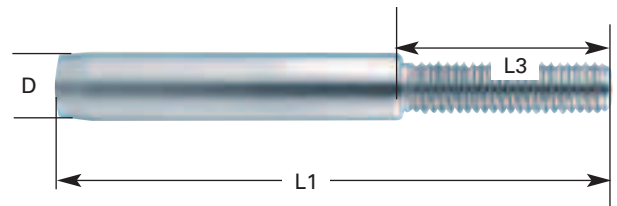
Components

DoStructa
SlimLine XS



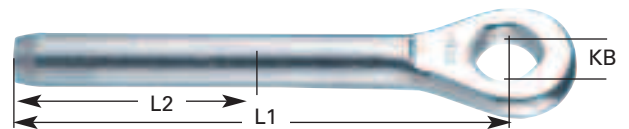
Thread socket XS

Item no.	thread	direction	rope ϕ mm	SW	L1 mm	L3 mm	D mm	Price
1473 2305	M 4	right	3,0	-	45	20	5,4	Price on enquiry
9473 2305	M 4	left	3,0	-	45	20	5,4	
1473 2406	M 5	right	4,0	-	52	22	6,3	
9473 2406	M 5	left	4,0	-	52	22	6,3	
1473 2506	M 6	right	5,0	-	63	25	7,5	
9473 2506	M 6	left	5,0	-	63	25	7,5	
1473 2610	M 8	right	6,0	-	68	30	9,0	
9473 2610	M 8	left	6,0	-	68	30	9,0	



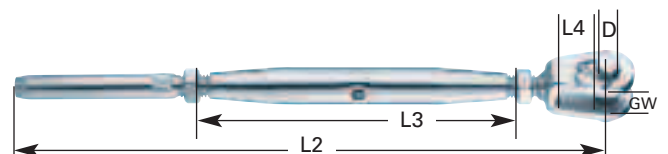
Eye terminals XS

Item no.	rope ϕ mm	L1 mm	L2 mm	KB mm	Price
1473 2003	3,0	40	18	6,5	Price on enquiry
1473 2004	4,0	52	24	8,5	
1473 2005	5,0	62	30	9,5	
1473 2006	6,0	75	36	13,0	



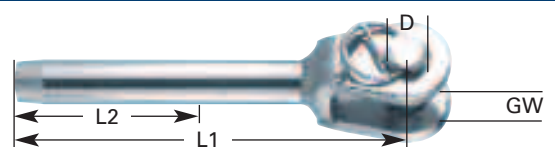
Rigging screw fork / threads XS

Item no.	rope ϕ mm	L2 mm	L3 mm	L4 mm	GW mm	D mm	Price
7460 2635	3,0	88	40	9	7	5,0	Price on enquiry
7460 2646	4,0	102	50	9	7	5,0	
7460 2608	5,0	118	60	8	8	6,0	
7460 2610	6,0	130	60	11	11	8,0	



Fork terminal XS

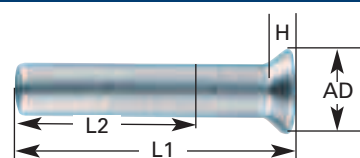
Item no.	rope ϕ mm	L1 mm	L2 mm	GW mm	D mm	Price
1473 3103	3,0	45	20	7,5	5,0	Price on enquiry
1473 3104	4,0	45	22	7,5	5,0	
1473 3105	5,0	52	25	10,0	6,0	
1473 3106	6,0	58	30	11,0	8,0	





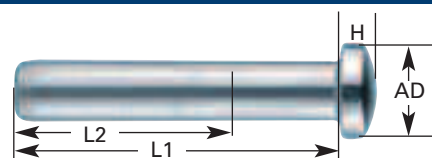
Countersunk head terminals XS

Item no.	rope ϕ mm	L1 mm	L2 mm	AD mm	H mm	Price
1473 9103	3,0	27,0	20	8,7	2,0	Price on enquiry
1473 9104	4,0	29,0	22	10,9	2,5	
1473 9105	5,0	32,5	25	12,5	3,0	
1473 9106	6,0	38,0	30	15,0	4,0	



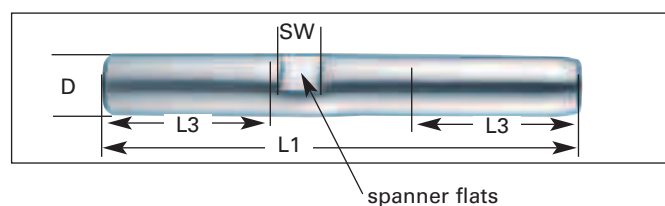
Dome head terminals XS

Item no.	rope ϕ mm	L1 mm	L2 mm	AD mm	H mm	Price
1473 8003	3,0	26,6	20	8,7	1,7	Price on enquiry
1473 8004	4,0	29,2	22	10,9	2,2	
1473 8005	5,0	32,5	25	12,5	2,5	
1473 8006	6,0	38,0	30	15,0	3,0	



Interior thread socket XS with spanner flats

Item no.	threads-	direction	rope ϕ mm	SW mm	L1 mm	L3 mm	D mm	Price
1473 5305	M 5	right	3,0	5	54	27	6,2	Price on enquiry
9473 5305	M 5	left	3,0	5	54	27	6,2	
1473 5406	M 6	right	4,0	6	62	35	7,4	
9473 5406	M 6	left	4,0	6	62	35	7,4	
1473 5506	M 6	right	5,0	7	67	40	7,4	
9473 5506	M 6	left	5,0	7	67	40	7,4	
1473 5608	M 8	right	6,0	10	82	50	9,0	
9473 5608	M 8	left	6,0	10	82	50	9,0	
1473 5810	M 10	right	8,0	14	106	60	12,6	
9473 5810	M 10	left	8,0	14	106	60	12,6	



Architectural ropes

DoActiv – pre-finished fitted

DoStructa



What is a Do-Activ terminal?

An open rotary screw sleeve with interior or exterior thread on the tension rope. And it is this rotability on the rope that is also the big advantage compared to thread socket of the conventional construction form. For example, when using DoActiv terminals it is possible to use wire ropes between two posts without contorting the rope.

DoActiv terminals can be combined with custom connection elements in an excellent way. Thread forks, thread eyes, thread bars or screws with totally different head forms can be used for the terminals with interior threads.

DoActiv terminals with exterior threads can excellently and directly be turned into studs or machine-cut threads in tube constructions.

In connection with a cap nut that has to be beaded on the rope, a shapely end connection can be attained.

The remaining head space between the connection element and the outside edge of the DoActiv terminal can optionally be covered with a DoActiv lifting.

Fig. 411

2x interior threads

Fig. 412

2x exterior threads

Fig. 413

2x interior thread with terminal sleeve

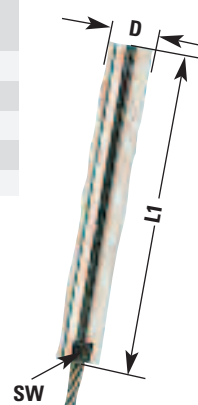
rope nominal diameter mm	Item no.	Item no.	Item no.	Price extra m
3,0	3411 0301	3412 0301	3413 0301	Price on enquiry
4,0	3411 0401	3412 0401	3413 0401	
5,0	3411 0501	3412 0501	3413 0501	
6,0	3411 0601	3412 0601	3413 0601	
8,0	3411 0801	3412 0801	3413 0801	

price per 1m using length on enquiry

Measurements of parts

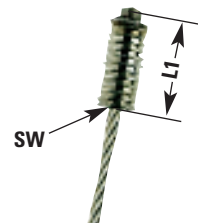
DoActiv terminals with interior threads

Item no.	direction	rope ϕ mm	SW mm	L1 mm	D mm	thread
3411 0301	right	3,0	9	60	10	M 6
3411 0401	right	4,0	10	70	12	M 8
3411 0501	right	5,0	13	80	15	M 8
3411 0601	right	6,0	17	100	18	M 12
3411 0801	right	8,0	19	125	22	M 16



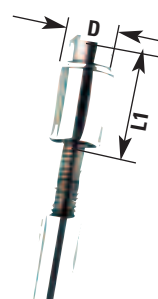
DoActiv terminals with exterior threads

Item no.	direction	rope ϕ mm	SW mm	L1 mm	thread
3451 0301	rechts	3,0	8	60	M 10
3451 0401	rechts	4,0	10	70	M 12
3451 0501	rechts	5,0	13	80	M 16
3451 0601	rechts	6,0	17	100	M 20
3451 0801	rechts	8,0	19	125	M 24



DoActiv terminal sleeve

Item no.	L1 mm	D mm
1492 1206	20	12
1492 1508	20	15
1492 1810	25	18
1492 2012	30	20
1492 2414	30	24





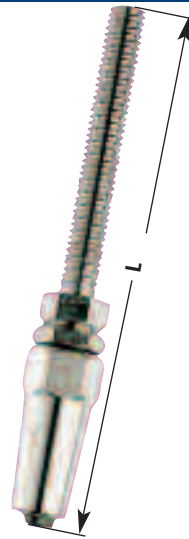
Self-locking terminals

On-site mounting

DoStructa

Thread socket

Item no.	for rope ϕ mm	thread	length of thread mm	total length mm	price each
1490 9246	4	M 6 right	47	92	Price on enquiry
9490 9246	4	M 6 left	47	92	
1490 9248	4	M 8 right	57	102	
9490 9248	4	M 8 left	57	102	
1490 9258	5	M 8 right	57	111	
9490 9258	5	M 8 left	57	111	
1490 9250	5	M 10 right	63	117	
9490 9250	5	M 10 left	63	117	
1490 9260	6	M 10 right	63	128	
9490 9260	6	M 10 left	63	128	
1490 9262	6	M 12 right	80	145	
9490 9262	6	M 12 left	80	145	
1490 9282	8	M 12 right	80	162	
9490 9282	8	M 12 left	80	162	
1490 9284	8	M 14 right	89	171	
9490 9284	8	M 14 left	89	171	
1490 9286	8	M 16 right	100	182	
9490 9286	8	M 16 left	100	182	
1490 9206	10	M 16 right	100	188	
9490 9206	10	M 16 left	100	188	

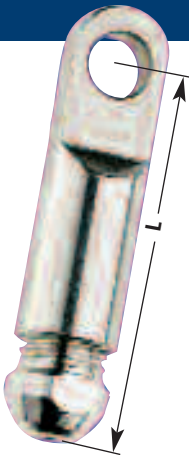


Self-locking terminals

are an innovative line of products that enable the user to achieve on-site mounting without any special tools. Self-locking terminals are suitable for the rope construction of spiral rope DoVier 119, round braid ropes DoVier 707 and DoVier 719. Even the connection with steel bar is possible. Self-locking terminals are available in various terminal versions such as thread, fork and eye terminals.

Eye terminal

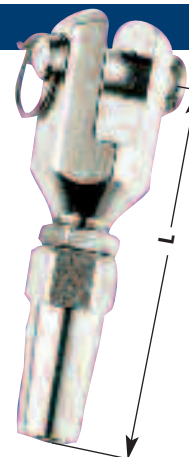
Item no.	for rope ϕ mm	eye drilling mm	total length mm	price each
1490 9004	4	8,3	58	Price on enquiry
1490 9005	5	10,3	70	
1490 9006	6	12,3	83	
1490 9008	8	14,3	103	
1490 9010	10	16,3	114	



Mounting instruction: Push the conus nut over the rope. Then push the conus over the rope. Put the brass ring over the end of the rope. Make sure that the rope projects 5 mm longer. Then push the conus nut over the conus. Screw the head part tightly on the conus nut. After that, tighten the counter nut with the connection. If you have got some experience, it may be possible for you to realize the mounting of the self-locking terminals in less than ten seconds.

Fork terminal

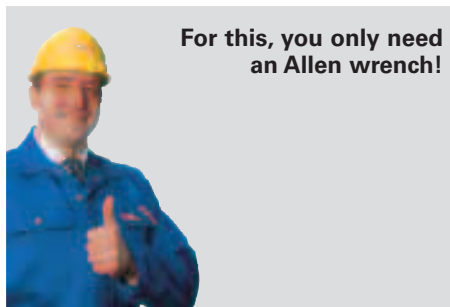
Item no.	for rope ϕ mm	fork bolt mm	interior fork amplitude mm	clear height mm	total length mm	price each
1490 9104	4	8	8	8	62	Price on enquiry
1490 9105	5	10	10	10	72	
1490 9106	6	12	12	12	82	
1490 9108	8	14	14	14	103	
1490 9110	10	16	16	16	115	



Screwable terminals

On-site mounting

DoStructa



For this, you only need an Allen wrench!

Thread socket

Item no.	for rope ø mm	thread	length of the thread mm	total length mm	price each
1470 2542	2	M 4 right	20	50	Price on enquiry
9470 2542	2	M 4 left	20	50	
1470 2543	3	M 4 right	20	56	
9470 2543	3	M 4 left	20	56	
1470 2554	4	M 5 right	25	65	
9470 2554	4	M 5 left	25	65	
1470 2546	3+4	M 6 right	25	70	
9470 2556	5	M 6 left	25	70	



Advantages:

Even the screwable terminals presented in this chapter are excellently suitable for on-site mounting. They are particularly useful there, where the system breaking load does not play any important role, because the maximum breaking load is not the same as those of pressed terminals. Suitable rope constructions are DoVier 707 and DoVier 719. The available versions are thread socket with exterior and interior threads, eye terminals and fork terminas.

Interior thread terminals

Item no.	for rope ø mm	thread	length of the thread mm	total length mm	price each
1470 2562	2	M 4 right	20	50	Price on enquiry
9470 2562	2	M 4 left	20	50	
1470 2563	3	M 4 right	20	56	
9470 2563	3	M 4 left	20	56	
1470 2574	4	M 5 right	25	65	
9470 2574	4	M 5 left	25	65	
1470 2564	3+4	M 6 right	25	70	
1470 2565	5+6	M 6 right	25	70	



Eye terminals

Item no.	for rope ø mm	eye drilling mm	total length mm	price each
1470 2512	2	4,5	37	Price on enquiry
1470 2513	3	5,5	43	
1470 2514	4	6,5	52	



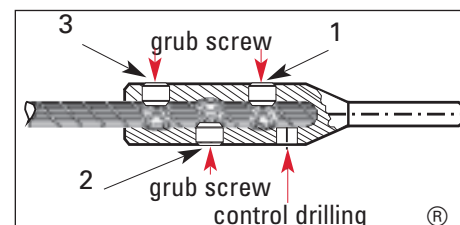
Fork terminal

Item no.	for rope ø mm	fork bolt mm	interior fork amplitude mm	clear height mm	total length mm	price each
1470 2522	2	M 4	4,5	7	37	Price on enquiry
1470 2523	3	M 4	5,5	9	50	
1470 2524	4	M 5	6,5	9	52	



Mounting instruction:

Insert the end of the rope into the shaft of the terminal as far as to the point where it becomes visible in the control drilling. Tighten the grub screws in sequential order 1, 2 and 3. We recommend 5 Nm as a starting torque. Do not forget to check the correct hub of the end of the rope in the control drilling.



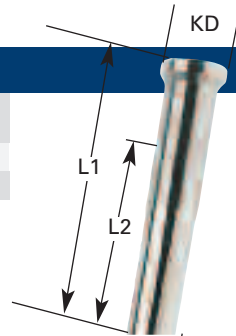


Components screwable

DoStructa

Dome head fitting with interior threads

Item no.	thread	L1 mm	L2 mm	KD mm	price each
1496 0100	M 5 right	37	30	12	on enquiry
9496 0100	M 5 left	37	30	12	on enquiry



Where short length adjustments are enough, screwable components with interior or exterior threads are particularly well suited.

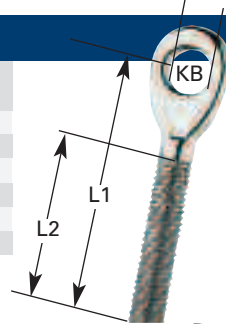
If the rope is provided with an exterior thread terminal, the interior thread components with ball heads or architectural rope end fittings can be used in the construction, if there is a pass-through hole. If a mounting link is to be attached, eye fittings or fork terminal with interior threads are available.

When mounting, please pay attention to the fact that you have to tension half a thread pitch in order to align mounting links and forks.

The same is valid for the reverse version: ropes with an interior thread terminal, eye fittings or fork terminal with exterior threads.

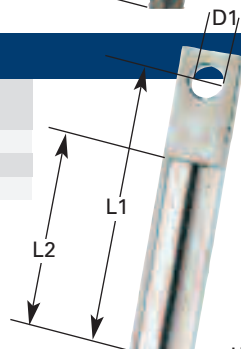
Eye fittings with exterior threads

Item no.	thread	L1 mm	L2 mm	KB mm	price each
1470 2995	M 5	60	40	5,5	Price on enquiry
1470 2996	M 6	60	42	6,6	
1470 2998	M 8	70	45	8,5	
1470 2990	M 10	85	60	10,5	
1470 2992	M 12	100	70	12,5	
1470 2994	M 24	180	140	26,0	



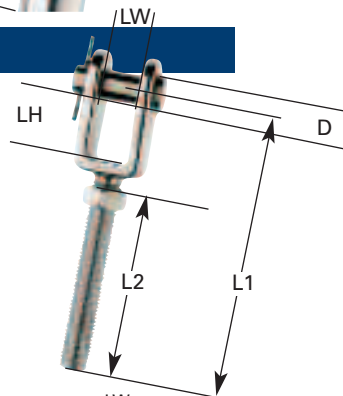
Eye fittings with interior threads

Item no.	thread mm	L1 mm	L2 mm	D1	price each
1470 0500	M 5	47	25	6,3	Price on enquiry
1470 0600	M 6	47	25	6,3	
1470 0800	M 8	80	50	8,5	



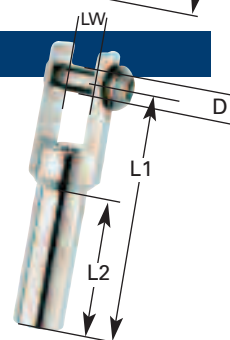
Fork terminal with exterior threads

Item no.	thread	L1 mm	L2 mm	LH mm	LW mm	D mm	price each
1470 3295	M 5	40	25	9,5	8	5,0	Price on enquiry
1470 3205	M 5	55	40	9,5	8	5,0	
1470 3206	M 6	65	50	10,5	8	6,0	
1470 3208	M 8	75	55	12,0	11	8,0	
1470 3210	M 10	85	60	14,0	12	9,5	
1470 3212	M 12	110	80	19,0	14	12,0	
1470 3214	M 14	125	90	19,0	14	14,0	
1470 3216	M 16	145	100	17,0	22	16,0	
1470 3220	M 20	170	115	32,0	26	19,0	
1470 3224	M 24	220	160	35,0	23	25,0	



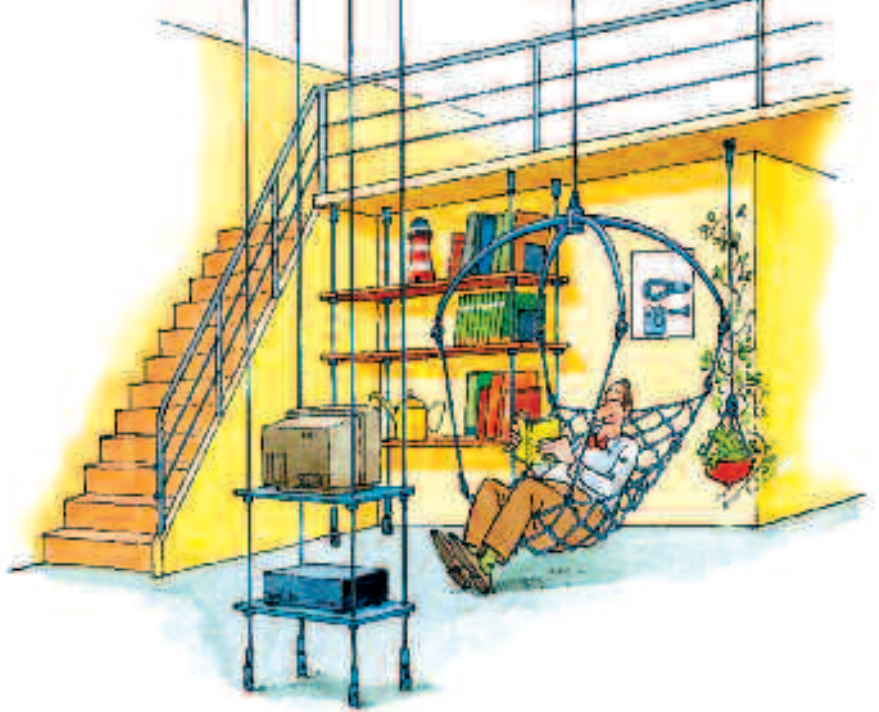
Fork terminal with interior threads

Item no.	thread	L1 mm	L2 mm	LW mm	D mm	price each
1470 3400	M 5	47	35	8,5	5	Price on enquiry
1470 3405	M 5	47	32	6,0	5	
1470 3406	M 6	43	28	6,0	6	
1470 3408	M 8	74	54	8,5	8	



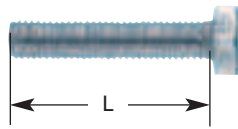
Components Fittings

DoStructa



Hex head screw DIN 933 Material 1.4401

Item no.	thread	mobility	L mm	price each
1476 0005	M 5	right	30	Price on enquiry
1476 0006	M 6	right	30	
1476 0008	M 8	right	40	
1476 0010	M 10	right	40	
1476 0012	M 12	right	50	
1476 0016	M 16	right	60	



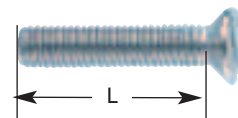
Cylinder head screw DIN 912 Material 1.4401

Item no.	thread	mobility	L mm	price each
1476 1005	M 5	right	25	Price on enquiry
1476 1006	M 6	right	30	
1476 1008	M 8	right	40	
1476 1010	M 10	right	40	
1476 1012	M 12	right	50	
1476 1016	M 16	right	60	



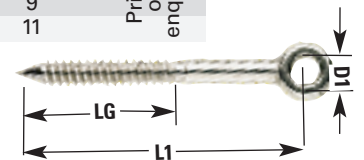
Countersunk head screw DIN 963 Material 1.4401

Item no.	thread	mobility	L mm	price each
1476 3420	M 4	right	20	Price on enquiry
1476 3430	M 4	right	30	
1476 3435	M 4	right	35	
1476 3440	M 4	right	40	
1476 3520	M 5	right	20	
1476 3525	M 5	right	25	
1476 3530	M 5	right	30	
1476 3535	M 5	right	35	
1476 3540	M 5	right	40	
1476 3550	M 5	right	50	
1476 3560	M 5	right	60	
1476 3630	M 6	right	30	
1476 3640	M 6	right	40	
1476 3650	M 6	right	50	
1476 3660	M 6	right	60	
1476 3840	M 8	right	40	
1476 3850	M 8	right	50	



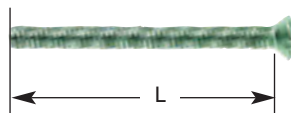
Eye-bolt with a wood thread, right-hand Material 1.4401

Item no.	L1 mm	LG mm	D1 mm	material thickness/mm	price/pc.
1499 1206	55	32	6,0	6	Price on enquiry
1499 1208	60	40	8,0	9	
1499 1210	80	55	10,0	11	



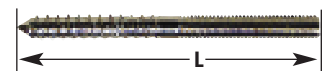
Raised countersunk-head screw DIN 964 Material 1.4401

Item no.	thread	mobility	L mm	price each
1476 2316	M 3	right	16	Price on enquiry
1476 2420	M 4	right	20	
1476 2430	M 4	right	30	
1476 2435	M 4	right	35	
1476 2520	M 5	right	20	
1476 2525	M 5	right	25	
1476 2530	M 5	right	30	
1476 2535	M 5	right	35	
1476 2540	M 5	right	40	
1476 2550	M 5	right	50	
1476 2630	M 6	right	30	
1476 2640	M 6	right	40	
1476 2650	M 6	right	50	
1476 2660	M 6	right	60	



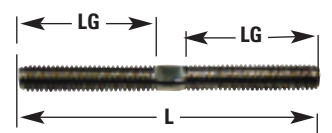
Cane screw. Material 1.4401, 1 x wood thread, 1 x metric right-hand

Item no.	thread	mobility	L mm	price each
1476 9608	M 6	right	80	Price on enquiry
1476 9810	M 8	right	100	
1476 9012	M 10	right	120	



Grub screws with spanner flats Material 1.4401, metric threads

Item no.	thread	mobility	LG mm	L1 mm	price each
1476 8630	M 6	right/left	30	65	Price on enquiry
1476 8830	M 8	right/left	30	65	
1476 8030	M10	right/left	30	65	



Hex head nut DIN 439, material 1.4401

Item no.	thread	mobility	price each
1475 1102	M 5	right	Price on enquiry
9475 1102	M 5	left	
1475 1103	M 6	right	
9475 1103	M 6	left	
1475 1104	M 8	right	
9475 1104	M 8	left	
1475 1105	M 10	right	
9475 1105	M 10	left	
1475 1106	M 12	right	
9475 1106	M 12	left	
1475 1108	M 16	right	
9475 1108	M 16	left	
1475 1110	M 20	right	
9475 1110	M 20	left	
1475 1112	M 24	right	
9475 1112	M 24	left	



Cap nut DIN 1587, material 1.4401

Item no.	thread	mobility	price each
1475 1202	M 5	right	Price on enquiry
1475 1203	M 6	right	
1475 1204	M 8	right	
1475 1205	M 10	right	
1475 1206	M 12	right	
1475 1208	M 16	right	
1475 1210	M 20	right	
1475 1212	M 24	right	



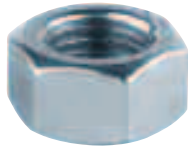
Spring ring DIN 127 B, material 1.4401

Item no.	for threads	price each
1477 3005	M 5	Price on enquiry
1477 3006	M 6	
1477 3008	M 8	
1477 3010	M 10	
1477 3012	M 12	
1477 3016	M 16	
1477 3020	M 20	
1477 3024	M 24	



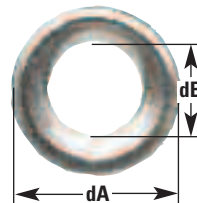
Hex head nut DIN 934, material 1.4401

Item no.	thread	mobility	price each
1475 1002	M 5	right	Price on enquiry
9475 1002	M 5	left	
1475 1003	M 6	right	
9475 1003	M 6	left	
1475 1004	M 8	right	
9475 1004	M 8	left	
1475 1005	M 10	right	
9475 1005	M 10	left	
1475 1006	M 12	right	
9475 1006	M 12	left	
1475 1008	M 16	right	
9475 1008	M 16	left	
1475 1010	M 20	right	
9475 1010	M 20	left	
1475 1012	M 24	right	
9475 1012	M 24	left	



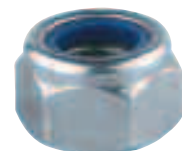
Ring washers DIN 125, material 1.4401

Item no.	dB mm	dA mm	thickness	price each
1477 1005	5,3	10,0	1,0	Price on enquiry
1477 1006	6,4	12,5	1,6	
1477 1008	8,4	17,0	1,6	
1477 1010	10,5	21,0	2,0	
1477 1012	13,0	24,0	2,5	
1477 1016	17,0	30,0	3,0	



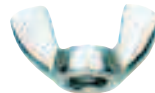
Hex head nut DIN 985 (self-locking), material 1.4401

Item no.	thread	mobility	price each
1475 1302	M 5	right	Price on enquiry
1475 1303	M 6	right	
1475 1304	M 8	right	
1475 1305	M 10	right	
1475 1306	M 12	right	
1475 1308	M 16	right	
1475 1310	M 20	right	
1475 1312	M 24	right	



Wing nut DIN 315, material 1.4401

Item no.	thread	mobility	price each
1475 1402	M 5	right	Price on enquiry
1475 1403	M 6	right	
1475 1404	M 8	right	
1475 1405	M 10	right	



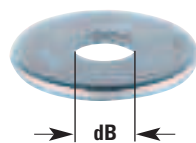
Ball nut with a tapped blind hole interior thread, material 1.4401

Item no.	thread	dA mm	L mm	price each
1477 9154	M 4	15	14,0	Price on enquiry
1477 9205	M 5	20	18,5	
1477 9245	M 5	24	22,0	
1477 9206	M 6	20	18,5	
1477 9246	M 6	24	22,0	
1477 9248	M 8	24	22,0	
1477 9240	M 10	24	22,0	



Ring washers DIN 9021, material 1.4401

Item no.	dB mm	price each
1477 2005	5,3	Price on enquiry
1477 2006	6,4	
1477 2008	8,4	
1477 2010	10,5	
1477 2012	13,0	



Stainless steel Components

Accessories

DoStructa

The countersunk head 90° with an interior thread is combined with a thread terminal (see page 318) and can be tightened via an Allen key.

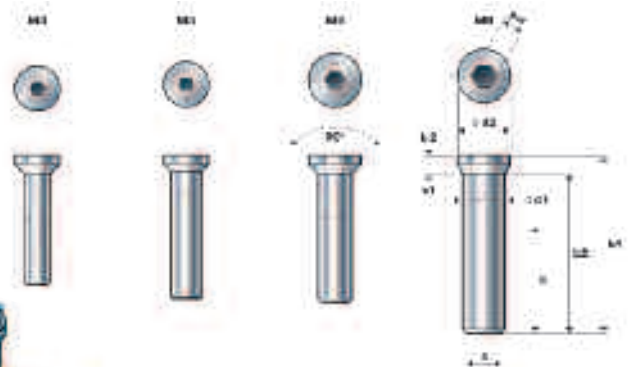


Countersunk head 90° with an interior thread

Item no.	a	b1 mm	b2 mm	c mm	∅ d1 mm	∅ d2 mm	k1 mm	k2 mm	sw mm	price each
1479 1204	M4	30,2	26	15	6	10,4	2,2	2	3	Price on enquiry
1479 1205	M5	33,7	30	20	7	10,4	1,7	2	3	
1479 1206	M6	34,2	30	20	8	12,4	2,2	2	4	
1479 1208	M8	40,2	37	25	10	12,4	1,2	2	5	

Breaking force: 90 percent of the minimum breaking force of the rope

Right direction thread



Jakob® INOX LINE



Advice:

When ordering the connectors shown below please indicate:

- the lead angle
- the pile diameter (for round piles)

Connector for an architectural rope end fitting with an interior thread

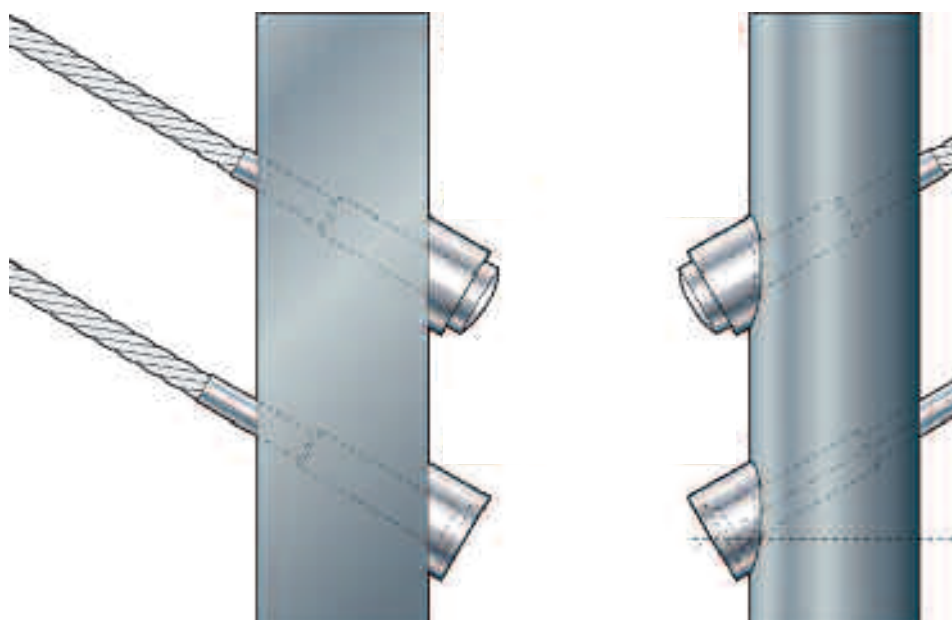
Item number	suitable for thread a	∅ d1 mm	∅ d2 mm	l1 mm	price each	
For flat pile profiles						
1479 1304	M4	13	7,3	3	Price on enquiry	
1479 1305	M5	13	7,3	3		
1479 1306	M6	18	8,5	3		
1479 1308	M8	18	10,5	3		
For round pile profiles						
1479 1404	M4	13	7,3	3		
1479 1405	M5	13	7,3	3		
1479 1406	M6	18	8,5	3		
1479 1408	M8	18	10,5	3		

For architectural rope end fittings with an interior thread see page 327.

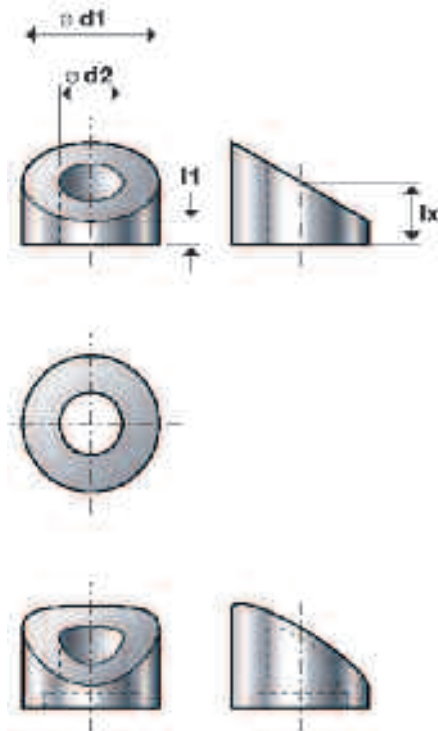
Connector for Countersunk head 90° with an interior thread

Item number	suitable for thread a	∅ d1 mm	∅ d2 mm	l1 mm	price each	
For flat pile profiles						
1479 1504	M4	13	7,3	3	Price on enquiry	
1479 1505	M5	13	7,3	3		
1479 1506	M6	18	10,5	3		
1479 1508	M8	18	10,5	3		
For round pile profiles						
1479 1604	M4	13	7,3	3		
1479 1605	M5	13	7,3	3		
1479 1606	M6	18	10,5	3		
1479 1608	M8	18 </td <td>10,5</td> <td>3</td>	10,5	3		

For connectors for Countersunk heads 90° with an interior thread see page 330.



Lead - angle α	∅ d1 10mm lx	∅ d2 13mm lx
25,0°	5,3	6,0
27,5°	5,6	6,4
30,0°	5,9	6,8
32,5°	6,2	7,1
35,0°	6,5	7,8
37,5°	6,8	8,0
40,0°	7,2	8,5
42,5°	7,6	9,0
45,0°	8,0	9,5



Jakob® INOX LINE

! For the determination of the manufacturing length it is necessary to consider the length **lx** per connector. If you like to use an exterior thread instead of a countersunk head, then you will have to add the projecting part of the thread for the correct manufacturing length.

Stainless steel Components

Carrier elements

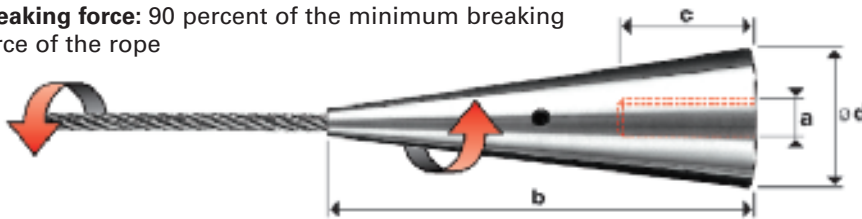
DoStructa

Jakob® INOX LINE

Rope fitting (cone-shaped) with an interior thread, rotarily pressed in

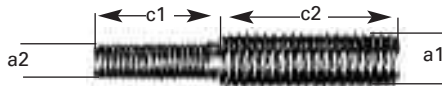
Item number	∅ mm	a mm	b mm	c mm	∅ d mm	price each
1479 2203	3,0	M12	90	35	30	Price on enquiry
1479 2204	4,0	M12	90	35	30	
1479 2205	5,0	M12	125	35	42	

Breaking force: 90 percent of the minimum breaking force of the rope



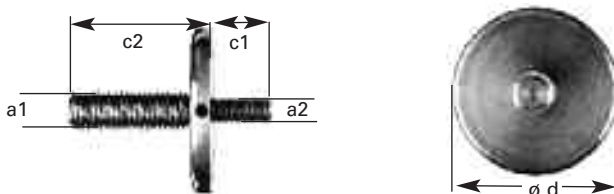
Grub screws M8 / M12

Item number	a1	a2	c1 mm	c2 mm	price each
1479 2301	M12	M8	24	30	on enquiry



Grub screws with a supporting disk

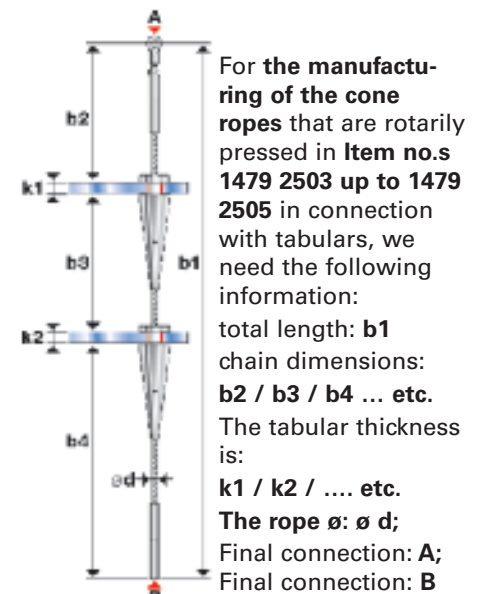
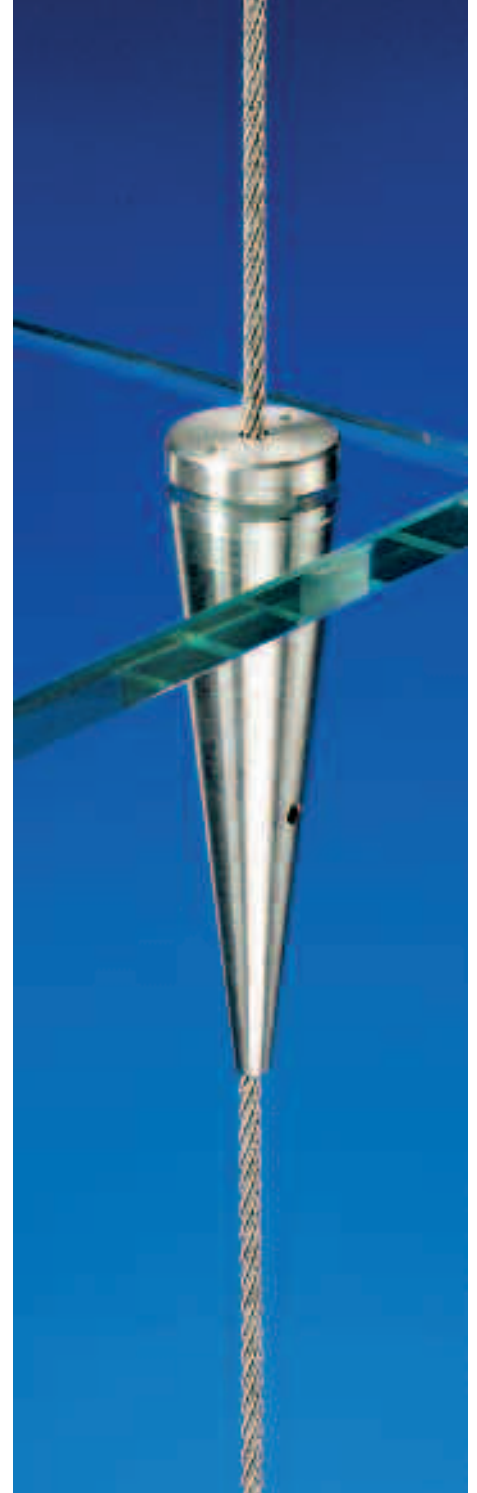
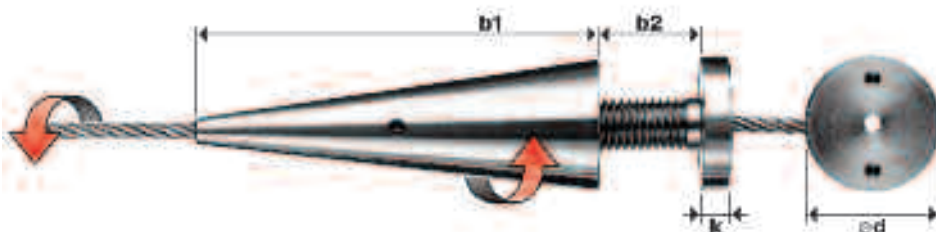
Item number	a1	a2	c1 mm	c2 mm	∅ d mm	k mm	price each
1479 2401	M12	M8	18	36	50	6	on enquiry



Rope cone with disk, rotarily pressed

Item number	∅ mm	b1 mm	b2 max. mm	∅ d mm	k mm	price each
1479 2503	3,0	90	15	30	6	Price on enquiry
1479 2504	4,0	90	15	30	6	
1479 2505	5,0	125	22	42	8	

Breaking force: 90 percent of the minimum breaking force of the rope





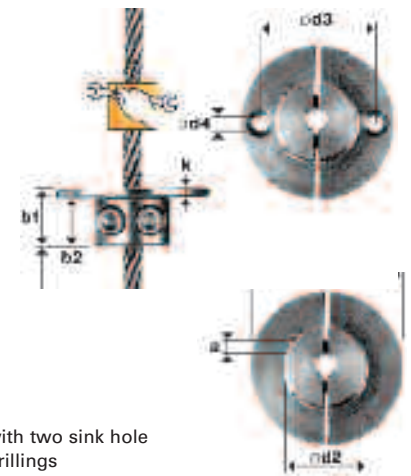
Stainless steel Components

Carrier elements for self installation

DoStructa

O ring, two parts

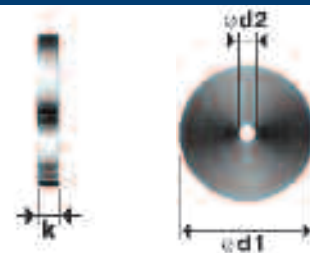
Item number	ø mm	a	maximum axial force at torque kN	b1 mm	b2 mm	ø d1 mm	ø d2 mm	ø d3 mm	ø d4 mm	k mm	price each
1479 1702*	2,0	M 3	1,0	11	9,5	30	15	22,5	3,2	1,5	Price on enquiry
1479 1703*	3,0	M 3	1,3	11	9,5	30	15	22,5	3,2	1,5	
1479 1704*	4,0	M 3	1,6	11	9,5	30	15	22,5	3,2	1,5	
1479 1705*	5,0	M 4	2,0	11	9,5	35	20	27,5	3,2	1,5	
1479 1706*	6,0	M 4	2,2	11	9,5	35	20	27,5	3,2	1,5	
1479 1708*	8,0	M 4	2,2	11	9,5	35	20	27,5	3,2	1,5	
1479 1802	2,0	M 3	1,0	11	9,5	30	15	22,5	3,2	1,5	
1479 1803	3,0	M 3	1,3	11	9,5	30	15	22,5	3,2	1,5	
1479 1804	4,0	M 3	1,6	11	9,5	30	15	22,5	3,2	1,5	
1479 1805	5,0	M 4	2,0	11	9,5	35	20	27,5	3,2	1,5	
1479 1806	6,0	M 4	2,2	11	9,5	35	20	27,5	3,2	1,5	
1479 1808	8,0	M 4	2,2	11	9,5	35	20	27,5	3,2	1,5	



* with two sink hole drillings

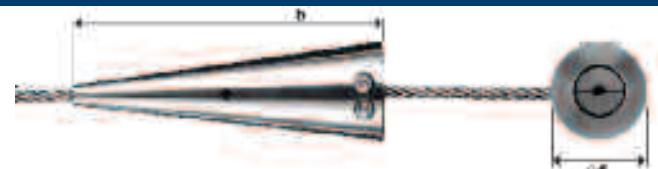
Covering disks for rope clamping cones

Item number	ø mm	ø d1 mm	ø d2 mm	k mm	price each
1479 1903	3,0	30	3,5	4	on enquiry
1479 1904	4,0	30	4,5	4	on enquiry



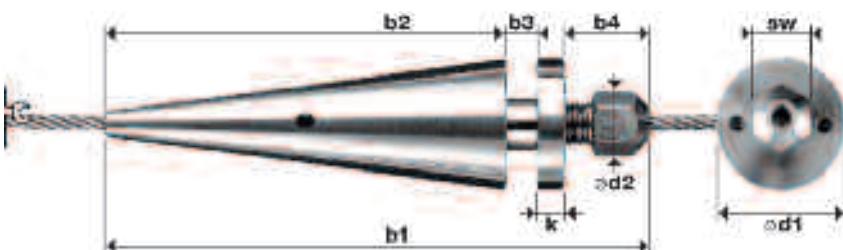
Rope clamping cones, screwed together

Item number	ø mm	maximum axial force at torque kN	b mm	ø d mm	price each
1479 2003	3,0	1,3	90	30	on enquiry
1479 2004	4,0	1,6	90	30	on enquiry



Rope cones with disk, screwed together

Item number	ø mm	b1 mm	b2 mm	b3 max. mm	b4 mm	ø d1 mm	ø d2 mm	k mm	sw mm	price each
1479 2103	3,0	114 (+b3)	90	15	18	30	14,8	6	13	on enquiry
1479 2104	4,0	114 (+b3)	90	15	18	30	14,8	6	13	on enquiry



Breaking force: 90 percent of the minimum breaking force of the rope

Jakob® INOX LINE

Stainless steel

Carrier elements

DoStructa



Parallel rope holders



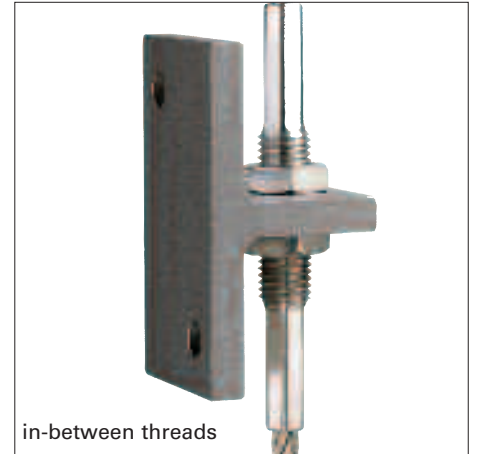
Parallel rope holders

Rope systems for vertical suspensions, for interior zones, such as for the fixing of shelves on rope systems.

Jakob® INOX LINE



Parallel rope holders



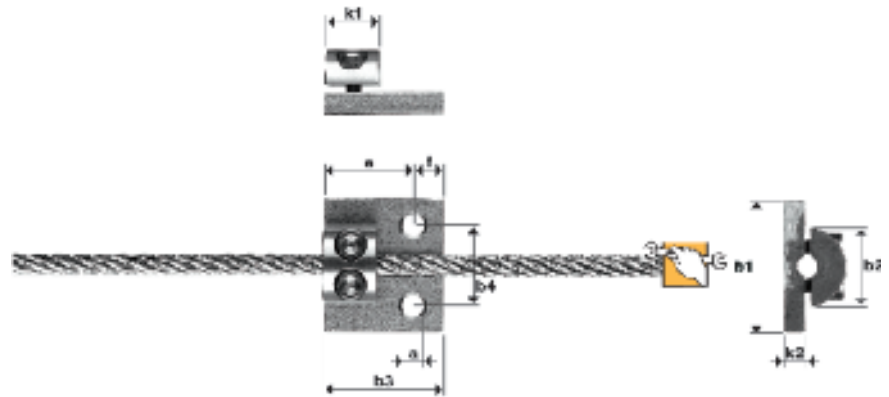
in-between threads

Parallel rope holders

Item number	ø mm	a	maximum axial force at torque kN	b1 mm	b2 mm	b3 mm	b4 mm	e mm	f mm	k1 mm	k2 mm	price each
1479 9002	2,0	M5	1,0	25	15	22	15	16,5	5,5	10	4	Price on enquiry
1479 1003	3,0	M5	1,3	25	15	22	15	16,5	5,5	10	4	
1479 1004	4,0	M5	1,6	25	15	22	15	16,5	5,5	10	4	
1479 1005	5,0	M5	2,0	25	20	22	15	16,5	5,5	10	5	
1479 1006	6,0	M5	2,2	25	20	22	15	16,5	5,5	10	5	



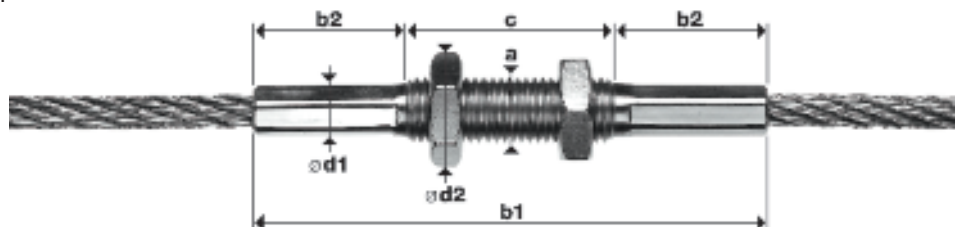
Degreasing the clamping parts and the steel wire rope will help increasing the axial force (kN).

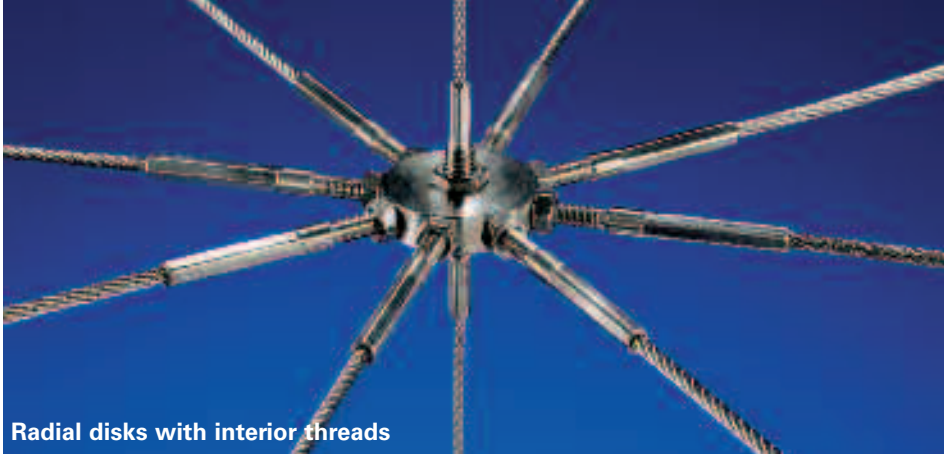


In-between threads, pressed

Item number	ø mm	a	b1 mm	b2 mm	b3 min. mm	c mm	ø d1 mm	ø d2 mm	price each
1479 1103	3,0	M8	60	15	60	30	6	14,6	Price on enquiry
1479 1104	4,0	M10	70	20	50	30	7	19,0	
1479 1105	5,0	M10	90	25	50	40	8	19,0	
1479 1106	6,0	M12	110	30	80	50	10	21,3	
1479 1108	8,0	M16	120	35	90	50	13	27,0	

Breaking force: 90 percent of the minimum breaking force of the rope





Radial disks with interior threads

Stainless steel Components

Bracing systems

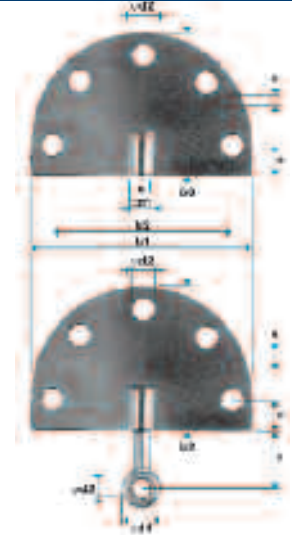
DoStructa

Radial stainless steel wire connector with interior threads

Item number	a	b1 mm	b2 mm	b3 mm	∅ d1 mm	∅ d2 mm	e mm	k mm	price each
1479 2600	M8	100	80	63	12	10	14	5	on enquiry

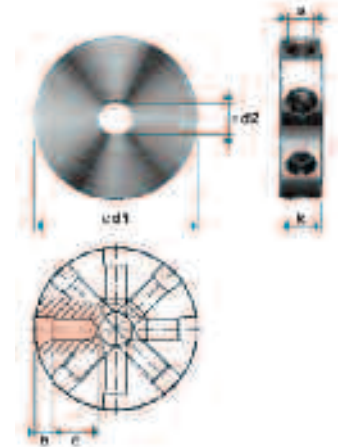
Radial stainless steel wire connector with eye screws

Item number	b1 mm	b2 mm	b3 mm	∅ d2 mm	∅ d3 mm	∅ d4 mm	e mm	f mm	k mm	price each
1479 2601	100	80	63	10	8,1	18	14	23	5	on enquiry



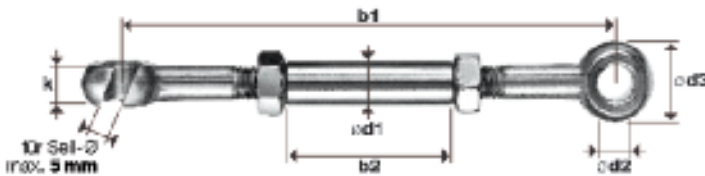
Radial disks with interior threads

Item number	a	b mm	c mm	∅ d1 mm	∅ d2 mm	k mm	price each
1479 2602	8 x M6	3,5	12,5	40	8,2	10	on enquiry



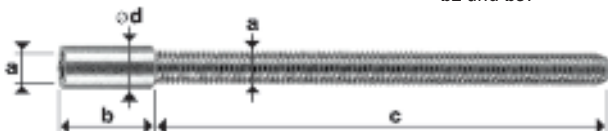
Rope returnings, slotted

Item number	∅ mm	b1 max. mm	b1 min. mm	b2 mm	∅ d1 mm	∅ d2 mm	∅ d3 mm	k mm	price each
1479 2603	5,0	106	84	38	10	8,1	18	9	o.e.

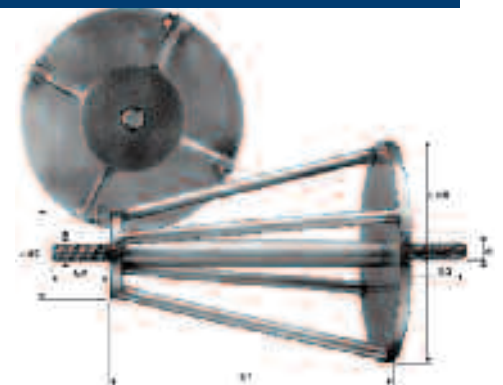


Spacer for rope guides

Item number	a	b1	b2	b3	∅ d1	∅ d2	price each
1479 2604	M8	75	variabel	variabel	100	40	Price on enquiry
1479 2605	M8	100	when ordering please give the dimensions b2 and b3!		100	40	
1479 2607	M8	150			100	40	
1479 2609	M8	200	100	40			



Please pay attention to the mounting instructions for the bracing of external walls on page 341!



Webnet

Rope nets made from stainless steel

Rope construction 6 x 7 + SE

DoStructa

Flexible and transparent net structures made from stainless steel wire ropes are multifunctional and long-lasting: being mounted on bannisters or in stairways, they provide foothold and guidance. They also serve as climbing aids for plants on building fronts, and in large-size rooms, they can work as separating elements that set filigrane accents.

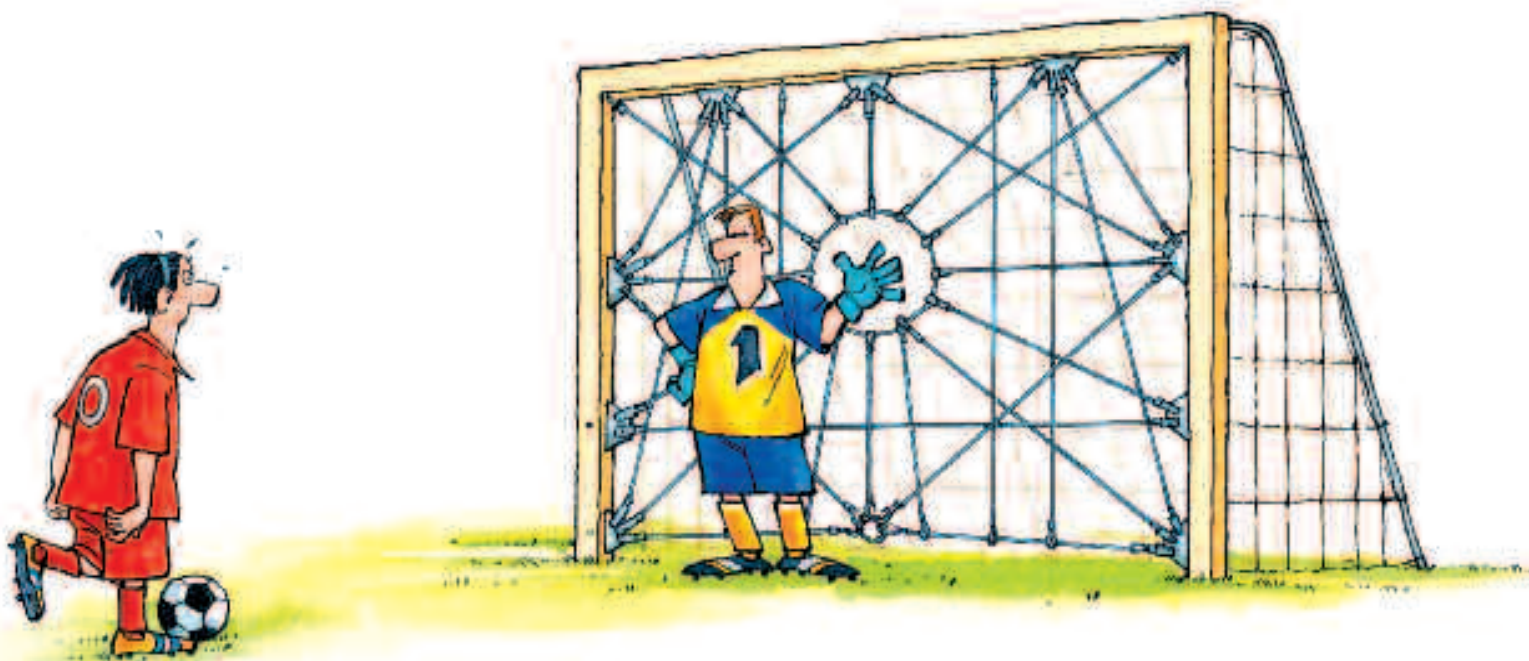
Webnet has been checked according to standard parameters and has been tested multiple times. In contrast to the traditionally knotted synthetic fibre ropes Webnet is weatherproof and absolutely protected from ultraviolet light. This makes it ideal for using as safety-net for bridges and viewing platforms.

Webnet can be used as a two-dimensional space, but it also can be clamped as a spatial body in a three-dimensional form, such as a funnel, a cylinder or a cone.

The tissue consists of an extraordinary tension force and flexibility, it is a net whose ropes are neither knotted nor crossed: the **Webnet** is a construction made from stainless steel wire ropes that lie in displaced capsules and are parallelly and reciprocally warped in pairs. The net construction can therefore be pulled apart according to the principle of an accordion and hereby generates an elasticity that differs depending on the mesh width and the thickness of the rope.

Webnet is a vivid and a high-quality product: the mesh width can differ between very tight and very large, it is variable. The rope diameter (1.5 mm or other diameters on enquiry) and the mesh width define the function and the aesthetics.





V₁



V₃



V₁₀



V₁₈



Stainless steel wire rope net finishings

Choose the stainless steel wire rope net finishing according to your structural mounting conditions.

Especially pay attention to:

- The style of the primary structure (such as wire rope slings, tubular frames, etc.)
- The dimension of the Webnet
- The quantity of the pre-tension force on the Webnet

These stainless steel wire rope net finishings have proven themselves:

V₁ + V₃: the length is adjustable or cuttable, for asymmetrical carrier constructions.

V₁₀ + V₁₈: for right-angled or quadratic net dimensions.

V₃ + V₁₈ can be tensed up by incorporating empty covers with a rope of 1.5mm thickness.

V₁ + V₁₀ can be tensed up individually

Further stainless steel wire rope net finishings are available, please ask for info.

Jakob[®] INOX LINE

Dolezych 337

Webnet

Rope nets made from stainless steel

Rope constructions 6 x 7 + SE

DoStructa

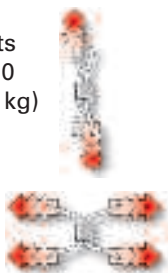
The **Webnet** is suitable as a decorative and sturdy safety device especially for the use

- for personal security
- against stone-chipping on hiking trails
- as a safety net on road bridges
- as a protection on viewing terraces and platforms
- as a protection from thrown bottles
- as a net for animal cages



Technical Data Webnet

- diameter of the rope: 1.5 mm
- stainless steel wire ropes of the construction 6 x 7 SE
- pressed in with closed covers, material copper, tinned (E-CU sn)
- the stability of the knots in longitudinal direction is 0.1 kN (approximately 10kg)
- the stability of the knots in lateral direction is 2.0 kN (approximately 200 kg)



Please order Webnet this way!

For a correct fabrication of the net, please provide the following information:

The dimension of the net:

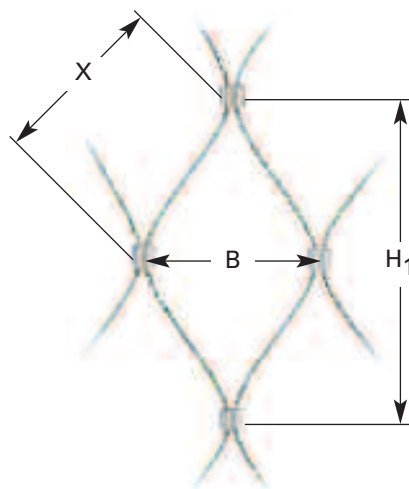
the total height H_2 (mm) x

the total length L (mm) (see illustration below)

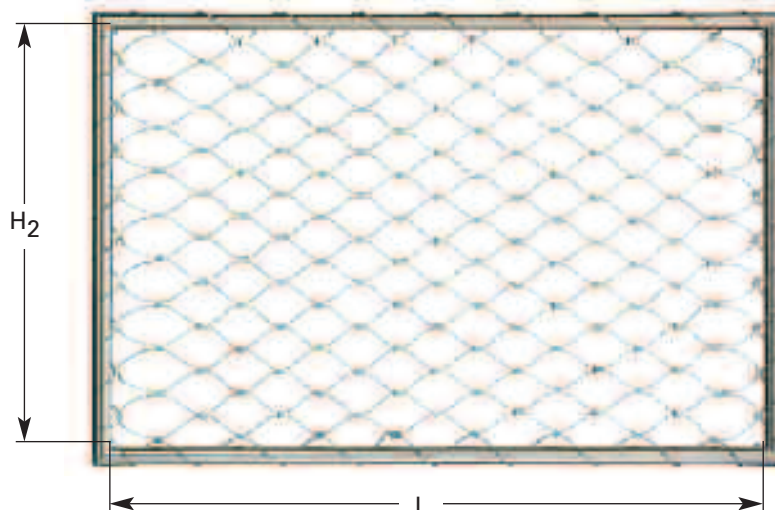
The mesh size: X (40 - 180 mm, see chart on page 309). The dimensions B and H_1 correspond to each other, see chart on page 309.

Stainless steel wire rope net finishing: possible variants are available on page 337.

Mesh size



Net dimensions





Webnet, stainless steel rope 1.5mm

Item no.	mesh size x / mm	standard height H ₁ / mm	standard width B / mm	weight kg / m ²	length of the rope in m / m ²	number of sleeves/ m ²	light transmission %	price each square metre
2450 004.	40	74,0	42,7	1,196	60	760	96,0	Price on enquiry
2450 006.	60	107,1	61,8	0,668	40	360	98,1	
2450 008.	80	141,0	81,4	0,435	30	195	99,0	
2450 010.	100	175,1	101,1	0,334	25	130	99,3	
2450 012.	120	209,5	120,9	0,268	21	95	99,5	
2450 014.	140	243,9	140,8	0,222	18	73	99,6	
2450 016.	160	278,3	160,7	0,190	16	57	99,7	
2450 018.	180	312,8	180,6	0,162	14	45	99,8	

When ordering, please give the requested stainless steel wire rope net finishing: $V_1 = 1, V_3 = 2, V_{10} = 3, V_{18} = 4$

Example: Webnet mesh size 60 mm, height 2 m x length 5 m, stainless steel wire rope net finishing $V_3 = 2450 0062, 2 \times 5$ m



Stainless steel wire ropes for rambling plants

**DoStructa
GreenLine**



The rising building development has led to a displacement of nature in the cities starting from the middle of the 20th century.

Practical habitability took priority over aesthetic reasons even in the planning stages. Nowadays, techniques to improve the living climate as a biological and a social component are paid higher attention to.

What types of plants are suitable for planting vegetation of building fronts?

There is a big assortment of climbing woods. When choosing the right kind of climbing wood, you should consider the following criteria: the colour of the blossom, the growth tallness, the soil requirements and the positioning.

According to the growth tallness, some plants require climbing aids, others prefer trellis – decisive criteria for the choice of the climbing wood.

Due to the sort variety, roses, clematis and Ionicera remain unmentioned here.

What are the advantages of planting vegetation on building fronts?

Climbed facades are less exposed to temperature effects than unprotected areas. They provide protection against sun and driving rain. The weathering of the building areas can be prevented effectively this way. Climbed building areas make a contribution to noise protection insulation.

Due to rising aerial emissions the factor called “plants used as air cleaners” is getting more and more important.

The social component cannot be underestimated. Climbed, green oases give much better opportunities of staying there, resting and communicating than grey backyards.

Climbed building areas are much less used for graffiti paintings than just plaster, even if it is painted in a brilliant white colour.

type of plant lat.	height m	climbing type	climbing aids	peri- winkle	growth speed	blossom colour	soil require- ments	positio- ning
<i>Actinidia arguta</i>	4-6	SC	SMP	-	low	white	middle	○ ●
<i>Actinidia chinensis</i>	8	SC	SMP	-	low	white	middle	○ ●
<i>Actinidia kolomikta</i>	3-4	SC	SMP	-	low	white	middle	○ ●
<i>Akebia quinata</i>	5-6	CP	SMP R	-	-	purpur	middle	○ ●
<i>Aristolochia macrophylla</i>	6-9	CP	SMP RA	-	middle	yel-green	middle	○ ●
<i>Campsis radicans</i>	7-9	RC	SA	-	-	yell. orange	high	○
<i>Campsis „Mme Galen“</i>	7-9	RC	SA	-	-	orange red	high	○
<i>Celastrus orbiculatus</i>	8-12	CP	SMP R	-	middle	greenish	low	○
<i>Euonymus fortunei</i>	3-5	RC	SA	yes	-	greenish	low	○ ●
<i>Euonymus fortunei var vegata</i>	2-3	RC	SA	yes	-	greenish	low	○ ●
<i>Hedera colchica</i>	8	RC	SA	yes	-	white	middle	○ ●
<i>Hedera hibernica</i>	20-30	RC	SA	yes	-	greenish	middle	○ ●
<i>Hedera helix „Goldheart“</i>	4-5	RC	SA	yes	-	greenish	middle	○ ●
<i>Humulus lupulus</i>	7-8	CP	SMP R	-	middle	green	middle	○
<i>Hydrangea petriolaris</i>	5-7	RC	SA	-	-	white	middle	○ ●
<i>Jasminum nudiflorum</i>	5	SC	SMP A	-	low	yellow	middle	○
<i>Menispermum canadense</i>	5	CP	SMP R	-	-	yell. green	middle	○
<i>Parthenocissus quinquefolia</i>	15	RP	SMP SA	-	middle	greenish	middle	○
<i>Parthenocissus tricuspidata „Veitchii“</i>	14	CPA	SA	-	middle	yell. green	middle	○ ●
<i>Parthenocissus quinquefolia var. Engelmannii</i>	15	CPA	SA	-	middle	yell. green	middle	○ ●
<i>Periploca graeca</i>	10	CP	SMP R	-	-	violett	middle	○
<i>Polygonum aubertii</i>	10	CP	SMP R	-	-	white	low	○ ●
<i>Rubus fruits</i>	4-5	CRP	SA	pltem	low	rosa	middle	○ ●
<i>Schisandra chinensis</i>	8	CP	SMP R	-	-	yell. red	middle	○
<i>Schizophragma hydrangeoides</i>	6-8	RC	SA	-	-	white	middle	○ ●
<i>Vitis coignetiae</i>	6-8	CRP	SMP	-	middle	yell. green	middle	○ ●
<i>Vitis vinifera</i>	6-8	CRP	SMP	-	low	yell. green	middle	○

Legend:			
SC	spreader climber	SMP	slats trellis, metal lattice, poles
CP	climbing plant	SMP R	slats trellis, metal lattice, poles, tension wire, thin lattice-work
RC	root climber	SMP RA	slats trellis, metal lattice, poles, tension wire, thin lattice-work, fasten
CRP	creeping plant	SA	self-adhesive
CPA	climbing plants with ATD anti-theft disks		
○	sunny	◐	semi-shady or half-shady
●	shady		



Climbing aids

Climbing plants do not develop a self-supporting main trestle or limb trestle. That is why they need a substitute. A useful help for the plants can be rank trestles in the form of wooden espaliers with relatively thickly dimensioned length bars or cross studs or stainless steel wire ropes that hardly catch someone's eyes, as particularly shapely climbing aids on building fronts. Despite this, they can be used as two-dimensionally acting design features, if they are structured net-like. With these preferred linear structures, architectural visual focuses can be achieved. Climbing plants can also help to cover cornices and jutties. As a default, the triangle consoles provide a projection of 120 mm. For most of the climbing plants, this distance is an appropriate

Climbing plants can have a lifetime between thirty and one hundred years. That is why the corrosion resistance is of a higher relevance for the choice of materials.

projection. We also offer you different dimensions on demand.

While mounting the consoles, you should consider an appropriate fixing, because the forces to the suspension points can be quite huge. The conditions of the wall and front constructions are very important for the choice of the appropriate fixing material.

The mounting technique for the fixation on concrete, cavity block tile or on porous concrete offers suitable stud systems. Special interconnection mortar systems, such as UPAT UPM 1 attain brilliant results. When mounting on insulation fronts, it is necessary to measure the length of the thread bar in order to create a connection with the masonry.

DoStructa GreenLine is made of stainless steel components. The burls of the rank rope consist of weatherproof plastic material.



When mounting pay attention to sealing – avoid thermal bridges.

You also can get useful hints in the "Guidelines for the planning, construction and maintenance of front planting vegetation with climbing plants" at the FLL Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau e.V., 53840 Troisdorf.

Stainless steel wire ropes for rambling plants

**DoStructa
GreenLine**

The GreenLine tensiometre with a maintenance display in traffic light look



The GreenLine Tensiometre

A tension indicator with an upper mounting eye to the connection to a rank rope via fork terminal. The lower thread fork connects to the ring nut of the triangle combination. The desired input tension is adjusted via the thread fork.

Item no.	price
4410 0001	on enquiry

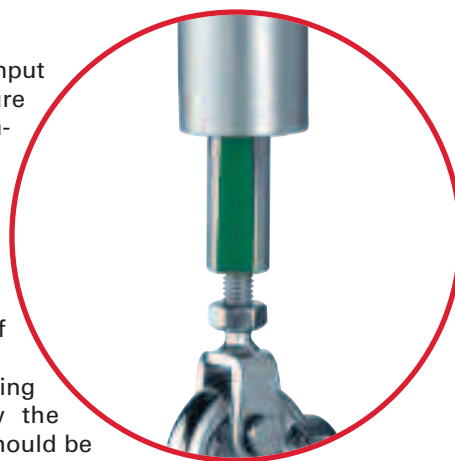
This system component makes sure that your rank rope can grow with the plant.

When adjusting the input tension, please make sure that the tension indicator, which shows the traffic light colours green/yell./red, shows green. When the nominal tension is rising by natural cover, the indicator is coming out of the socket.

The yellow colour coding becomes visible. Now the tension in the system should be reduced by a simple adjustment via the thread fork.

The indicator will show green again after this procedure. This procedure can be repeated several times, if required.

If the input tension has not been reduced in the system, the indicator will go out of range. If the user does not even release tension in this case, a safety bolt will break at the triangle acceptance as a predetermined breaking point. So it is ensured that the upper hanging will not be torn out of the building front, if the growing of the plants leads to an excessive tension in the system.



This invention by Dolezych is patent-protected.



Triangle combination

With 120mm projection, thread bar M 10 x 200mm standard length for mounting in masonry, with ring nut M 10 at end side.

Item no.	price
4490 1210	on enquiry

Stainless steel tension rope combination

For climbing plants with spanners and forks on both sides, suitable for triangle combinations.

Item no.	price 1 Meter	price per add. m
2423 0499	on enquiry	on enquiry



Stainless steel rope with climbing aids burls

4 mm diameter, material 1.4401, construction 7x7 wires, 1570 N/mm² strength. The first rope on the market with climbing aids burls. Made of weatherproof plastic material. Kind of burl in round figures to prevent any injuries of the plants. 3 burls on 1 metre length of rope. The colour of the burl is grey.

Item no.	price
0170 0401	on enquiry



Washers for triangle combinations

Good for load balancing and minimises the contact pressure per unit area – particularly recommendable for insulation fronts.

Item no.	price
4490 0001	on enquiry



Supporting disks with pass-through eyes

Projection 120 mm, for holding and spacer for long horizontal and vertical ropes. Lengths of ropes over 3 m should be supported by a holder box.

Item no.	price
4490 0812	on enquiry



Components for balustrades and hand rails

Stainless steel K240, matte

DoStructa



Hand rail support with backplate, Ø 64 mm, 12 mm pin

Item no.	Price each
5460 0310	on enquiry



Covering rosette for hand rail support, 12.5 mm high, Ø 70 mm, bore 12.2 mm

Item no.	Price each
5460 2600	on enquiry



Hand rail rest, round support plate, blocking screw M8x70 mm, wall distance 70 mm, rosette 60 mm

Item no.	Price each
5460 0450	on enquiry



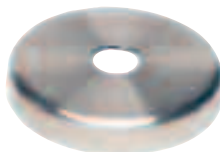
Hand rail support, adjustable, Ø 64 mm, 14 mm pin

Item no.	Price each
5460 0300	on enquiry



Covering rosette for hand rail support, 12,5 mm high, Ø 70 mm, bore 14,2 mm

Item no.	Price each
5460 2610	on enquiry



Hand rail support, M8 thread, 6 mm sunk holes

Item no.	Price each
5460 0280	on enquiry



Backplate, M8

Item no.	for pipe mm *	Price each
5460 0530	42,4 / 2*	on enquiry



* Measurements for stainless steel pipe: Interior diameter / Material width in mm

Pipe carrier, rigid, with backplate

Item no.	for pipe mm *	Price each
5460 0550	42,4 / 2*	on enquiry



Hand rail support for flat material and wood bannisters

Item no.	for pipe mm *	Price each
5460 0580	42,4 / 2*	on enquiry



Pipe carrier with backplate and flexible joint piece

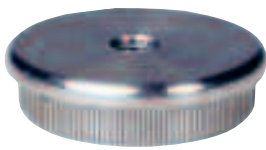
Item no.	for pipe mm *	Price each
5460 0560	42,4 / 2*	on enquiry





End cap, knurled, flat, with M8 thread

Item no.	for pipe mm *	Price each
5460 0120	42,4 / 2*	on enquiry



End cap, knurled, cambered, with M8 thread

Item no.	for pipe mm *	Price each
5460 0220	42,4 / 2*	Price on enquiry
5460 0222	42,4 / 2,6	
5460 0130	33,7 / 2,6	



End cap, knurled, cambered, with M8 thread

Item no.	for pipe mm *	Price each
5460 0065	42,4 / 2	on enquiry
5460 0066	33,7 / 2,6	on enquiry



End cap, knurled, flat

Item no.	for pipe mm *	Price each
5460 0010	42,4 / 2	Price on enquiry
5460 0020	33,7 / 2,6	
5460 0021	33,7 / 2,6*	

* (without knurls)



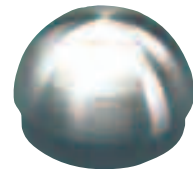
End cap, knurled, cambered

Item no.	for pipe mm *	Price each
5460 0030	42,4 / 2	Price on enquiry
5460 0031	42,4 / 2,6	
5460 0040	33,7 / 2,6	
5460 0041	33,7 / 2,0	



End cap, knurled, cambered

Item no.	for pipe mm *	Price each
5460 0060	42,4 / 2	on enquiry
5460 0070	33,7 / 2,6	on enquiry



End cap, weld-on (weld cover), unfinished

Item no.	for pipe mm *	Price each
5460 0170	42,4 / 2	Price on enquiry
5460 0172	42,4 / 3	
5460 0180	33,7 / 2	



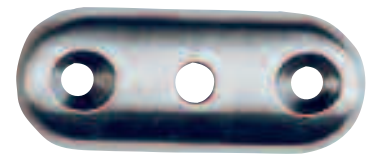
End cap, hollow, knurled, cambered

Item no.	for pipe mm *	Price each
5460 0226	42,4 / 2	on enquiry
5460 0227	33,7 / 2,6	on enquiry



Screw-on backplate for pins and pipes 42,4, size 63/25/4 mm

Item no.	Price each
5460 0540	on enquiry



End cap, no knurls, cambered

Item no.	for pipe mm	Price each
5460 0200	25 / 2	on enquiry



Metal glue, Loctite, bottle of 10 ml (no picture)

Item no.	Price each
5460 1990	on enquiry

* Measurements for stainless steel pipe: Interior diameter / Material width in mm

Components for balustrades and hand rails

Stainless steel, K 240 + 320

DoStructa



When ordering, please let us know the desired granulation (K 240 or K 320) that you prefer.

Stainless steel pipes. K 240/320, matte



Item no.	Pipe mm *	Price / metre
5499 9424	42,4 / 2	Price on enquiry
5499 9337	33,7 / 2,6	
5499 9250	25 / 2	
5499 9200	20 / 2	
5499 9160	16 / 2	

When ordering, please suggest the granulation (K 240 or K 320) that you prefer.

Standard length 6 m.

Distance piece, Ø 33.7mm, 40 mm

Item no.	for pipe mm *	Price each
5460 0690	42,4 / 2	on enquiry
5460 0700	33,7 / 2,6	on enquiry



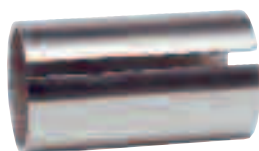
Distance piece, Ø 42.4 mm, 70 mm

Item no.	for connection Pipe mm *	Price each
5460 9020	42,4 / 2	on enquiry



Pipe connector, with slot

Item no.	for pipe mm *	Price each
5460 0390	42,4 / 2	on enquiry
5460 0590	33,7 / 2,6	on enquiry



Distance piece, Ø 33.7 mm, 40 mm

Item no.	for connection Pipe mm	Price each
5460 0680	42,4 + 33,7	on enquiry



Pipe connector fitting for pipe Ø 42.4 mm

Item no.	for pipe mm *	Price each
5460 0620	42,4 / 2	on enquiry



Pipe connector with screws

Item no.	for pipe mm *	Price each
5460 0600	42,4 / 2	on enquiry



* Measurements for stainless steel pipe:
Interior diameter /
Material width in mm



Pipe bend for pipe 42.4/2 mm

Item no.	pipe arch	Price each
5460 1920	90	on enquiry
5460 1900	180	on enquiry

Weld-on loop 90°, non-polished

Item no.	Dimensions mm *	Radius mm middle	Price each
5460 1970	42,4 / 2	45	on enquiry
5460 1971	33,7 / 2	35	on enquiry



Plug bow connector with off-take, K 240 or K 320

Item no.	for pipe mm *	Price each
5460 1510	42,4 / 2	on enquiry

Plug bow connector 45°, K 240 or K 320

Item no.	for pipe mm *	Price each
5460 2580	42,4 / 2	on enquiry

Plug bow connector 90°, K 240 or K 320

Item no.	Material	for pipe mm *	Price each
5460 2540	V4A	42,4 / 2	on enquiry
5460 2550	V2A	33,7 / 2	on enquiry



Plug angle 90°, K 240 or K 320

Item no.	Material	for pipe mm *	Price each
5460 2520	V4A	42,4 / 2	on enquiry
5460 2560	V2A	33,7 / 2	on enquiry

T-Fork, K 240 or K 320

Item no.	for pipe mm *	Price each
5460 2460	42,4 / 2	on enquiry

Wall or floor pedestal, K 240 or K 320, 3 bore holes

Item no.	Dia-meter mm	for pipe mm *	Price each
5460 2590	80	42,4 / 2	on enquiry



* Measurements for stainless steel pipe:
Interior diameter /
Material width in mm

Components for balustrades and hand rails

Stainless steel, K 240 matte

DoStructa

* **Measurements for stainless steel pipe: Interior diameter / Material width in mm**

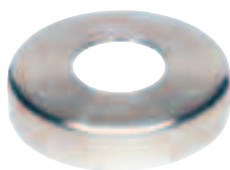
Wall and ground mount, plated

Item no.	Dia- meter mm	for pipe mm *	Price each
5460 0730	100	42,4 / 2	on enquiry
5460 0740	80	33,7 / 2,6	on enquiry



Covering rosette, for ground mount and backplate, 22.5 mm height

Item no.	Dia- meter mm	for pipe mm *	Price each
5460 2620	105	42,4 / 2	on enquiry
5460 2630	85	33,7 / 2,6	on enquiry



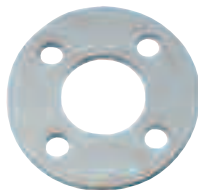
Flat covering rosette, 14 mm height

Item no.	Dia- meter mm	for pipe mm *	Price each
5460 2631	85	42,4 / 2	on enquiry



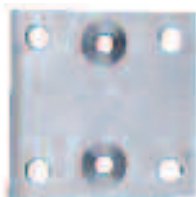
Backplate, unfinished

Item no.	Dia- meter mm	for pipe mm *	Price each
5460 0920	100	42,4 / 2	on enquiry



Jowl fixing plate for distance pods, sunk hub

Item no.	Measurements	Price each
5460 0850	85x85 mm	on enquiry



Wall mount set for pipe mounting, 42.4 and 33.7 mm

Stainless steel V4A. Plate 100 / 6 mm with 4 holes - 2 bores sunk in back. 9 mm. total with 2 distance pods 50 / 26.9 mm and 2 sunk Allen (hex) screws M 8 / 70 mm (centered bore at plate and centering pin at small pipe prevents slipping when mounting the pipe).

Item no.	Price
5460 0841	on enquiry



Wall mounting

for pipes 42.4/2 mm. 180/90 mm backplate. Nosing / Middle hole 35 mm

Item no.	Price each
5460 0720	on enquiry



Plug – cambered

Item no.	for pipe mm *	Price each
5460 0250	42,4 / 2	on enquiry



Pipe holder. for Pipes 42.4 mm

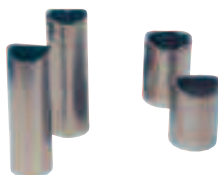
Measurements: L 130 mm B 60 mm T 95 mm. To wall 40 mm. Center hole for point welding

Item no.	Price each
5460 0710	on enquiry



Distance pods. Ø 20 mm

Item no.	Length mm	for pipe mm	Price each pair
5460 0860	25	42,4 u.	33,7 on enquiry
5460 0870	70	42,4 u.	33,7 on enquiry



Jowl fixing plate

Diameter 100 mm, without distance pods

Item no.	Price each
5460 0840	on enquiry





Components and End fittings

Stainless steel, K 240 matte

DoStructa

Hollow balls, with thread

Item no.	Ball Diameter mm	Thread	Price each
5461 6060	60	M8	Price on enquiry
5461 6075	75	M8	Price on enquiry
5461 6100	100	M10	Price on enquiry



Massive balls, turned finished-matte, with sack thread

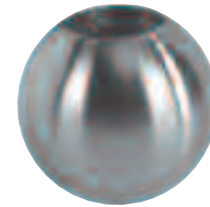
Item no.	Ball Diameter mm	Thread	Price each
5461 6015	15	M6	Price on enquiry
5461 6020	20	M6	Price on enquiry
5461 6025	25	M6	Price on enquiry
5461 6030	30	M6	Price on enquiry
5461 6040	40	M8	Price on enquiry
5461 6050	50	M8	Price on enquiry



Massive ball with bore for round materials 12 and 14 mm

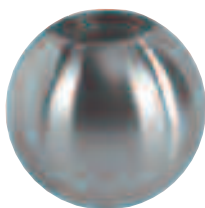
Item no.	Ball Diameter mm	Round material	Price each
5462 6030	30	14 mm	on requ.
5462 6025	25	12 mm*	on requ.

*(without adjusting screw)



Decorative massive balls, with sack bore for glueing, matte

Item no.	Ball Diameter mm	Sack bore Ø mm	Price each
5462 6021	20	10,2	Price on enquiry
5462 6022	25	12,2	Price on enquiry
5462 6023	25	14,2	Price on enquiry



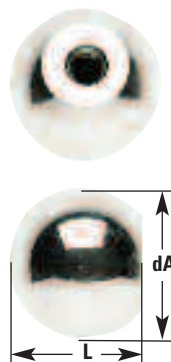
Pipe cardan coupling (clamp technique), for pipe 42.4/2-2.6 mm, adjustable from 90 - 270°

Item no.	Price each
54604410	on enquiry



Ball nut with sack hole-interior thread, Material 1.4401

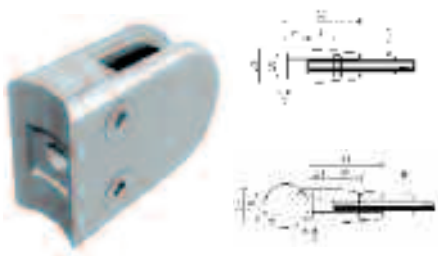
Item no.	Thread	dA mm	L mm	Price each
1477 9154	M 4	15	14,0	Price on enquiry
1477 9205	M 5	20	18,5	Price on enquiry
1477 9245	M 5	24	22,0	Price on enquiry
1477 9206	M 6	20	18,5	Price on enquiry
1477 9246	M 6	24	22,0	Price on enquiry
1477 9248	M 8	24	22,0	Price on enquiry
1477 9240	M 10	24	22,0	Price on enquiry



Glassholders

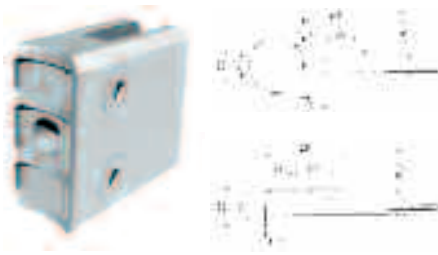
DoStructa

Glassholder, with safety pin



Item no.	for Glass width mm	Variant	Connector	Price each
5460 2720	8	Stainless steel effect	Pipe 42,4	Price on enquiry
5460 2850	8	Stainless steel effect	Pipe 33,7	
5460 3240	8	Zinc unfinished	Pipe 42,4	
5460 2750	8	Stainless steel effect	flat	
5460 3360	8	Zinc unfinished	flat	
5460 3380	8	Zinc white	flat	
5460 2761	Rubber inlay 6 mm for on-site replacement			

Glassholder, with safety pin



Item no.	for Glass width mm	Variant	Connector	Price each
5460 2930	8	Stainless steel effect	Rohr 42,4	Price on enquiry
5460 2770	8	Stainless steel effect	flach	
5460 3400	8	Zinc unfinished	flach	
5460 3411	Rubber inlay 6 mm for on-site replacement			

Glassholder, stainless steel, massive, K 240 matte, without safety pin



Item no.	for Glass width mm	Variant	Connector	Price each
5460 2730	8	V4A	Pipe 42,4	Price on enquiry
5460 3900	8 - 10	V4A	Pipe 42,4	
5460 3010	8	V4A	flat	
5460 3910	8 - 10	V4A	flat	
5460 3011	Rubber inlay 6 mm for on-site replacement			

Maxi-Brand-Glassholder, with safety pin



Item no.	for Glass width mm	Variant	Connector	Price each
5460 2960	8	Edelstahleffekt	Rohr 38-48	Price on enquiry
5460 2800	8	Edelstahleffekt	flach	
5460 2970	10	Edelstahleffekt	38-48	
5460 2810	10	Edelstahleffekt	flach	
5460 3180	8	Edelstahl V4A	38-48	
5460 3190	10	Edelstahl V4A	Rohr 38-48	
5460 3920	8 - 10	Edelstahl V4A	Rohr 42,5	
5460 3930	8 - 10	Edelstahl V4A	flach	
5460 3470	8	Zink roh	Rohr 38-48	
5460 3260	10	Zink roh	Rohr 38-48	
5460 3440	8	Zink roh	flach	
5460 3370	10	Zink roh	flach	

Fixing screw for Glassholder VZ. M8 x 20 mm

Item no.	Price each
5460 0940	on enquiry



Components for glass signs

Stainless steel 14301

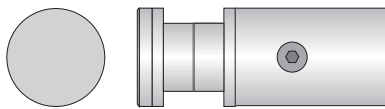
DoStructa



Universal glass sign holder

for 4 to 12 mm Glass, 20 mm wall distance with flat head and safety screw

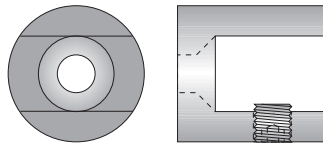
Item no.	round pin mm	Price each
5464 0113	13	on enquiry
5464 0118	18	on enquiry



Glasstop holder

for 2 to 10 mm Glass, 5 mm wall distance with Polyamide Allen clamp screw

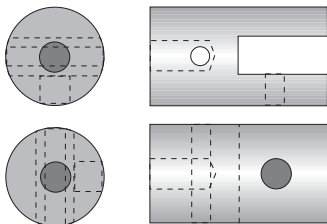
Item no.	round pin mm	Price each
5464 0218	18	on enquiry



One-sided wire rope grips

for Displays (to 5 mm material width), with flat head and clamp screws

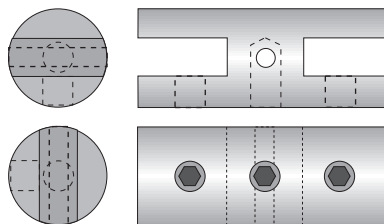
Item no.	round pin mm	Price each
5464 0313	13	on enquiry



Two-sided wire rope grips

for Displays (to 5 mm material width), with flat heads and clamp screws

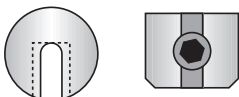
Item no.	round pin mm	Price each
5464 0413	13	on enquiry



Wire rope grips

as Glasstop holder for 2 mm wire rope and clamp screw

Item no.	round pin mm	Price each
5464 0513	13	on enquiry



Stainless steel wire rope DoVier 707

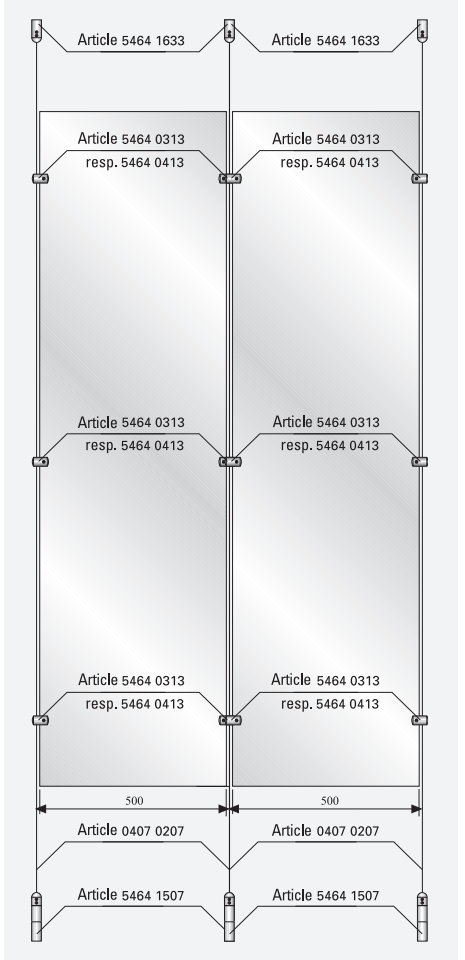
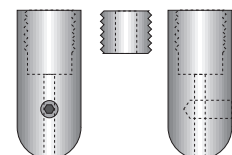
2 mm diameter, Material 1.4401. Wire rope 6 x 7 strands. IWRC

Item no.	length m	Price each
0407 0207	1	Price on enquiry
0407 0207	2	
0407 0207	3	
0407 0207	4	
0407 0207	5	

Ceiling fixing

with round head, 2-piece w. clamp screw

Item no.	round pin mm	Length mm	Price each
for 2 mm Wire rope			
5464 0615	15	33	on enquiry
for 4 mm Round pipe pin			
5464 0625	25	38	on enquiry



Components for glass signs and acrylic signs

Stainless steel 14301

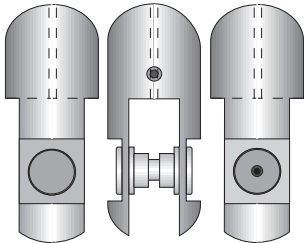
DoStructa



Glass fixing

for 2x5 or 1x10 mm Glass, acrylic bearing and thread pins for 2mm wire rope

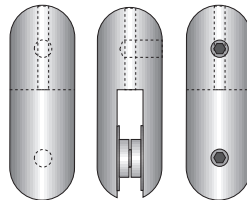
Item no.	round pin mm	Length mm	Price each
5464 0725	25	68	on enquiry



Glass fixing

for 5 mm Glass, with acrylic bearing and thread pins for 2 mm wire rope

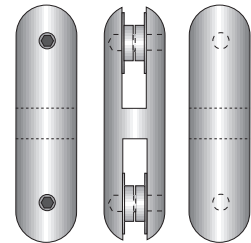
Item no.	round pin mm	Length mm	Price each
5464 0845	15	45	on enquiry



Glass coupling

for 5 mm Glass, with acrylic bearing and thread pins

Item no.	round pin mm	Length mm	Price each
5464 0858	15	58	on enquiry



Round pipe bar

for use as fixed hanging pendulum

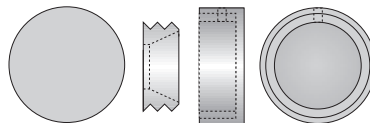
Item no.	round pin mm	Length mm	Price each
5464 0904	4	1000	on enquiry



Decorative nut

2-piece, with flat head for 1 to 10mm material with counterclockwise thread

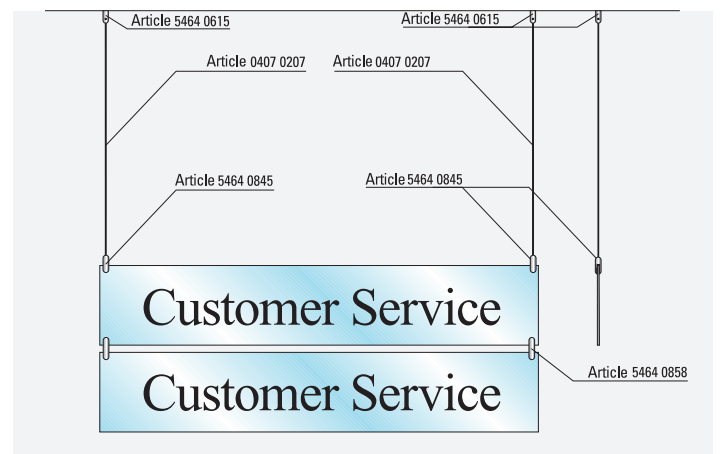
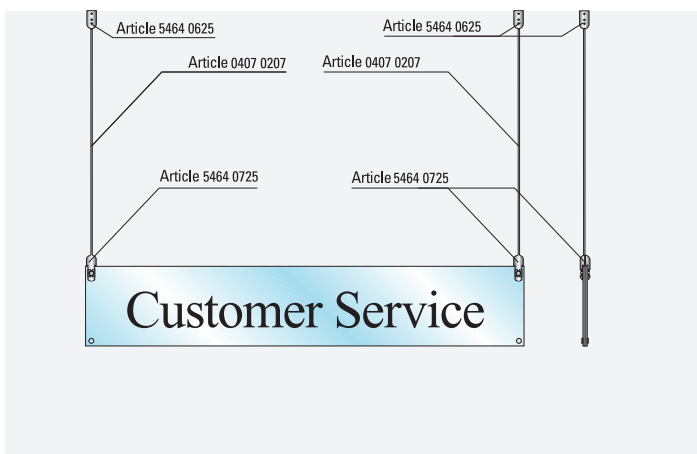
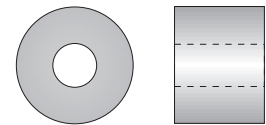
Item no.	round pin mm	Price each
5464 1013	13	on enquiry
5464 1018	18	on enquiry
incl. Allen safety screw M 3x3		
5464 1015	15	on enquiry
5464 1020	20	on enquiry

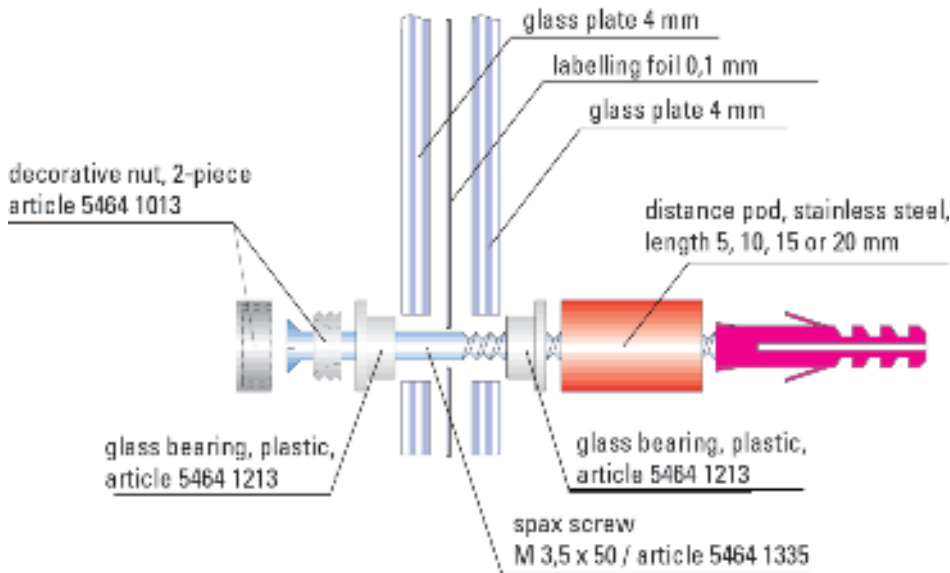


Distance pod

for decorative nut, round pin

Item no.	for Wall distance mm	13 mm Price/Piece	18 mm Price/Piece
5464 1105	5	Price on enquiry	Price on enquiry
5464 1110	10		
5464 1115	15		
5464 1120	20		

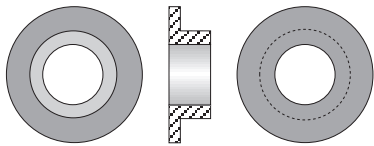




Acrylic glass - glass bearing

from 5mm Glass width with 10/13 mm Ø hole bore

Item no.	Diameter mm	Hole bore mm	Price each
5464 1213	13	7,45	on enquiry
5464 1218	18	14,05	on enquiry



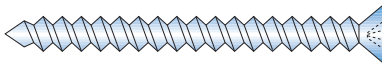
Spax screw

Phillips sunk head, SS, M 3.5x50 for decorative nut 5464 1013 and 5464 1018

Item no.	Dimensions mm	Price/Pack of 100 Pcs.
5464 1335	3,5x50	on enquiry

Torx sunk head, SS, M 3.0x40. Fits Glass sign holder 5464 0113 and 5464 1018

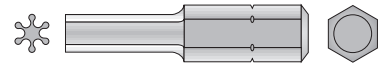
Item no.	Dimensions mm	Price/Pack of 100 Pcs.
5464 1330	3,0x40	on enquiry



Torx-Bit Tool

fits Torx-Spax screw M 3.0x40

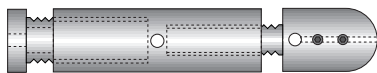
Item no.	Dimensions mm	Price each
5464 1480	8 x 40	on enquiry



Turnbuckle

for floor or ceiling mounting, for 2mm wire rope with round head and 2 clamp screws

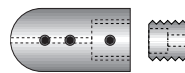
75 mm long	round pin mm	Price each
Item no. 5464 1507	15	on enquiry
125 mm long	round pin mm	Price each
Item no. 5464 1512	25	on enquiry



Ceiling-/Floor fixing

with round head 2-piece for 2mm wire rope with 2 clamp- and 1 safety screw

33 mm long	round pin mm	Price each
Item no. 5464 1633	15	on enquiry
50 mm long	round pin mm	Price each
Item no. 5464 1650	25	on enquiry



Wall connector

Round head, 2-part 62.5 mm long with connecting screw

for wall mounting of Article 5464 1507 and 5464 1633

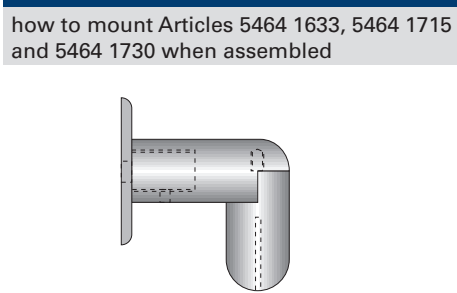
Item no.	round pin mm	Price each
5464 1715	15	on enquiry

for wall mounting of Article 5464 1512 and 5464 1650

Item no.	round pin mm	Price each
5464 1725	25	on enquiry



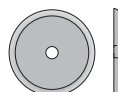
Example for use



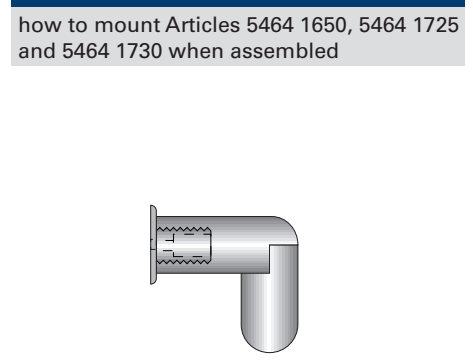
Stability / Mounting Disc

for Article 5464 1730

Item no.	Price/Packaging unit 2 Pcs.
5464 1730	on enquiry



Example for use



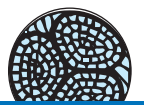
Fibre ropes, braided Yard goods

DoFas



Hemp ropes which have come in contact with aggressive agents must be disposed of.

Natural fibre ropes may rot – always hang up wet ropes for drying.

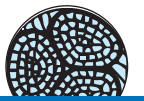


Hemp ropes DIN EN 1261 Form B 4-stranded

Rope nominalØ mm	Rope weight kg per 100 m	Rope minimum Breaking strength daN	Item No.	Price per 100 m
6	2,70	235	0725 0601	Price on enquiry
8	4,70	450	0725 0801	
10	7,40	700	0725 1001	
12	11,10	1080	0725 1201	
14	14,10	1485	0725 1401	
16	18,50	1825	07251601	
18	23,00	2250	0725 1801	
20	28,50	2780	0725 2001	
22	34,50	3240	0725 2201	
24	41,00	3980	0725 2401	
26	48,50	4600	0725 2601	
28	56,00	5410	0725 2801	
30	64,00	6180	0725 3001	
32	73,50	7000	0725 3201	
36	93,00	8560	0725 3601	
40	115,00	9980	0725 4001	
44	138,00	11800	0725 4401	
48	166,00	14100	0725 4801	
52	192,00	16700	0725 5201	
56	224,00	19100	0725 5601	

Polypropylene-Ropes DIN EN ISO 1346 Form A 3-stranded

Rope nominalØ mm	Rope weight kg per 100 m	Rope minimum Breaking strength KN	Item No.	Price per 100 m
6	1,70	5,92	0732 0601	Price on enquiry
8	3,00	10,1	0732 0801	
10	4,50	15,4	0732 1001	
12	6,50	21,6	0732 1201	
14	9,00	28,9	0732 1401	
16	11,50	37,0	0732 1601	
18	14,80	46,2	0732 1801	
20	18,00	56,1	0732 2001	
22	22,00	67,1	0732 2201	
24	26,00	78,8	0732 2401	
26	30,50	91,5	0732 2601	
28	35,50	105	0732 2801	
30	40,50	119	0732 3001	
32	46,00	134	0732 3201	
36	58,50	167	0732 3601	
40	72,00	204	0732 4001	
44	88,00	243	0732 4401	
48	104,00	286	0732 4801	
52	122,00	332	0732 5201	
56	142,00	381	0732 5601	

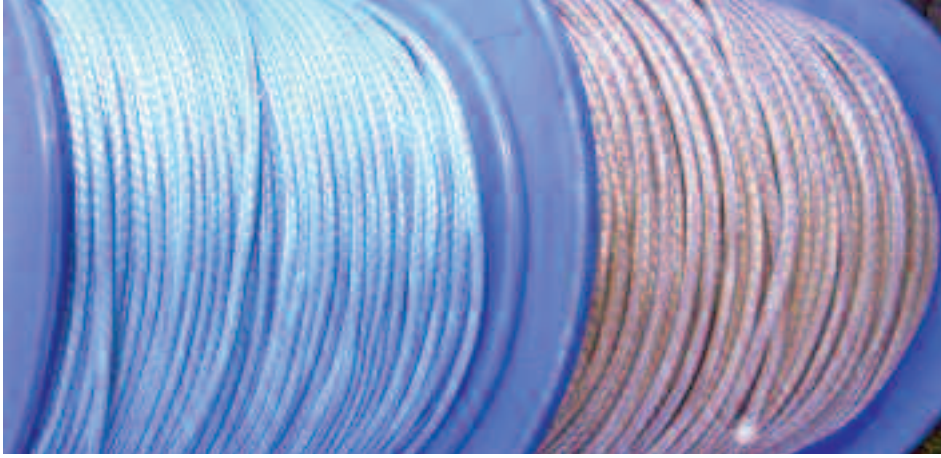


Polyester-Ropes DIN EN ISO 1141 Form A 3-stranded

Rope nominalØ mm	Rope weight kg per 100 m	Rope minimum Breaking strength KN	Item No.	Price per 100 m
4	1,45	2,80	0731 0401	Price on enquiry
6	3,00	6,08	0731 0601	
8	5,10	10,5	0731 0801	
10	8,10	16,2	0731 1001	
12	11,60	23,0	0731 1201	
14	15,70	30,9	0731 1401	
16	20,50	39,8	0731 1601	
18	26,00	49,9	0731 1801	
20	32,00	61,0	0731 2001	
22	38,50	73,1	0731 2201	
24	46,00	86,1	0731 2401	
26	54,00	101	0731 2601	
28	63,00	116	0731 2801	
30	72,00	132	0731 3001	
32	82,00	150	0731 3201	
36	104,00	188	0731 3601	
40	128,00	230	0731 4001	
44	155,00	276	0731 4401	
48	185,00	326	0731 4801	
52	215,00	380	0731 5201	
56	251,00	437	0731 5601	

Polyamide-Ropes DIN EN ISO 1140 Form A 3-stranded

Rope nominalØ mm	Rope weight kg per 100 m	Rope minimum Breaking strength KN	Item No.	Price per 100 m
4	1,05	3,70	0730 0401	Price on enquiry
6	2,25	7,93	0730 0601	
8	4,00	13,8	0730 0801	
10	6,20	21,2	0730 1001	
12	8,90	30,1	0730 1201	
14	15,80	40,0	0730 1401	
16	20,00	51,9	0730 1601	
18	24,50	64,3	0730 1801	
20	30,00	79,2	0730 2001	
22	39,50	94,0	0730 2201	
24	42,00	112	0730 2401	
26	48,50	129	0730 2601	
28	55,50	149	0730 2801	
30	63,00	169	0730 3001	
32	79,00	192	0730 3201	
36	80,00	240	0730 3601	
40	99,00	294	0730 4001	
44	120,00	351	0730 4401	
48	142,00	412	0730 4801	
52	166,00	479	0730 5201	
56	196,00	550	0730 5601	



Special-Fibre ropes made of Dyneema Dyna One Dyna Coat

DoFas

Dyna One, 12-times woven from 100 % Dyneema SK 75 Fibres. Standard length: 200 m

Item no.	Rope Diameter mm	Weight kg/100 m	Breaking load daN	Price per 100 m
0723 0401	4	0,79	1200	Price on enquiry
0723 0501	5	1,44	2300	
0723 0601	6	2,04	2700	
0723 0801	8	3,70	5000	
0723 1001	10	5,80	8500	
0723 1201	12	8,90	11500	
0723 1401	14	11,80	15500	
0723 1601	16	15,60	20500	
0723 1801	18	21,00	26500	
0723 2001	20	24,90	31200	
0723 2201	22	30,80	37750	
0723 2401	24	36,00	44000	

Dyna Coat, with 12-times woven core of Dyneema SK 75 and Polyester interlay and covering. Standard length: 200 m

Item no.	Rope Diameter mm	Weight kg/100 m	Breaking load daN	Price per 100 m
0724 0401	4	1,0	700	Price on enquiry
0724 0501	5	2,1	1200	
0724 0601	6	2,6	1650	
0724 0801	8	4,0	3000	
0724 1001	10	6,8	5100	
0724 1201	12	9,9	7500	
0724 1401	14	13,3	9500	
0724 1601	16	17,5	12000	
0724 1801	18	22,3	15000	
0724 2001	20	28,0	19000	
0724 2201	22	32,7	23000	
0724 2401	24	38,9	25500	

Other rope diameters available on enquiry. We can also supply ready-made ropes with spliced eyes or stainless steel-thimbles.

Synthetic Fibres in comparison

Qualities	Polyamide 66	Polyester	Polypropylene	Dyneema SK75
spec Weight. [kg/cdm]	1.14	1.38	0.91	0.97
Loss of strength by humidity ca. %	5-10	0	0	0
Knotting resistance ca.%	60-65	55-60	55-65	50
UV-Resistance	good	very good	good when UV-equipped	very good
Breaking elongation ca.%	16-27	10-16	14-24	3.8
Abrasion resistance	very good	good	satisfactory	Dyna One: good Dyna Coat: very good
Temperature range ca. °C	-20/+130	-20/+170	-20/+80	-20/+70
Softening temp. ca. °C	170	225	140	130
Melting point ca. °C	250	260	170	160

Fibre material

Dyneema SK75 is a Polyethylene with a high breaking load (360 daN/mm²). The breaking load is 3 to 4 times higher compared to a conventional fibre rope of the same diameter made from Polyester or Polyamide. It is also characterized by an excellent breaking elongation of only 3.8 %, which makes Dyneema, in combination with its high abrasion resistance, the ideal choice rope for e.g. sailing.

The variant Dyna Coat has added abrasion resistance due to its Polyester interlay and covering.

Industrial applications include the use of Dyneema ropes, e.g as cable pull ropes or pull winch ropes.

Material Highlights:

UV-resistance:	very good
Resistance to alkalines:	very good
Acidic resistance:	very good
Resistance to Oil/Gasolinet:	very good
Knotting resistance:	ca. 50 %

Both version can easily be spliced (please follow manual for splicing)!



Fibre rope slings according to DIN EN 1492-4

DoFas

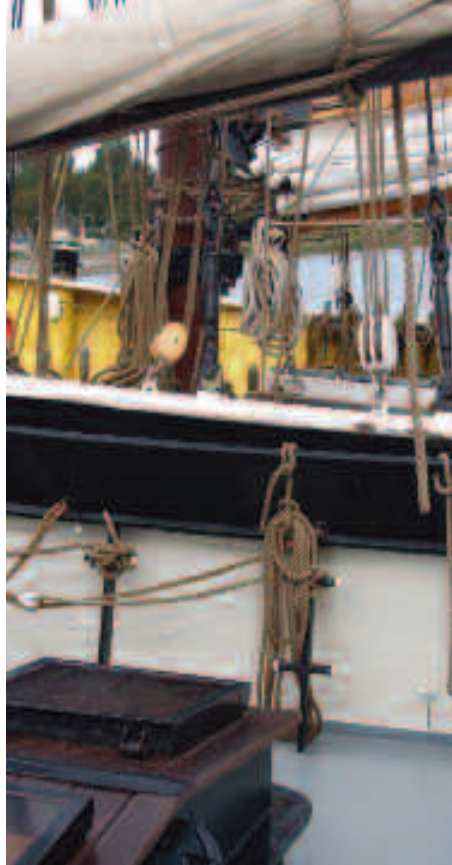
Your advantages:

- excellent grip
- good flexibility
- low weight
- protects goods to be loaded

Choose the right rope when using ropes that may come in contact with chemical agents (please inquire with Dolezych staff for suitable ropes).

Fibre rope slings can be used in a temperature range from -40°C to +80°C without loss of load-carrying capacity. The use of fibre rope slings outside the temp range mentioned above is not allowed.

Ropes with broken strands, yarn breakages (more than 10% of total yarn number), heat deformations, loosened splices or any damages due to aggressive agents have to be disposed of immediately.



Hemp fibre rope slings are produced in variants with 2 eyes and endless short splices from 4-shanked ropes.

For all other variants and materials the load-carrying capacities of 3-shanked ropes are in effect. Please inquire about the carrying capacity of e.g. Kevlar at Dolezych. For further hints, please refer to section BGR 152 of BG.

*please insert the desired length into the Item no. of different variants (e.g. 1.0 m "10", from 10.0m on "99" and add the length additionally). Please provide the complete Item no. when placing your order-

Fibre rope slings

Please complete the Item no. with the desired rope length

Rope nominal Dia-meter mm	Capacity in kg at angle of 0°	2 Eyes		Base price/ 1 m	Price each add'l metre	Capacity in kg at endless angle of 0°	at 1 m		Base price/ 1 m	Price each add'l metre	
		Item no.	Item no.				endless	long splice			
16	225	1725 16..*		Price on enquiry	Price on enquiry	450	2725 16..*	270	3725 16..*	Price on enquiry	Price on enquiry
20	315	1725 20..*				630	2725 20..*	380	3725 20..*		
24	450	1725 24..*				900	2725 24..*	540	3725 24..*		
28	630	1725 28..*				1260	2725 28..*	760	3725 28..*		
32	810	1725 32..*				1620	2725 32..*	970	3725 32..*		
36	1080	1725 36..*				2160	2725 36..*	1300	3725 36..*		
40	1260	1725 40..*				2520	2725 40..*	1510	3725 40..*		
48	1800	1725 48..*				3600	2725 48..*	2160	3725 48..*		
16	680	1730 16..*				Price on enquiry	Price on enquiry	1350	2730 16..*		
20	1100	1730 20..*		2200	2730 20..*			1320	3730 20..*		
24	1500	1730 24..*		3000	2730 24..*			1800	3730 24..*		
28	2100	1730 28..*		4200	2730 28..*			2520	3730 28..*		
32	2600	1730 32..*		5200	2730 32..*			3120	3730 32..*		
36	3200	1730 36..*		6400	2730 36..*			3840	3730 36..*		
40	3800	1730 40..*		7600	2730 40..*			4560	3730 40..*		
48	5400	1730 48..*		10800	2730 48..*			6480	3730 48..*		

Hemp DIN EN 1261



Polyamide DIN EN ISO 1140





Fibre rope slings DIN 1492-4

DoFas



Always protect fibre ropes made from natural or chemical fibres from heat, humidity and aggressive agents, e.g. chlorine, acids or alkaline solutions!

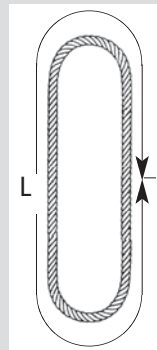
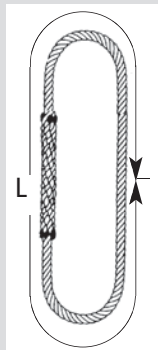
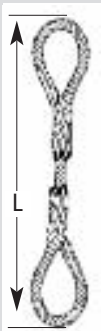
Exemplary order:

You would like to order
1 piece polyester rope, endless with long splice,
24 mm Ø, 4 m circumference.

Your order would look like this:
1 piece Art.- No. 3731 2440,
4 m circumference.

Fibre rope slings

Please complete the Item no. with the desired rope length



Rope nominal in kg	Capacity at angle of 0°	2 eyes		Capacity in kg at angle of 0°	endless short splice		Capacity in kg at angle of 0°	endless long splice	
		Item no.	Base price/ 1 m		Price each add'l metre	Item no.		Base price/ 1 m	Item no.
16	520	1731 16..*	Price on enquiry	1050	2731 16..*	Price on enquiry	630	3731 16..*	Price on enquiry
20	800	1731 20..*		1600	2731 20..*		960	3731 20..*	
24	1200	1731 24..*		2400	2731 24..*		1440	3731 24..*	
28	1500	1731 28..*		3000	2731 28..*		1800	3731 28..*	
32	2000	1731 32..*		4000	2731 32..*		2400	3731 32..*	
36	2500	1731 36..*		5000	2731 36..*		3000	3731 36..*	
40	3000	1731 40..*		6000	2731 40..*		3600	3731 40..*	
48	4300	1731 48..*		8600	2731 48..*		5160	3731 48..*	
16	480	1732 16..*	Price on enquiry	9650	2732 16..*	Price on enquiry	580	3732 16..*	Price on enquiry
20	750	1732 20..*		1500	2732 20..*		900	3732 20..*	
24	1100	1732 24..*		2200	2732 24..*		1320	3732 24..*	
28	1400	1732 28..*		2800	2732 28..*		1680	3732 28..*	
32	1700	1732 32..*		3400	2732 32..*		2040	3732 32..*	
36	2200	1732 36..*		4400	2732 36..*		2640	3732 36..*	
40	2600	1732 40..*		5200	2732 40..*		3120	3732 40..*	
48	3700	1732 48..*		7400	2732 48..*		4440	3732 48..*	

The inspection of fibre rope rope slings requires particular diligence. It is to be carried out according to inspection regulations by trained personnel having the required expertise only. Please inquire.

Polyester DIN EN ISO 1141



Polypropylene DIN EN ISO 1346



Fibre ropes, braided Yard goods

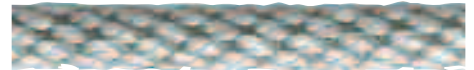
DoFas



PES – Sling braid, white

16-times braided, thermically set. Extremely stable shape due to sling braiding, stays true to form, eg. as motor drive rope.

Item no.	Rope Ø mm	breaking strenght daN	Price / 100m
0731 0403	4	250	Price on enquiry
0731 0502	5	400	
0731 0602	6	450	
0731 0702	7	650	
0731 0802	8	880	
0731 0902	9	1020	
0731 1002	10	1200	
0731 1202	12	1700	



PP – Universal

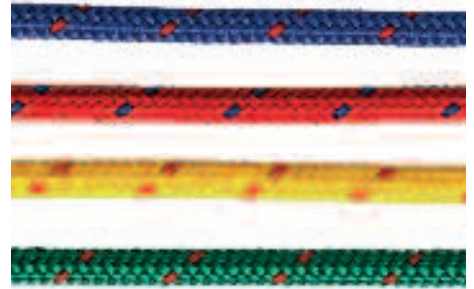
16-times braided, UV-stabilized, waterproof, floating.

Color variants: red / blue / green and yellow. Red with blue tracer thread, blue, green and yellow with red tracer thread.

From 6 mm rope diameter on with woven core.

Please indicate desired color when placing your order!

Item no.	Rope Ø mm	breaking strenght daN	Price / 100m
0732 0201	2	100	Price on enquiry
0732 0301	3	180	
0732 0404	4	300	
0732 0605	6	400	
0732 0810	8	800	
0732 1006	10	950	
0732 1207	12	1200	
0732 1402	14	1500	



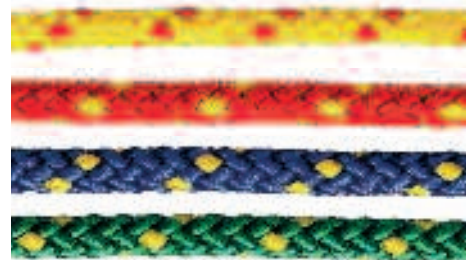
PP – Unisoft

16-times braided, UV-stabilized, waterproof. floating, soft and malleable.

Color variants: white moonchrome, yellow, (with red tracer thread), red / blue / green (with yellow tracer thread)

Please indicate color when ordering!

Item no.	Rope Ø mm	breaking strenght daN	Price / 100m
0732 0604	6	350	Price on enquiry
0732 0809	8	750	
0732 1005	10	950	
0732 1204	12	1200	



PP – Monofil

8-times hollow braided. without core, easy formation of eyes and slings by simply pushing through the rope end, capable of floating.

Item no.	Rope Ø mm	breaking strenght daN	Color	Price/100m
0732 0603	6	450	orange	Price on enquiry
0732 0807	8	630	white	
0732 0808	8	630	orange	
0732 1002	10	950	white	
0732 1004	10	950	orange	
0732 1602	16	2300	white	
0732 1604	16	2300	orange	



Chains



Chain Slings

grade 80 and 100

Chain Accessories:

Chains (yard goods)

Hooks

Coupling Links

Master Link Assemblies

Sling Swivels

Chain Sling Systems

DoKett 1+2
DoComfort

Dolezych offers three different chain systems of grade 80 to DIN EN 818-4.

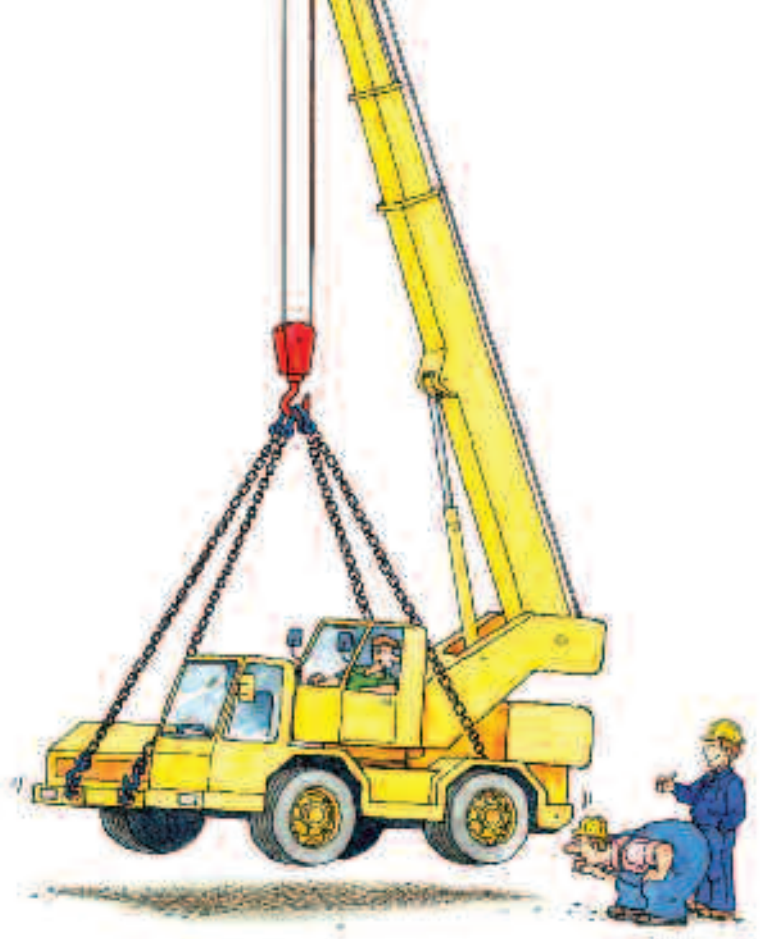
The grade 800 is a proven quality standard for chain slings, because this classification stands out through high stability, low dead weight, extra joint hardening, high wear resistance and a wide range of accessories. Due to the universal DoKett 1 system, all parts can be combined together by means of coupling links. The DoKett 2 system is unambiguous, because it only allows to link parts of identical nominal size.

DoComfort- grade 100

Compared to grade 80, grade 100 chains provide a higher carrying capacity and therefore they have been used for many years. Chain materials got a particular alloying process that results in a higher wear resistance, assured strength and 25% higher carrying capacity. Compared to grade 80, the equivalent carrying capacity results lower own weight, even though measurements and shaping are equivalent to the grade 80. CoComfort chain slings are suitable for heat application up to 400° C, but please pay attention to loss of carrying capacity!

Relating to grade 1 DIN EN 818-1, no details are defined about requirements and inspection procedures. And this – depending on respective manufacturing - often results in deviations of measurements and shape. Please take note that combining chains from different manufacturers strictly requires first the consulting of the manufactures, also second the manufacture's release.

In April 2006, the PAS 1061 (PAS = Publicly Available Specification) was published. This PAS 1061 completes the standards of the series referring to DIN EN 818, and defines in detail the requirements for short link and medium tolerance round link chains which can be used for chain slings and for general lifting purposes.



The **DoComfort** product range (chains and accessories) applies to these specifications and even gets ahead of them relating to temperature resistance (400° C instead of 380° C). Since April 2004, this system replaces the prototype certificate of grade 100 by North German Employees Insurance Association for Metal Working Industry (NMBG) showing as a decagonal carrying capacity labeling. Combining chains and components from different type series is only permitted with prior release given by Dolezych.

A lot of possible combinations of chain components

No matter whether DoKett 1, DoKett 2 or DoComfort : the range of accessories is tremendous.

Different hook types, shortening options, master links, twist arrestors, and so on...

Customized chain slings assembled for your particular area of use can surely be assembled.

Dolezych advisory service

No matter which kind of chain system is selected - Dolezych can always provide guidance based on their well-grounded experiences. Take advantage of this opportunity!

New: DoKettPlus chain components with higher carrying capacity.

DoKettPlus components basically meet all the requirements of the grade 100 and that results in 25%

higher carrying capacity compared to equivalent components of grade 8. Therefore, they can also be used up to 400°C (Please pay attention to loss of carrying capacity!).

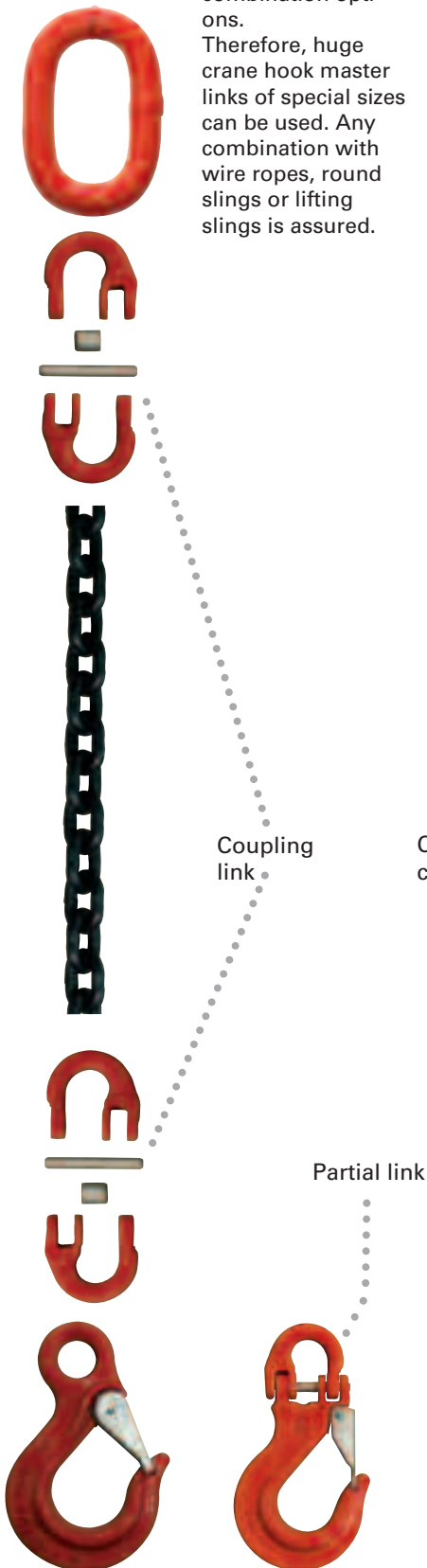
You will find DoKettPlus-components on pages 400-403!

Three different types of chain systems

DoKett 1

The universal system of grade 80 is DoKett 1. The linking of each single chain component together with the universal coupling link results in unlimited possible combination options.

Therefore, huge crane hook master links of special sizes can be used. Any combination with wire ropes, round slings or lifting slings is assured.



DoKett 2

Non-confusable system

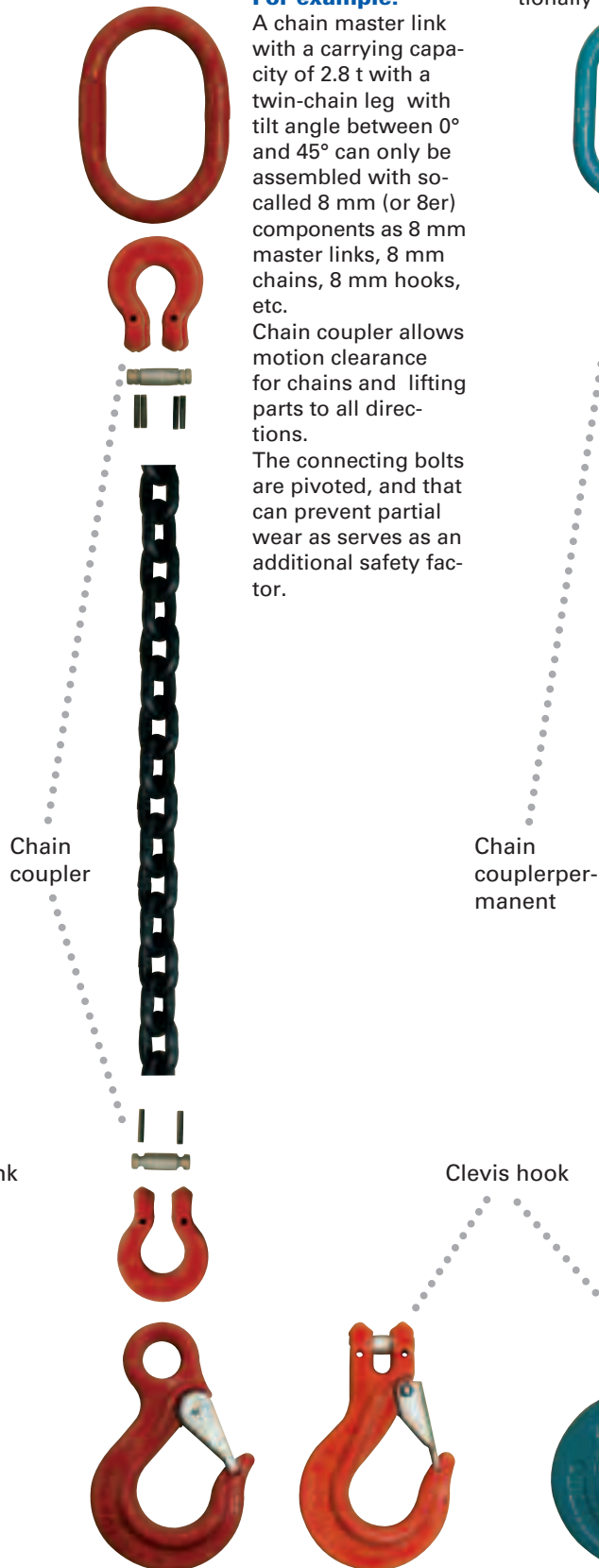
The use of DoKett 2 system avoids mistakes during assembling of chains grade 80, because only the linking of identical chains and components is possible.

For example:

A chain master link with a carrying capacity of 2.8 t with a twin-chain leg with tilt angle between 0° and 45° can only be assembled with so-called 8 mm (or 8er) components as 8 mm master links, 8 mm chains, 8 mm hooks, etc.

Chain coupler allows motion clearance for chains and lifting parts to all directions.

The connecting bolts are pivoted, and that can prevent partial wear as serves as an additional safety factor.



DoComfort

grade 100
Non-confusable system

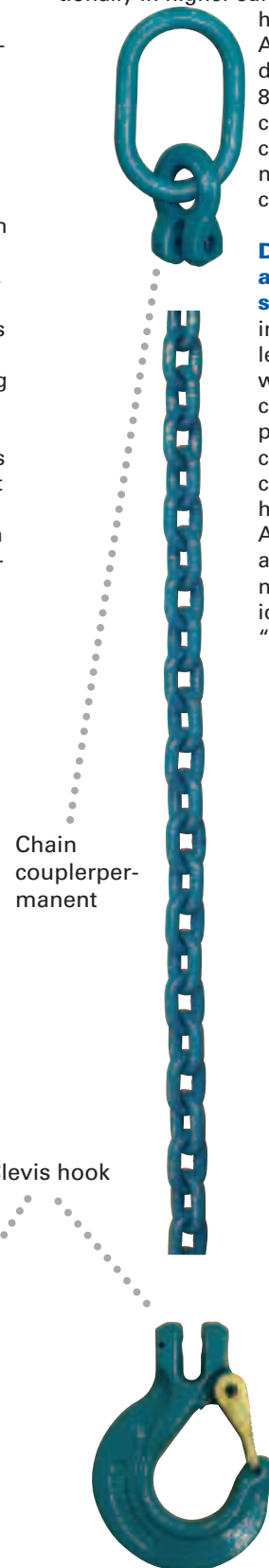
Compared with grade 80 and with identical nominal diameter, the great advantage of DoComfort is that it results in a 25 % higher carrying capacity, and additionally in higher surface hardness and higher strength.

Another DoComfort difference to grade 80 is its choice of color, because chains and components are turquoise colored.

DoComfort is also an non-confusable system:

master link inclusive chain coupler and safety hook with clevis. Only chain legs and components of identical carrying capacity can be linked together.

All chains, as well as all other components can each be identified by the BG "8E" label.



Inspections Carrying capacity comparison



Safety is of vital interest – therefore inspections are needed!

DoKett 1 + 2 to grade 80 and DoComfort to grade 100 are high-strength and hardened chains which are strictly subject to quality inspections relating to all production procedures. Dolezych chains have to pass through the following quality controls:

Proof load

The proof load on all chains is carried out by the 2.5-times the value of the nominal carrying capacity.

Minimum breaking load

Regular sampling from current production for breaking load testing. The breaking load has to correspond to 4-times the value of the carrying capacity.

grade 80 DoComfort Chain nominal size mm	Carrying capacity t	Proof load kN	Minim. break load kN
Faktor	1	2,5	4
6	1,12	28,3	45,2
6	1,40	35,3	56,5
7	1,50	38,5	61,6
8	2,00	50,3	80,4
8	2,50	62,8	101,0
10	3,15	78,5	126,0
10	4,00	98,2	157,0
13	5,30	133,0	212,0
13	6,70	166,0	265,0
16	8,00	201,0	322,0
16	10,00	251,0	402,0
18	10,00	254,0	407,0
18	12,50	318,0	509,0
19	11,20	284,0	454,0
20	12,50	314,0	503,0
22	15,00	380,0	608,0
22	19,00	475,0	760,0



Magnetic fracture testing

According to DIN EN 1677 and DIN 5691, each single component is controlled by a magnetic testing procedure for absence of fractures.

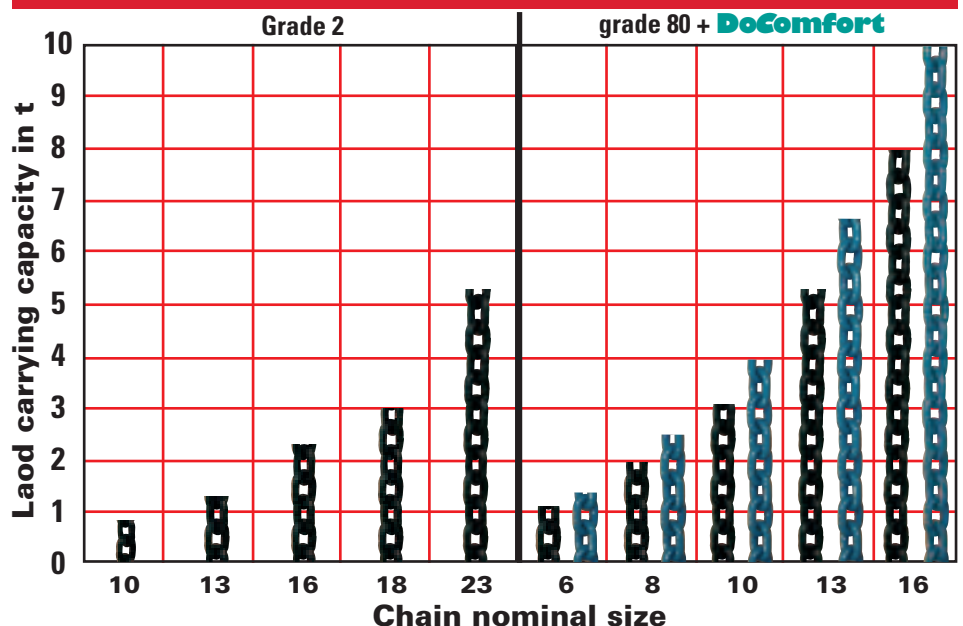
Breaking elongation

Before rupturing, the chain must elongate itself to at least about 20 % as a supplementary security measure. Because of the excess length of chain in case of chain overload, you can recognize any danger of rupture in time. Replace chain immediately!



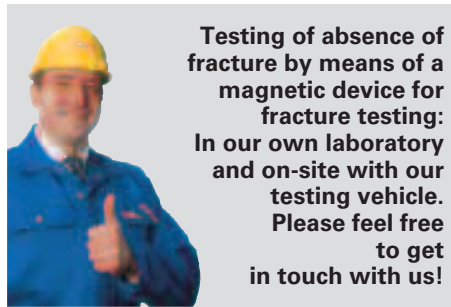
As recommended by the BG, the bolts and chain couplers, also the clevis hooks should be renewed at every inspection.

Comparison of Load Carrying Capacity of Grade 2, grade 80 and DoComfort



Chain Slings Inspections and testing

Dolezych



Excerpt from the Accident Prevention Regulations

BGR 500, Point 2.8 Lifting devices for use as lifting appliances

Inspections

3.15.1

Inspections before initial operation. The company is liable for proper use of lifting devices. Only after inspection was carried out by an expert, also only after remedy of all located deficiencies.

Execution of instructions relating to 3.15.1:

An expert is a person who has vocational experience and well grounded knowledge in the particular fields of lifting devices, and who is familiar with the respective occupational health and safety BG's provisions, accident prevention regulations, directives and the accepted technical rules of (e.g. DIN

EN-standard, VDE-regulations), to appraise the safe condition of the lifting devices.

Technical Expert Appraisal

3.15.2 Regular inspections

3.15.2.1

The company is liable for regular annual inspections of all lifting devices that should be carried out by an expert.

Execution instructions relating to 3.15.2.1:

Particular use conditions of the lifting devices could require more frequent inspection intervals than annually, e.g. in case of heavy use, increased wear, corrosion or heat effects or when expecting any susceptibility to damage.

3.15.2.2

The company is liable for particular inspection testing for the absence of fractures within a 3-years-interval for round steel chains which are used as lifting devices.

Execution instructions relating to 3.15.2.2 :

This inspection can be carried out e.g. by means of a nondestructive testing.

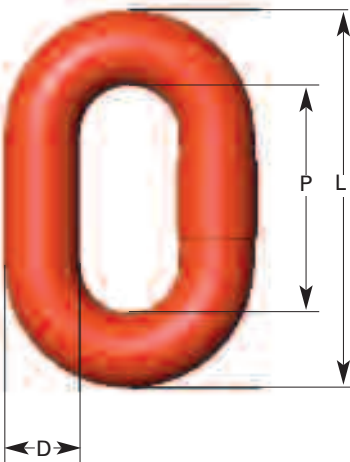
The testing personnel must have valid certification according to EN 473.

Visual inspection

The visual inspection refers to locating externally visible defects, wear and deformations.

Chain Slings have to be disposed of in case of:

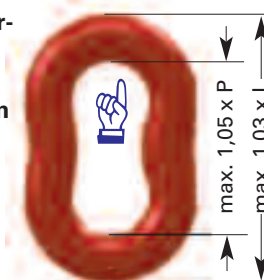
D = Nominal size
P = Pitch (= 3 D)
L = External nominal size



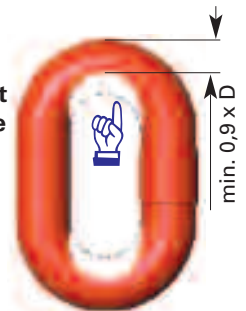
1. Incipient rupture or deformation of any chain link.



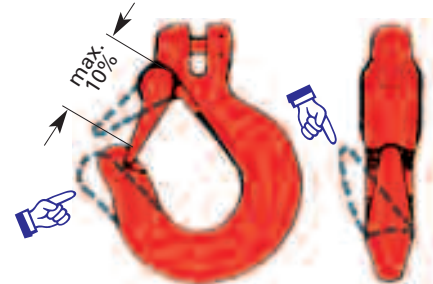
3. Elongation of external nominal size L above 3%. The external elongation of chains of nominal size by 3% is equivalent to the inner elongation by 5%.



2. Reduction of determined link thickness at any point above 10% of the nominal thickness.



4. Expansion of hook opening above 10% or other visible deformations.



Round steel chains

Technical properties and performance comparison charts

Dofett

What kind of chain sling is proper for which area of application?

View our graph showing technical properties of round steel chains.

Round steel chains are made and designed for different application areas. But we recognize that in practice, when carrying out of load carrying tasks by means of chain slings, often the range of performances of different round steel chain systems seems to be an unknown matter. Maybe the reason is that people responsible do not pay enough attention to the accident prevention regulations.

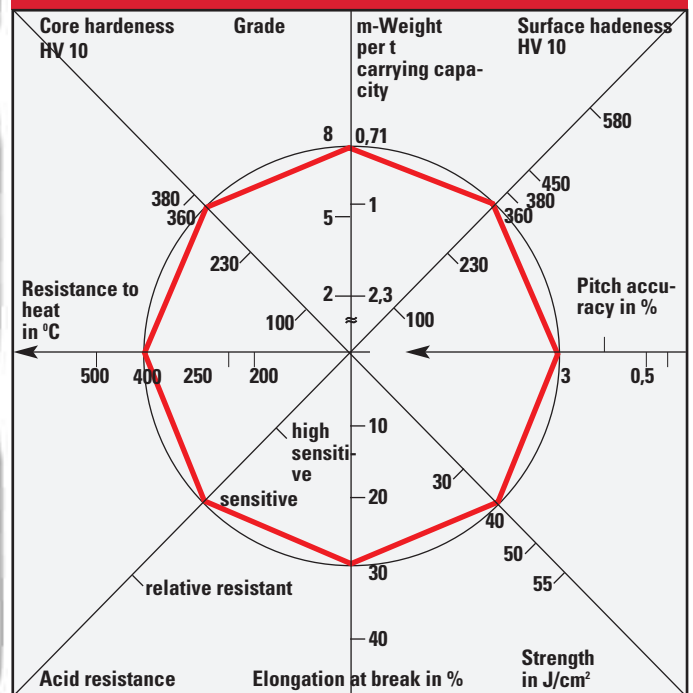
Therefore, the chain graphs show each single property of the different chain types.

Round steel chains are divided in different grades and assigned to their specific area of application, e.g. chain slings and lifting chains. The major properties of round steel chains are displayed as a clockwise and radial system: Grade (strength), surface hardness, pitch accuracy, strength, elongation at break, acid resistance, resistance to heat and core hardness. Besides, the axis of "grade" is switched with the axis of "chain weight per meter length carrying capacity". The entire range of chain systems have in common a high elongation at break at least by 20 %, and this is an substantial quality criterion for chain sling systems to recognize overload in time and also to prevent sudden rupture.

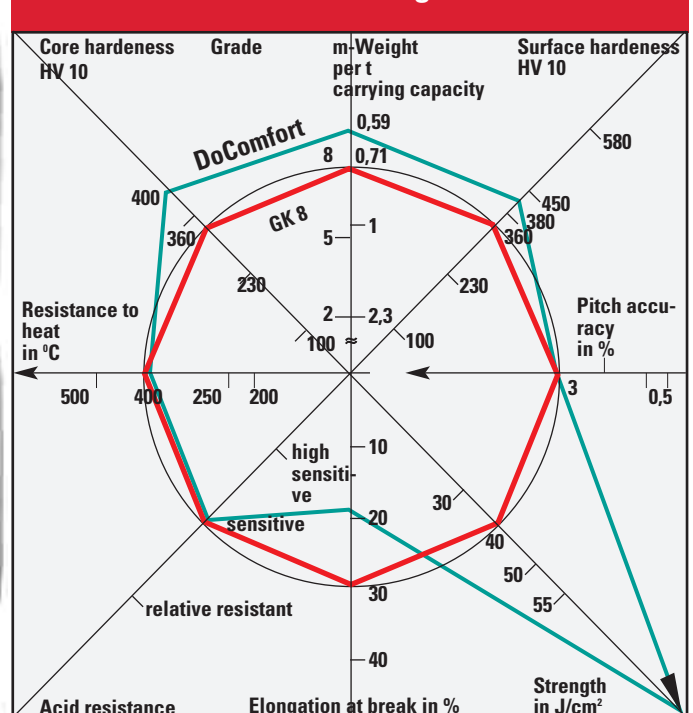


Safety is the result of the interaction of a safety product and safe handling - therefore, always pay attention to the user manual instructions and BG rules!

grade 80, Chain Slings



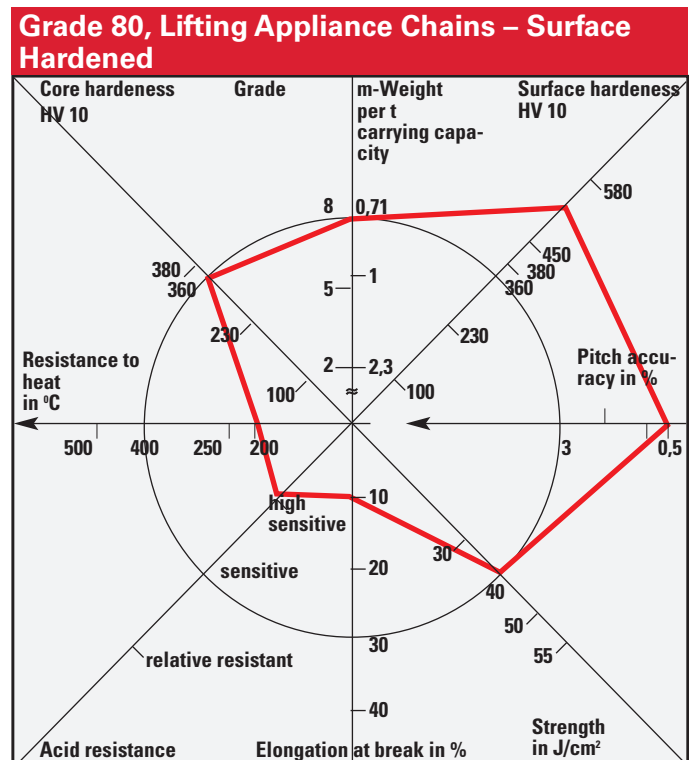
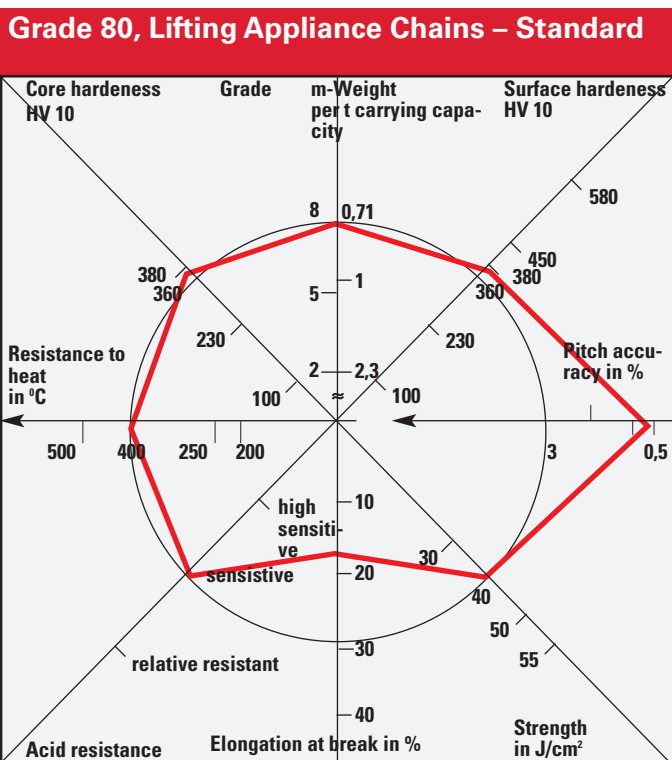
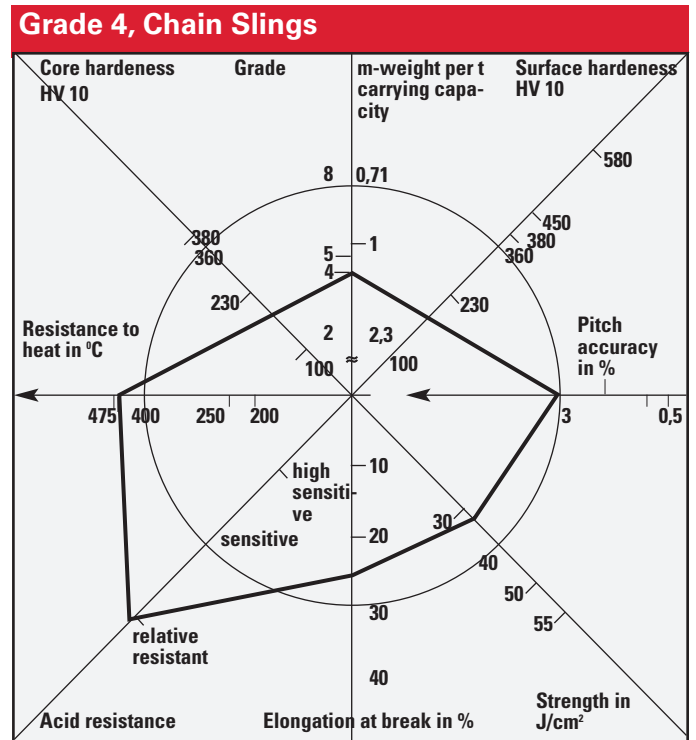
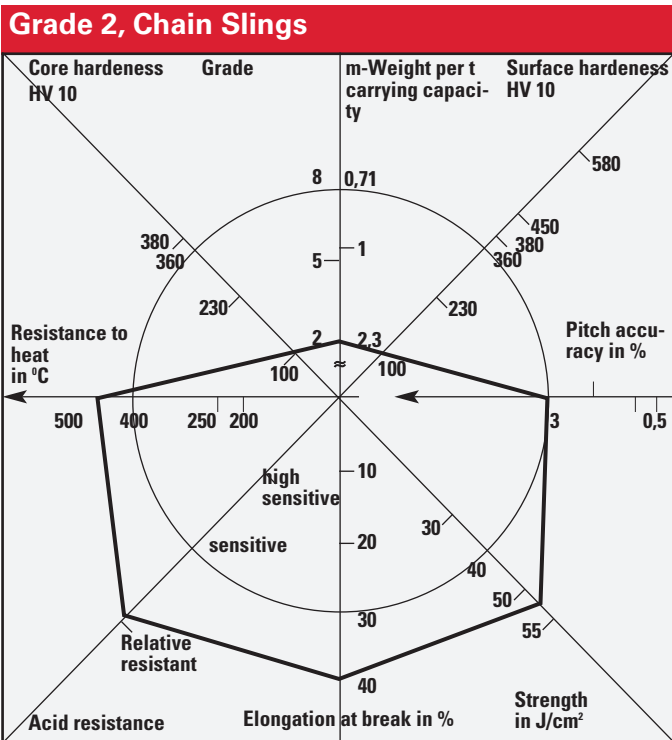
DoComfort Chain Slings



The higher the grade, is the lower is the fracture strain. Hereby, the weight per meter for each ton of lifting weight decreases. So for example, the weight per meter of the DoComfort high grade chain sling is almost 4-times less than those of grade 20, even though both have the same lifting capacity!
 The high degree of acid-resistance of grade 20 (made of RSt 35-2 material or pure iron) and grade 50 (of 1.4571 material), are the reason for their suitability for use in e.g etching baths.

Grade 4 chain slings are standardised according to DIN EN 818-5. grade 80 chains may not be used here due to the danger of hydrogen embrittlement!
 Completely different requirements must apply to lifting chains of grade 80: Here, high pitch accuracy and minimum strain guarantee a smooth run over the chain wheel. Because of a small fracture strain, lifting chains must never be used as chain slings.

New:
Welded chain slings for etching baths and hot-galvanizing plants, according to DIN EN 815-5 Grade 40, please inquire!



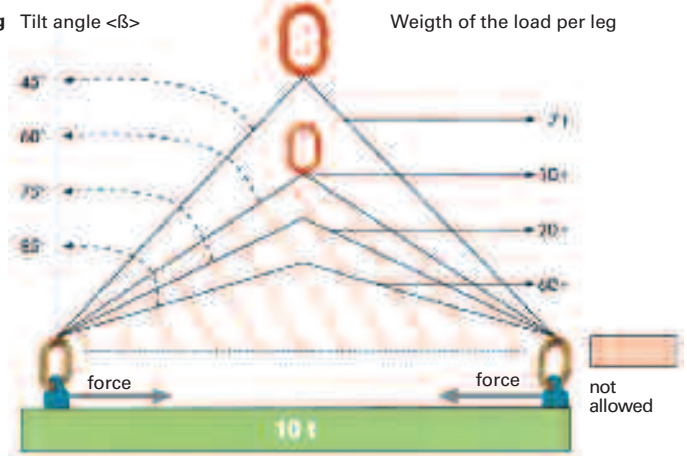
Operating instructions for chain slings

DoKett 1+2

DoComfort

Forces acting on a chain leg Tilt angle β

Weight of the load per leg



The WLL of a Chain sling depends on the tilt angle of the chain leg. See example for a 10t load.

DoKett chain slings are conform to the requirements of DIN EN 814-4.

DoKett chain slings may only be used for lifting and transporting of loads. According to BGR 500, they may only be used by persons authorised by the company and who are fully trained and qualified.

Before initial use, this manual must be read and be fully understood. Proper use of Dolezych products must be observed at all times.

The regulations apply to the following Dolezych products:

- DoKett 1 - Chain Slings
- DoKett 2 - Chain Slings
- DoComfort - Chain Slings

For chain slings of other grades or custom-made models please request our special user information.

Particular notice is drawn to the following instructions and technical regulations in effect:

- Chain slings grade 80 / DIN EN 818-4
- DIN 685 part 5 approved round steel chains; use of round steel slings
- DIN EN 818-6 chain slings; Use and maintenance instructions
- ZH 1/323 Safety rules for round steel chains used as lifting devices in hot-galvanizing plants
- BGR 500 Lifting devices for lifting appliances service
- ZH 1/103a Safety certificate for slingers

Where applicable, all valid special provisions must be observed, for example when transporting dangerous goods.

Chain Slings

- DoKett chain slings should be selected so that they are suitable for the upcoming transport with respect to their type, length and method of attachment to the load, safety and preventing unintentional movements.

By incorrectly selecting the carrying capacity and/or type of chain sling, there is a danger of the chain breaking!

- DoKett chain slings are not suitable for loads with smooth or slippery surfaces or for loads outside the temperature range from -40° to +400° C (above +200° with reduced carrying capacity)



DoKett chain slings must never be loaded exceeding their rated carrying capacity!

Operation of DoKett chain slings

Before using the selected DoKett chain sling, check that the identification and dimensions are correct. Never use a DoKett chain sling that shows signs of damage or when the identification is missing!

Identifying of DoKett Chain Slings

A red octagonal identification label is fixed to all DoKett chain slings. DoComfort chain slings are fitted with a special label.

The details on the label include:

- Carrying capacity for the type of chain sling. For multiple chain legs, also details on carrying capacity for a range of tilt angle β , from 0° to 45° and for 45° to 60°
- Load details in tons
- Number of chain legs
- Nominal size of chain in mm
- Date of manufacture
- Manufacturer's name - Dolezych
- CE symbol

Each chain sling is accompanied by a work certificate. The conformity of DoKett chain slings to the EC Machinery Directive is certified by Dolezych with a declaration of conformity.

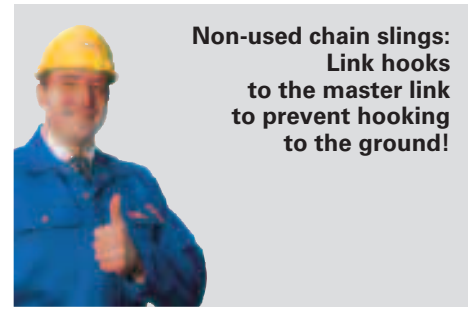
Carrying capacity of 1-leg DoKett Chain Slings:

Chain Nomin. size mm	Carrying capacity t			
	Sling type direkt DoKett 1+2	DoComfort	Sling type geschnürt DoKett 1+2	DoComfort
6	1,12	1,40	0,90	1,12
7	1,50	-	1,20	-
8	2,00	2,50	1,60	2,00
10	3,15	4,00	2,50	3,20
13	5,30	6,70	4,25	5,35
16	8,00	10,00	6,30	8,00
18	10,00	12,50	8,00	10,00
19	11,20	-	8,90	-
20	12,50	-	10,00	-
22	15,00	19,00	12,00	15,00

Load transport

Always apply good slinging practice Plan the sling, lifting and lowering processes before starting the lifting operation.

1. Complete the preparations: Determine weight and center of gravity of the load. Read the accompanying documents. Observe the marked lifting points and weight details on the load or weigh the load with crane scales (DoLast). Estimating the weight and center of gravity referring to weight tables is not a suitable solution. Only when the center of gravity has been established correctly can the crane hook be positioned at the correct location!
2. The crane operator must be informed of the weight.
3. The crane hook must be moved to a vertical position above the center of gravity of the load.



**Non-used chain slings:
Link hooks
to the master link
to prevent hooking
to the ground!**

4. Slinging the Load



Loads can slip or drop, if they are incorrectly slung. A dropped load can lead to serious injuries or even death.

The load must be slung so that damage to the load as well as to the DoKett chain slings is avoided. To lift the load without any tendency for the load to twist or turn over, the following conditions must be observed:

- For 1-leg DoKett slinging chains, the lifting point must be vertically above the center of gravity of the load.
- For 2-leg DoKett chain slings, the lifting points must be above the center of gravity of the load at both sides.
- For 3- and 4-leg DoKett chain slings, the lifting points must be evenly positioned in one plane, around the center of gravity of the load and should be vertically above the center of gravity.

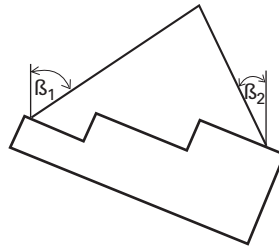
It is important to observe the tilt angle, β (angle between the perpendicular and the lifting devices).

The larger the tilt angle, the smaller is the load capacity. Tilt angles of more than 60° are not permissible!

For 3- and 4-leg DoKett chain slings with an unequal load distribution, the load capacity of a 2-leg DoKett chain sling must be applied in relation to the largest tilt angle.

If unequal tilt angles are present with 2-leg DoKett chain slings, (see diagram above), then the load capacity must be based on that of a 1-leg chain.

Example of unequal tilt angles, β :



To prevent an overload on the chain with the heaviest load, only one chain must be assumed as the load-bearing member!

With uneven load distribution, it must always be assumed that different tilt angles are produced, if:

- The load is rigid (e.g. concrete sections, casting sections, short beams, etc.).
- The position of the center of gravity is not known.
- The load has an uneven shape.

Use only suitable and correctly located load straining points.



Never reach under the lashings of the load! Slinging must not be done during a lifting operation!

Exceptions to this rule occur when slinging is done of:

- Large loads, provided that the sling devices cannot slip and a displacement of the load is not possible.
- Long, rod-shaped loads under beams, provided that the cross-beams are locked to prevent misalignment and the load is underpinned so that it cannot bend excessively.

A misalignment of the beam does not need to be blocked if the load is secure due to the composition and surface of the load or if the load is prevented from slipping by the chains or if the load is held fast by other parts of the load.

When using choker type lifting, the carrying capacity is limited to 80% of the nominal carrying capacity.

Here, it must be pointed out that a choker angle of 120° should be set. If several chain legs are used in a choker hitch, the load must not be twisted.

If DoKett multi-leg sling chains are used, and not all chains are load-bearing, then the chains that are not used must be hung up in the master link.

Correspondingly, the load capacity of the chains used is reduced.

- Move away from the danger area.
- Communicate with all persons engaged in the slinging operation: Warn all uninvolved persons in the transport area and in the unloading danger area.



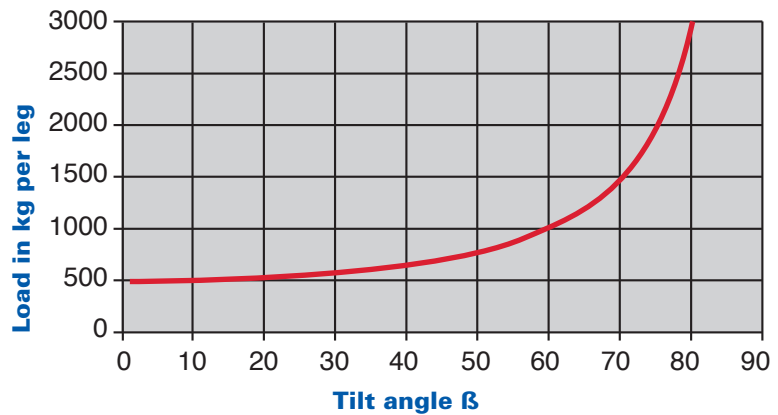
Warning: Endangered persons do include, for example, slingers and any other persons that are present in the transport area or in the path of movement!

- Only one person should give signals to the crane operator.
- By testing the lifting action, check whether:
 - the load snags or does not move
 - the load is horizontal and hangs correctly and
 - all chain legs are evenly loaded.
- Lower misaligned loads and adjust the slinging.
- Transporting the load with the crane.
- When transporting bulk parts and in windy conditions, the load should be steadied with a guide rope. The guiding person should be outside of the danger area, e.g. at the side instead of in front of the crane.
- Put the load down according to the instructions from slinger.
- Secure the load against toppling over and falling apart.
- Remove the slinging devices from the load.
- Hang the hook of the lifting device in the master link.
- When raising any unused lifting device, ensure that it does not get caught on the load.

Operating instructions for chain slings

DoKett 1+2
DoComfort

2 leg chain sling with 1000 kg load



Important notes on usage and Warning note:

- Always wear gloves when working with DoKett chain slings (danger of injury!)
- Avoid pulling and straining due to abrupt movements.
- DoKett chain slings must not be knotted or twisted when carrying a load.
- Special note for shortening hooks with eye: DoKett chain slings must be engaged in the shortening hook so that the loaded chain leg is in line with the master link eye and the reducer. Any incorrect use will damage the DoKett chain sling and may result in the load being dropped!
- Master links must be free to move.
- Never put load on a hook at its tip.
- With sharp-edged loads, the DoKett chain slings must be protected with cushioning products (Dolezych sharp edge protection, or temporarily, square timber pieces). Alternatively, a higher rated chain can be used to "armor" the chain. A sharp edge is present when the radius of the edge is less than the diameter of the chain link.

In particular, it is forbidden to:

- hold chain links together with wire or screws,
- join chain links together that have a different nominal size and use bolts, nails or similar at the joint for connecting them,
- join chain components of different grades together. DoKett 1 + 2 chain components may also not be combined with the new grade 100 (DoComfort),
- hang hooks with their pointed tip in a chain link,
- use open or riveted emergency links,
- use DoKett chain slings after a chain link has broken or is deformed ,
- use DoKett chain slings that have become stiff through strain due to overloading.
- wrap DoKett chain slings multiple times around lifting hooks.

Storage for DoKett chain slings:

It is best if DoKett chain slings are stored hanging on frames.

Use of DoKett chain slings in contact with chemicals:

DoKett chain slings must not be exposed to any chemical agents. Attention should be paid to the fact that any chemical vapors that might have been released can cause brittleness or breakage in DoKett chain slings. It is forbidden to subject DoKett chain slings to any form of galvanizing treatment.



Warning: The use of DoKett chain slings in galvanizing and pickling or mordant baths in hot-galvanizing plants, is strictly forbidden!

Use of DoKett chain slings in various temperature ranges:

DoKett chain slings are suitable for use in a temperature range of -40°C up to $+400^{\circ}\text{C}$. Above $+200^{\circ}\text{C}$, the carrying capacity must be reduced to 90 %, above $+300^{\circ}\text{C}$ to 75 % of the specific nominal carrying capacity.

Regular Inspections:

Dolezych chain slings are subject to Working Safety Regulations. (in Germany, BetrSichV).

According to 3.15.2.1 of BGR 500, art. 2.8 DoKett chain slings must be inspected and tested by a specialist at intervals of not longer than one year. At least every three years, a special test must be completed to ensure the absence of cracks. The results of tests and inspections must be recorded in the chain index or file cards.

Please use the mobile Dolezych test and inspection service!

We test your lifting devices either in the Dolezych test center, at your production site, or directly at the work site.

Depending on the conditions of use, the DoKett chain slings may require inspections at shorter intervals than one year. This applies for example, with particularly heavy usage, increased wear, any corrosion or influences from heat, or if, from operational experience, there is an increased danger of damage.

During the period of use, regular visual inspections should be conducted by the User to detect any damage, including any that might be covered by dirt, that could endanger a continuous and safe use of the DoKett chain slings. As soon as there is any doubt regarding the safe operating conditions of a DoKett chain sling, it must be taken out of operation and checked by a technical expert.

The testing of chain slings requires particular care and is only to be conducted by experienced and trained personnel according to the inspection regulations.

Please inquire for further details!

For details on our testing service for chains, please refer to page 8.

Dolezych Repair Service

If your DoKett chain slings show any signs of damage, they can be repaired by experienced Dolezych specialists. This can help save expenses.

Never attempt to repair component parts of DoKett chain slings yourself!

Indication for disposal of DoKett chain slings:

DoKett chain slings must not be used any longer in case of (indications for disposal):

- breakage of chain link,
- fractures, cuts, notches, excessive corrosion,
- color change due to effects of heat,
- deformation of chain links, master links, transition or connector links
- Reduction of measured thickness by more than 10 % of the nominal size. The measured thickness of a link is given by the average value of diameter measure same link, offset by 90 %,
- missing or illegible identification label (reduce the load capacity to correspond to grade 2,
- unauthorized manipulation of the DoKett chain links (refer also to examples above),
- any elongation at any point in the chain by more than 3 % (measured on the side of a chain link),
- Widening of hooks by more than 10% (hook opening width).



General Notice of Danger:

When raising loads with lifting devices, any person underneath or at the side of the load is in danger. As the manufacturer, we are obliged to notify you as the user that there are other dangers when working with lifting devices, in particular when the connection between the lifting device and the load is not adequately safe or when, after raising, the load swings and endangers the slinger. Dropped loads may endanger persons and damage the goods being lifted.

As a user, please utilize suitable training facilities for training your slingers and crane operators.

Several times each year, Dolezych holds the well-known "Dortmund Seminars" for all personnel responsible for lifting devices. Dolezych can also hold a seminar at your plant.

Feel free to contact us for further details on BQH Safety Training:
Tel.: +49-231/ 82 75 98



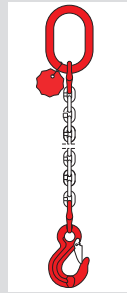
Chain Slings, 1-leg grade 80

DIN EN 818-4

DoKett 1+2



1-Leg Chain Slings



Eye-hook
OHS

Eye-hook with
Safety latch YOS

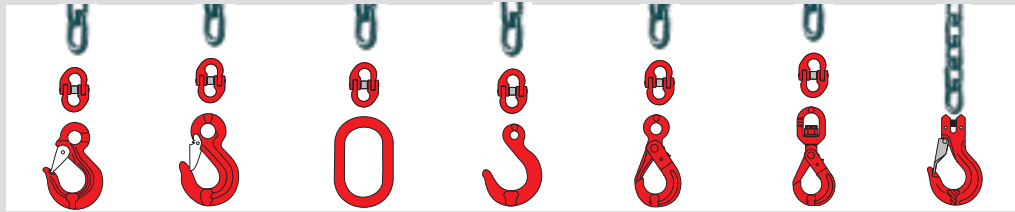
End link
AG

Container
hooks YOW

Safety Hooks
self-locking
YOZ

Swivel hooks
self-locking
YOZW

Clevis
hooks YGS*

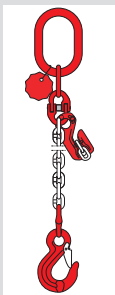


Complete the Item no. with the chain nominal size „ . . . ”

Price per meter effective length

Load capacity in t at 0°	Chain nom. size in mm	1917..01	1918 . . 01	1923..01	1904 . . 01	1921 . . 01	1922 . . 01	1944 . . 01	each extra m.
1,12	06								
1,50	07								
2,00	08	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
3,15	10								
5,30	13								
8,00	16								
10,00	18	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
12,50	20								
15,00	22								

1-Leg Chain Slings with Shortening Hooks



Eye-hook
OHS

Eye-hook with
Safety latch YOS

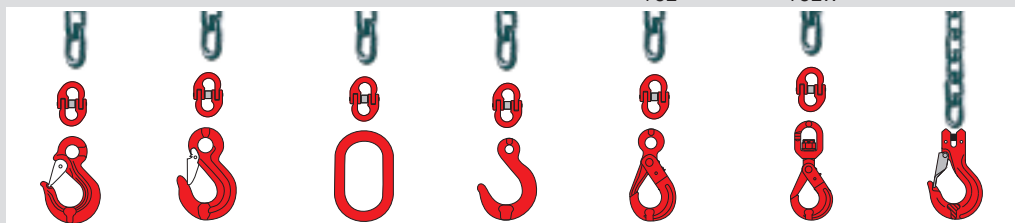
End link
AG

Container
hooks YOW

Safety hooks
self-locking
YOZ

Swivel hooks
self-locking
YOZW

Clevis
hooks YGS*



Complete the Item no. with the chain nominal size „ . . . ”

Price per meter effective length

Load capacity in t at Tilt angle 0°	Chain nom. size in mm	1927 . . 01	1928 . . 01	1933 . . 01	1935 . . 01	1931 . . 01	1932 . . 01	1945 . . 01	Price per each extra m.
1,12	06								
1,50	07								
2,00	08	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
3,15	10								
5,30	13								
8,00	16								
10,00	18	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
12,50	20								
15,00	22								

* DoKett 2 – Non-confusing system

Ordering Example:

Art. required:

1 piece 1-leg chain with eye-hook YOS,
nominal size 6 mm, 1 m long.

Your order would then appears as:

1 piece Art.-Nr. 1918 0601, 1 m effective
length.



For the correct use of shortening hooks please see p. 388 f.



Chain Slings, 2-leg grade 80

DIN EN 818-4

DoKett 1+2

2-Leg Chain Slings

Load capacity in t at Tilt angle		Chain nom. size in mm	Eye-hook OHS	Eye-hooks with Safety latch YOS	End link AG	Container hooks YOW	Safety hooks self-locking YOZ	Swivel hooks self-locking YOZW	Clevis hooks YGS*	Price per each extra m.
β0-45°	β45-60°		1917 .. 02	1918 .. 02	1923 .. 02	1904 .. 02	1921 .. 02	1922 .. 02	1944 .. 02	
1,60	1,12	06								
2,12	1,50	07								
2,80	2,00	08	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
4,25	3,15	10	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
7,50	5,30	13	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
11,20	8,00	16	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
14,00	10,00	18	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
17,00	12,50	20	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
21,20	15,00	22	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry

2-Leg Chain Slings with Shortening Hooks

Load capacity in t at Tilt angle		Chain nom. size in mm	Eye-hook OHS	Eye-hooks with Safety latch YOS	End link AG	Container hooks YOW	Safety hooks self-locking YOZ	Swivel hooks self-locking YOZW	Clevis hooks YGS*	Price per each extra m.
β0-45°	β45-60°		1927 .. 02	1928 .. 02	1933 .. 02	1935 .. 02	1931 .. 02	1932 .. 02	1945 .. 02	
1,60	1,12	06								
2,12	1,50	07								
2,80	2,00	08	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
4,25	3,15	10	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
7,50	5,30	13	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
11,20	8,00	16	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
14,00	10,00	18	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
17,00	12,50	20	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
21,20	15,00	22	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry

* DoKett 2 – Non-confusing system

According to the recommendations of the BG, chain shorteners – due to the occurrence of incorrect use and the possibility of unintentional release of the chain – must be fitted with an addi-

onal locking mechanism or the construction must be modified. Over the course of this year, we will be producing our shortening (reducing) elements to conform to the new requi-

rements and regulations.

An alternative is our new DoClick-hook with BG-approval, please refer to pages 374-375.

Chain Slings, 3-leg, grade 80 DIN EN 818-4

DoKett 1+2



3-Leg Chain Slings

Load capacity in t at Tilt angle		Chain nom. size in mm	Eye-hook OHS	Eye-hooks with Safety latch YOS	End link AG	Container hooks YOW	Safety hooks self-locking YOZ	Swivel hooks self-locking YOZW	Clevis hooks YGS*
β0-45°	β45-60°		Complete the Item no. with the chain nominal size „ . . . ” Price per meter effective length						
2,36	1,70	06	1917 . . 03	1918 . . 03	1923 . . 03	1904 . . 03	1921 . . 03	1922 . . 03	1944 . . 03
3,15	2,24	07	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
4,25	3,00	08	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
6,70	4,75	10	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
11,20	8,00	13	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
17,00	11,80	16	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
21,20	15,00	18	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
26,50	19,00	20	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
31,50	22,40	22	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry

3-Leg Chain Slings with Shortening Hooks

Load capacity in t, at Tilt angle		Chain nom. size in mm	Eye-hook OHS	Eye-hooks with Safety latch YOS	End link AG	Container hooks YOW	Safety hooks self-locking YOZ	Swivel hooks self-locking YOZW	Clevis hooks YGS*
β0-45°	β45-60°		Complete the Item no. with the chain nominal size „ . . . ” Price per meter effective length						
2,36	1,70	06	1927 . . 03	1928 . . 03	1933 . . 03	1935 . . 03	1931 . . 03	1932 . . 03	1945 . . 03
3,15	2,24	07	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
4,25	3,00	08	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
6,70	4,75	10	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
11,20	8,00	13	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
17,00	11,80	16	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
21,20	15,00	18	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
26,50	19,00	20	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
31,50	22,40	22	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry

* DoKett 2 – Non-confusing system

! For the correct use of shortening hooks please see p. 388 f.

Dim. L = effective length always quote when ordering



The suspension link must be free to move on the crane hook, otherwise, a reduction assembly is required (refer to page 377).

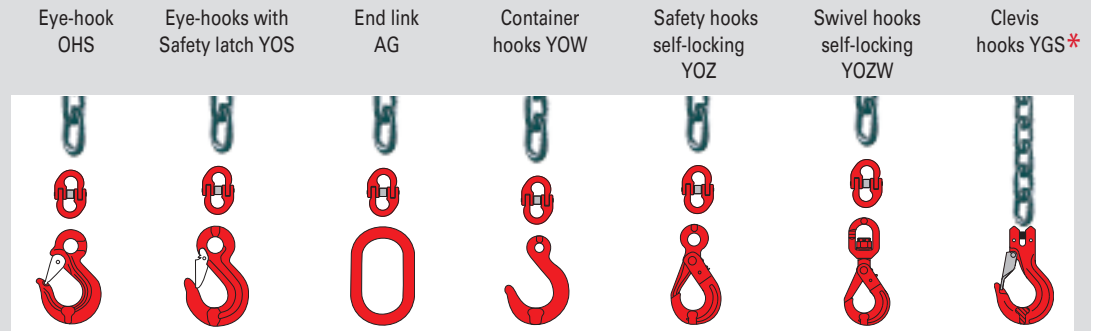
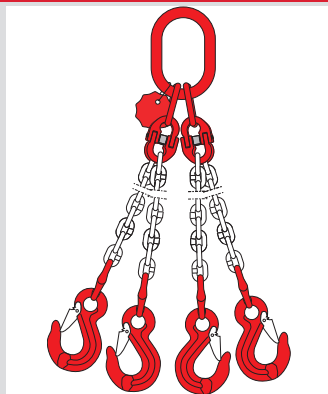


Chain Slings, 4-leg grade 80

DIN EN 818-4

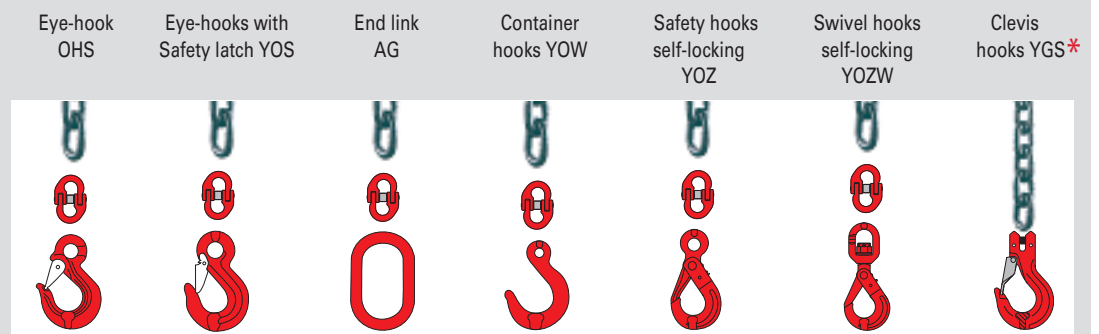
DoKett 1+2

4-Leg Chain Slings



Load capacity in t at Tilt angle		Chain nom. size in mm	Complete the Item no. with the chain nominal size „ . . . ” Price per meter effective length							
β0-45°	β45-60°		1917 . . 04	1918 . . 04	1923 . . 04	1904 . . 04	1921 . . 04	1922 . . 04	1944 . . 04	Price per each extra m.
2,36	1,70	06								
3,15	2,24	07								
4,25	3,00	08	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
6,70	4,75	10								
11,20	8,00	13								
17,00	11,80	16								
21,20	15,00	18								
26,50	19,00	20								
31,50	22,40	22								

4-Leg Chain Sling with Shortening Hooks



Load capacity in t at Tilt angle		Chain nom. size in mm	Complete the Item no. with the chain nominal size „ . . . ” Price per meter effective length							
β0-45°	β45-60°		1927 . . 04	1928 . . 04	1933 . . 04	1935 . . 04	1931 . . 04	1932 . . 04	1945 . . 04	Price per each extra m.
2,36	1,70	06								
3,15	2,24	07								
4,25	3,00	08	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry	Price on enquiry
6,70	4,75	10								
11,20	8,00	13								
17,00	11,80	16								
21,20	15,00	18								
26,50	19,00	20								
31,50	22,40	22								

* DoKett 2 – Non-confusing system



For the correct use of shortening hooks please see p. 388 f.

DoClick Chain Slings

DIN EN 818-4
grade 80

DoClick

New sling hooks with integrated shortening devices and safety.

- **Use as hooks in chain suspension**

The sling shortening hooks are each hooked in the end of the respective chain leg.

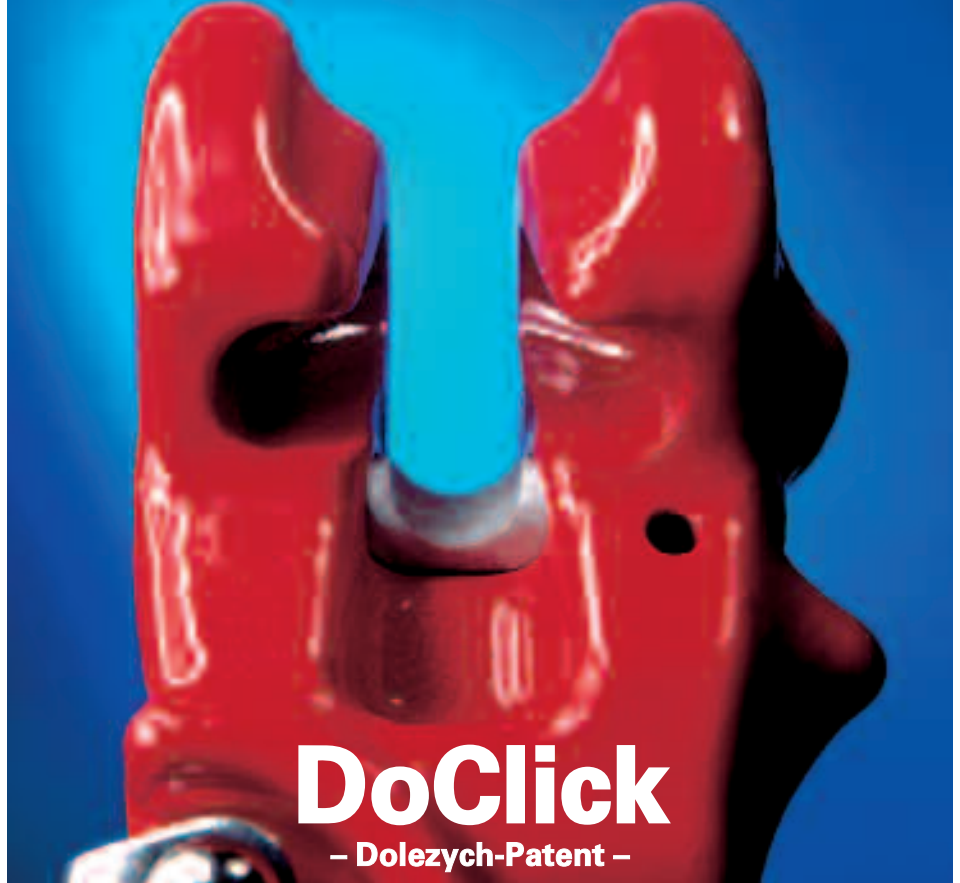
- **Use as hooks in symmetrically shortened chain suspensions**

The sling shortening hooks are each hooked in at the same height on the respective chain leg. This results in a chain suspension of variable length. The now excessive length of non-load bearing chain, is hung up with the appropriate spring clip or carabine hook.

- **Use as shortening hooks in a chain suspension**

The sling shortening hook is asymmetrically hooked in the chains with the height needed. The now excessive length of non-load bearing chain, is hung up with the appropriate carabine hook.

Your advantage: Shortening directly at the work site; a complete lowering of the crane hook is not necessary.



1-Leg Chain Sling with DoClick-Hooks



Item no.	Nominal size	Carrying capacity in t at tilt angle 0°	Price / 1 m effective length	Price per each extra m.
1960 0601	6-8	1,12	Price on enquiry	Price on enquiry
1960 0801	8-8	2,00		
1960 1001	10-8	3,15	Price on enquiry	Price on enquiry
1960 1301	13-8	5,30		
1960 1601	16-8	8,00		

On the recommendation of BG, hooks used in the future in sling chains with shortening hooks must be of a type that incorporate a safety lock.

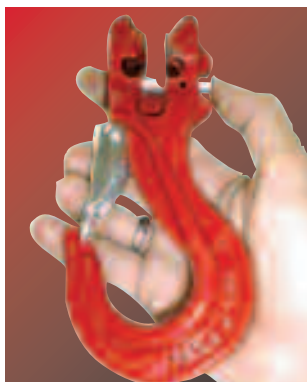
DoClick-Hooks conform to these requirements: Shortening with interlocking and hook opening safety device.

2-Leg Chain Slings with DoClick-Hooks



Item no.	Nominal size	Carrying capacity in t at tilt angle		Price / 1 m effective length	Price per each extra
		β0-45°	β45-60°		
1960 0602	6-8	1,60	1,12	Price on enquiry	Price on enquiry
1960 0802	8-8	2,80	2,00		
1960 1002	10-8	4,25	3,15	Price on enquiry	Price on enquiry
1960 1302	13-8	7,50	5,30		
1960 1602	16-8	11,20	8,00		

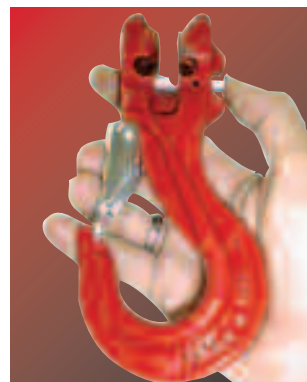
Function of DoClick as Sling Hook



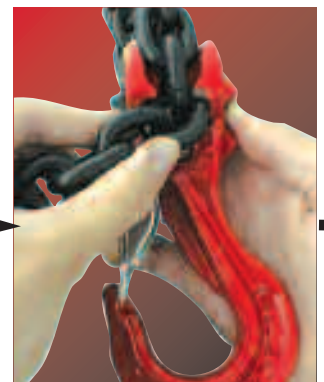
Press the safety bolt



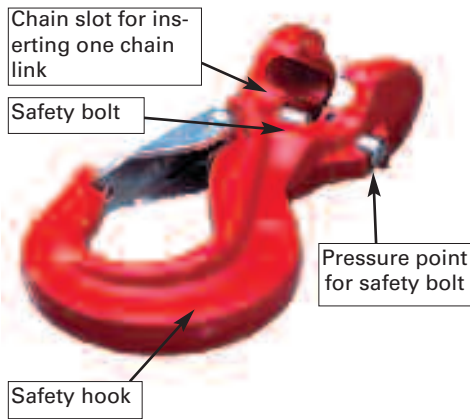
DoClick as Safety hook



Press the safety bolt



Insert the chain in the chain slot



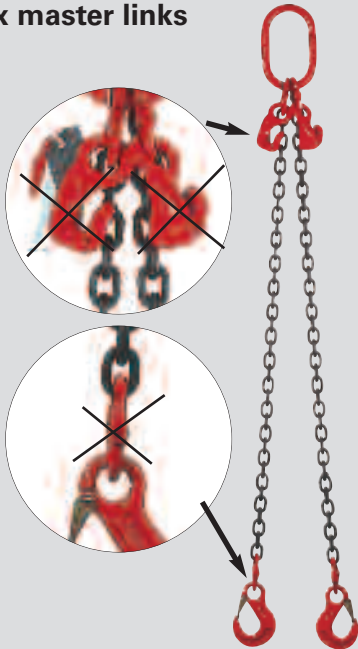
DoClick helps to save components, time and money. Separate shortening hooks, master and coupling links are no longer necessary, since the DoClick system combines sling hook and shortening element.

DoClick Chain Slings DIN EN 818-4 grade 80

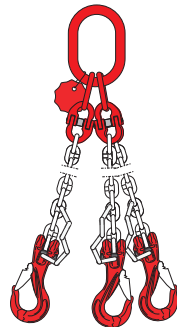
Dokett

Here is where you save components!

Compared to a 2-leg chain suspension with separate shortening links, DoClick uses 4 components less:
2 x shortening hooks and
2 x master links

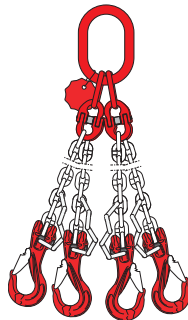


3-Leg Chain Slings with DoClick-Hooks



Item no.	Nominal size	Carrying-load in t at tilt angle		Price per m effective length	Price per each extra m.
		β0-45°	β45-60°		
1960 0603	6-8	2,36	1,70	Price on enquiry	Price on enquiry
1960 0803	8-8	4,25	3,00		
1960 1003	10-8	6,70	4,75		
1960 1303	13-8	11,20	8,00		
1960 1603	16-8	17,00	11,80		

4-Leg Chain Slings with DoClick



Item no.	Nominal size	Carrying-load in t at tilt angle		Price per m effective length	Price per each extra m.
		β0-45°	β45-60°		
1960 0604	6-8	2,36	1,70	Price on enquiry	Price on enquiry
1960 0804	8-8	4,25	3,00		
1960 1004	10-8	6,70	4,75		
1960 1304	13-8	11,20	8,00		
1960 1604	16-8	17,00	11,80		

DoClick Shortening Hooks, single

Item no.	Nominal size	Carrying capacity	L	B	G	H	K	A	approx. kg	Price
0982 1306	6-8	1,12	135	22	16	18	102	7	0,5	Price on enquiry
0982 1307	7/8-8	2,00	171	26	18	24	132	10	0,9	
0982 1310	10-8	3,15	213	34	24	34	149	12	1,7	
0982 1313	13-8	5,30	256	43	30	37	179	15	3,4	
0982 1316	16-8	8,00	305	46	39	42	212	20	5,6	

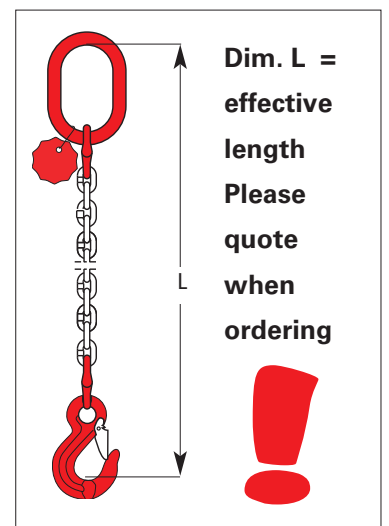
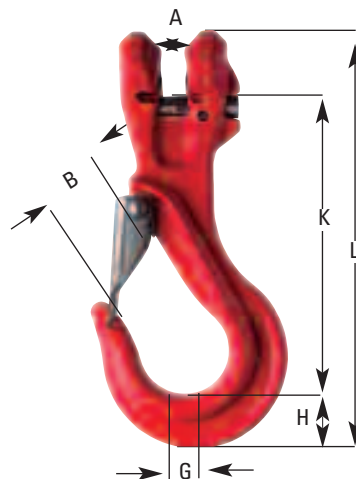
! For the correct use of shortening hooks please see p. 388 f.



Release safety bolt



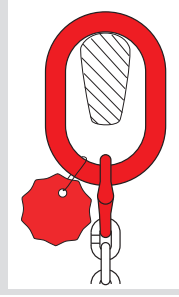
Hang up the excess chain with carabine hook - Ready!



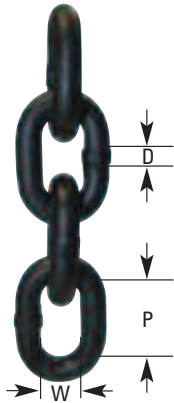
Chains Coupling links Master links grade 80 DIN EN 1677

Dokkett

The width of the master link should be at least 20% above the width of the crane hook.

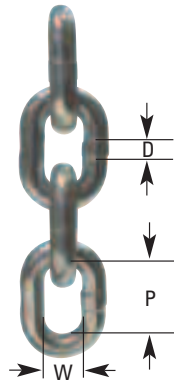


Chain DIN EN 818-2, grade 80



Item no.	Nominal size	Carrying capacity t	D	Size in mm W	P	Weight approx. kg/m	Price per 100 m
3970 0006	6-8	1,12	6	7,8	18	0,80	Price on enquiry
3970 0007	7-8	1,50	7	9,1	21	1,10	
3970 0008	8-8	2,00	8	10,4	24	1,40	
3970 0010	10-8	3,15	10	13,0	30	2,20	
3970 0013	13-8	5,30	13	16,9	39	3,80	
3970 0016	16-8	8,00	16	20,8	48	5,70	
3970 0018	18-8	10,00	18	23,4	54	7,30	
3970 0019	19-8	11,20	19	24,7	57	7,80	
3970 0020	20-8	12,50	20	26,0	60	9,00	
3970 0022	22-8	15,00	22	28,6	66	10,90	
3970 0026	26-8	21,20	26	33,8	78	15,20	
3970 0032	32-8	31,50	32	41,6	96	23,00	

Chain DIN EN 818-2, Corrosion-resistant, galvanized, grade 80

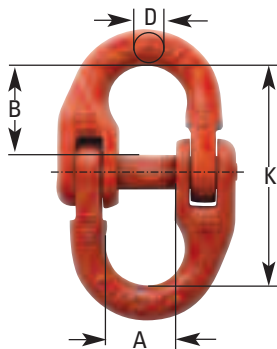


Item no.	Nominal size	Carrying capacity t	D	Size in mm W	P	Weight approx. kg/m	Price per 100 m
3975 0006	6-8	1,12	6	7,8	18	0,80	Price on enquiry
3975 0007	7-8	1,50	7	9,1	21	1,10	
3975 0008	8-8	2,00	8	10,4	24	1,40	
3975 0010	10-8	3,15	10	13,0	30	2,20	
3975 0013	13-8	5,30	13	16,9	39	3,80	
3975 0016	16-8	8,00	16	20,8	48	5,70	

Corrosion resistance applied by special processing surpasses any galvanizing qualities. Even these chains are harder in their joining links than it is required for chain slings.

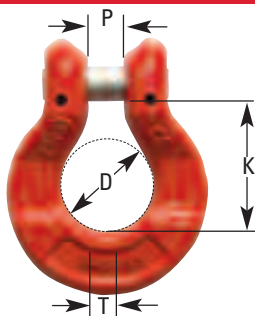
Further nominal sizes on request.

Coupling Links

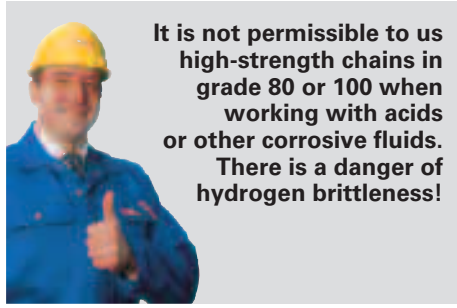


Item no.	Nominal size	Carrying capacity t	Size in mm				Weight kg approx.	Price each
			K	A	D	B		
0905 1006	6-8	1,12	44	15	7	17	0,1	Price on enquiry
0905 1007	7/8-8	2,00	57	18	9	22	0,2	
0905 1010	10-8	3,15	68	25	11	26	0,3	
0905 1013	13-8	5,30	91	30	16	35	0,7	
0905 1016	16-8	8,00	100	36	19	38	1,1	
0905 1019	18/20-8	12,50	122	42	22	46	1,7	
0905 1022	22-8	15,00	152	49	24	59	3,0	
0905 1026	26-8	21,20	162	55	30	62	4,6	
0905 1032	32-8	31,50	202	69	36	79	8,6	

Chain Connector/Omega Shackles



Item no.	Nominal size	Carrying capacity	Size in mm				Weight kg approx.	Price each
			K	D	T	P		
0905 3406	6-8	1,12	30	21	9	8	0,1	Price on enquiry
0905 3408	7/8-8	2,00	36	27	11	9	0,2	
0905 3410	10-8	3,15	44	32	15	12	0,4	
0905 3413	13-8	5,30	55	42	17	16	0,9	
0905 3416	16-8	8,00	69	50	22	18	1,5	
0905 3419	18/20-8	12,50	71	58	28	21	2,1	

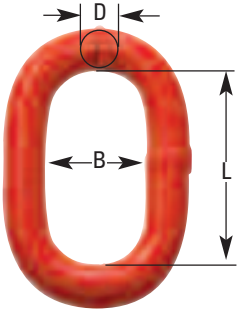


It is not permissible to use high-strength chains in grade 80 or 100 when working with acids or other corrosive fluids. There is a danger of hydrogen brittleness!

**Master link
End link
Reduction assembly
grade 80
DIN EN 1677**

Dokkett

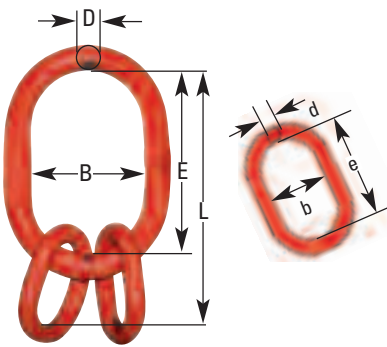
Master Links for 1-/2-leg Chain Slings / End link AG with large dimensions



Item no.	Nom. size of 1-leg chain master links	Nom. size of 2-leg master links	Size in mm			Suitable for Single hooks DIN 15 401 Nr.	Weight kg approx.	Price each
			D	L	B			
0905 3607	6/7-8	6-8	13	110	60	2,5	0,3	Price on enquiry
0905 3677	8-8	7-8	16	110	60	2,5	0,5	
0905 3610	10-8	8-8	18	135	75	5,0	0,8	
0905 3613	13-8	10-8	22	160	90	6,0	1,5	
0905 3616	16-8	13-8	26	180	100	8,0	2,3	
0905 3618	18-8	16-8	32	200	110	10,0	3,9	
0905 3619	20/22-8	18-8	36	260	140	16,0	6,3	
0905 3620		20-8	40	300	160	20,0	9,0	
0905 3622	26-8	22-8	45	340	180	25,0	13,0	

Further sizes and dimensions on request

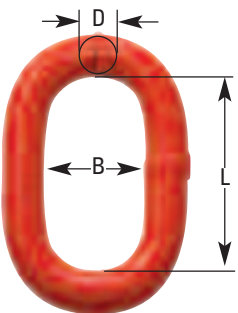
Master Links for 3-/4-Leg Chain Slings



Item no.	Nominal size	D	L	B	Size in mm				Suitable for Single hooks DIN 15 401 Nr.	Weight approx. kg	Price each
					E	d	e	b			
0905 3707	6/7-8	18	189	75	135	13	54	25	5	1,2	Price on enquiry
0905 3708	8-8	22	230	90	160	16	70	34	6	2,2	
0905 3710	10-8	26	265	100	180	18	85	40	8	3,4	
0905 3713	13-8	32	315	110	200	22	115	50	10	6,0	
0905 3716	16-8	36	400	140	260	26	140	65	16	10,0	
0905 3718	18-8	45	490	180	340	32	150	70	25	18,9	
0905 3719	19/20-8	51	500	190	350	32	150	70	32	23,3	
0905 3722	22-8	51	520	190	350	36	170	75	32	25,8	

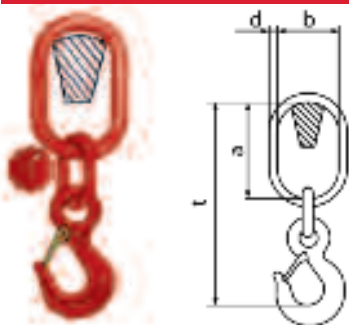
Further sizes and dimensions on request

End link EG with small dimensions



Item no.	Nominal size	D	Size in mm		Weight approx. kg	Price each
			L	B		
0908 0006	6-8	13	54	25	0,18	Price on enquiry
0908 0008	7/8-8	16	70	34	0,36	
0908 0010	10-8	18	85	40	0,53	
0908 0013	13-8	22	115	50	1,06	
0908 0016	16-8	26	140	65	1,82	
0908 0019	18/20-8	32	150	70	3,05	
0908 0022	22-8	36	170	75	4,32	
0908 0026	26-8	40	170	80	5,50	
0908 0028	28-8	45	180	90	7,50	
0908 0032	32-8	50	200	100	10,80	

Reduction Assembly for Single hooks 25 t (a x b: 340 x 180) and 50 t (430 x 220) DIN 15401

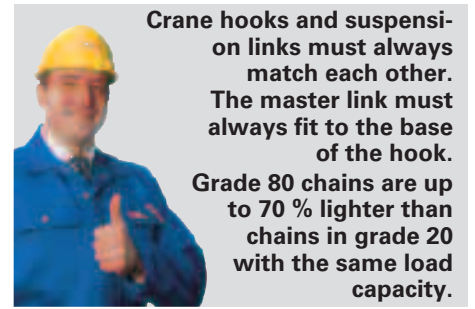
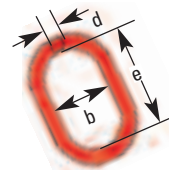
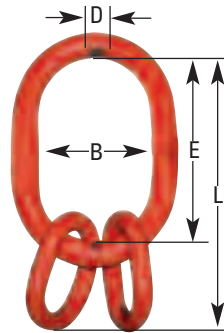


Item no.	Carrying capacity t	Single hook no.	Size in mm				Eye-hook with safety device	Weight approx. kg	Price each
			d	a	b	t			
0981 0053	5,3	25	28	340	180	595	13-8	8,4	Price on enquiry
0981 0080	8,0	25	31	340	180	645	16-8	11,4	
0981 0100	10,0	25	38	340	180	695	18-8	17,9	
0981 0125	12,5	40	42	430	220	789	20-8	22,3	
0981 0150	15,0	40	45	430	220	806	22-8	26,5	
0981 0212	21,2	40	48	430	220	850	26-8	33,4	
0981 0250	25,0	40	48	430	220	870	28-8	34,2	
0981 0315	31,5	40	54	430	220	913	32-8	45,5	

Special master links grade 80

DIN EN 1677

Dokett



Crane hooks and suspensi-
on links must always
match each other.
The master link must
always fit to the base
of the hook.
Grade 80 chains are up
to 70 % lighter than
chains in grade 20
with the same load
capacity.

Special Master Links for 1-Leg Chain Suspensions

For single crane hooks up to No. 8

Item no.	Nominal size	D	L	Size in mm				Weight approx. kg	Price each
				B	E	d	e	b	
0908 0806	6-8	13	-	100	180	-	-	-	0,68
0908 0808	7/8-8	18	-	100	180	-	-	-	1,17
0908 0810	10-8	20	-	100	180	-	-	-	1,50
0908 0813	13-8	22	-	100	180	-	-	-	1,84

Price on enquiry

For single crane hooks up to No. 16

Item no.	Nominal size	D	L	Size in mm				Weight approx. kg	Price each
				B	E	d	e	b	
0908 1606	6-8	18	314	140	260	13	54	25	1,76
0908 1608	7/8-8	20	330	140	260	16	70	34	2,40
0908 1610	10-8	22	-	140	260	-	-	-	2,50
0908 1613	13-8	26	-	140	260	-	-	-	3,30
0908 1616	16-8	30	-	140	260	-	-	-	4,50
0908 1618	18-8	34	-	140	260	-	-	-	5,80

Price on enquiry

For single crane hooks up to No. 25

Item no.	Nominal size	D	L	Size in mm				Weight approx. kg	Price each
				B	E	d	e	b	
0908 2506	6-8	20	394	180	340	13	54	25	2,52
0908 2508	7/8-8	22	410	180	340	16	70	34	3,50
0908 2510	10-8	24	425	180	340	18	85	40	4,20
0908 2513	13-8	28	425	180	340	20	85	40	5,38
0908 2516	16-8	31	455	180	340	22	115	50	7,30
0908 2518	18-8	38	480	180	340	26	140	65	10,90
0908 2520	20-8	40	-	180	340	-	-	-	9,80

Price on enquiry

For single crane hooks up to No. 40

Item no.	Nominal size	D	L	Size in mm				Weight approx. kg	Price each
				B	E	d	e	b	
0908 5006	6-8	20	500	220	430	13	54	25	3,07
0908 5008	7/8-8	24	500	220	430	16	70	34	4,70
0908 5010	10-8	26	515	220	430	18	85	40	5,70
0908 5013	13-8	30	515	220	430	20	85	40	7,80
0908 5016	16-8	34	545	220	430	22	115	50	9,90
0908 5018	18-8	40	570	220	430	26	140	65	13,90
0908 5020	20-8	42	570	220	430	26	140	65	15,30

Price on enquiry

Special Master Links for 2-Leg Chain Suspensions

For single crane hooks up to No. 8

Item no.	Nominal size	D	L	Size in mm				Weight approx. kg	Price per
				B	E	d	e	b	
0908 0906	6-8	18	234	100	180	13	54	25	1,68
0908 0908	7/8-8	20	250	100	180	16	70	34	2,04
0908 0910	10-8	22	-	100	180	-	-	-	1,62

Price on enquiry

For single crane hooks up to No. 16

Item no.	Nominal size	D	L	Size in mm				Weight approx. kg	Price each
				B	E	d	e	b	
0908 1006	6-8	20	314	140	260	13	54	25	2,40
0908 1008	7/8-8	22	330	140	260	16	70	34	3,12
0908 1010	10-8	26	345	140	260	18	85	40	4,49
0908 1013	13-8	30	345	140	260	20	85	40	5,65
0908 1016	16-8	34	375	140	260	22	115	50	7,72

Price on enquiry

For single crane hooks up to No. 25

Item no.	Nominal size	D	L	Size in mm				Weight approx. kg	Price each
				B	E	d	e	b	
0908 1106	6-8	22	394	180	340	13	54	25	3,40
0908 1108	7/8-8	24	410	180	340	16	70	34	4,40
0908 1110	10-8	28	425	180	340	18	85	40	6,20
0908 1113	13-8	32	425	180	340	20	85	40	7,60
0908 1116	16-8	38	455	180	340	22	115	50	11,30
0908 1118	18-8	40	480	180	340	26	140	65	13,40
0908 1120	20-8	42	480	180	340	26	140	65	15,00

Price on enquiry

For single crane hooks up to No. 40

Item no.	Nominal size	D	L	Size in mm				Weight approx. kg	Price each
				B	E	d	e	b	
0908 1206	6-8	24	484	220	430	13	54	25	4,66
0908 1208	7/8-8	26	515	220	430	18	85	40	6,30
0908 1210	10-8	30	515	220	430	18	85	40	8,00
0908 1213	13-8	34	515	220	430	20	85	40	10,20
0908 1216	16-8	40	570	220	430	26	140	65	15,60
0908 1218	18-8	42	570	220	430	26	140	65	17,24
0908 1220	20-8	45	570	220	430	26	140	65	19,90

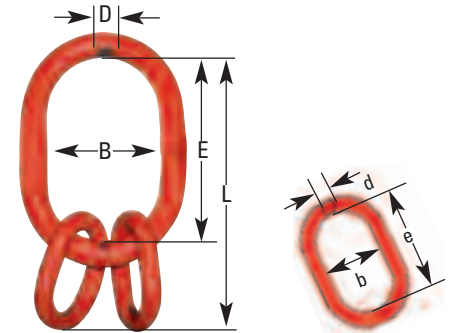
Price on enquiry



**Special master links
grade 80**

DIN EN 1677

Dokkett



Special Master Links for 3-/4-Leg Chain Suspensions

For single crane hooks up to No. 8

Item no.	Nominal size	Size in mm							Weigth approx. kg	Price each
		D	L	B	E	d	e	b		
0908 1306	6-8	20	234	100	180	13	54	25	1,87	o.e.
0908 1308	7/8-8	22	250	100	180	16	70	34	2,52	o.e.

For single crane hooks up to No. 16

Item no.	Nominal size	Size in mm							Weigth approx. kg	Price each
		D	L	B	E	d	e	b		
0908 1406	6-8	22	330	140	260	13	54	25	2,80	Price on enquiry
0908 1408	7/8-8	26	345	140	260	18	85	40	4,50	
0908 1410	10-8	30	345	140	260	18	85	40	5,60	
0908 1413	13-8	34	375	140	260	22	115	40	8,00	

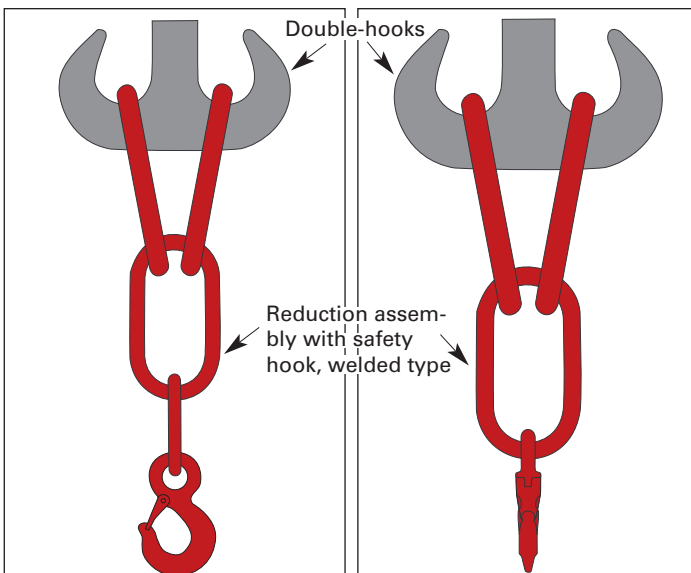
For single crane hooks up to No. 25

Item no.	Nominal size	Size in mm							Weigth approx. kg	Price each
		D	L	B	E	d	e	b		
0908 1506	6-8	24	394	180	340	13	54	25	3,40	Price on enquiry
0908 1508	7/8-8	28	425	180	340	18	85	40	6,20	
0908 1510	10-8	31	425	180	340	18	85	40	7,40	
0908 1513	13-8	38	455	180	340	22	115	50	11,30	
0908 1516	16-8	40	480	180	340	26	140	65	13,60	

For single crane hooks up to No. 40

Item no.	Nominal size	Size in mm							Weigth approx. kg	Price each
		D	L	B	E	d	e	b		
0908 1706	6-8	26	484	220	430	13	54	25	5,42	Price on enquiry
0908 1708	8-8	30	515	220	430	18	85	40	7,75	
0908 1710	10-8	34	545	220	430	22	115	50	9,74	
0908 1713	13-8	40	570	220	430	26	140	65	15,80	
0908 1716	16-8	42	570	220	430	26	140	65	17,10	
0908 1718	18-8	48	580	220	430	32	150	70	24,00	
0908 1720	20/22-8	54	600	220	430	36	170	75	31,70	

Reduction assemblies for double-hooks



Load capacities and prices available on request!



Hooks grade 80

DIN EN 1677

Dokkett

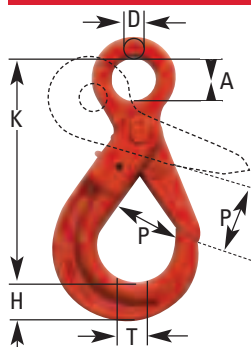


Advice on use of lifting slings:
Never make sudden, jerky crane movements. When lowering a load, use a suitable base-pad (e.g. square timber), so that the lifting device can be removed easily from under the load. Chains must not be knotted or passed over sharp edges. If sharp edges are unavoidable, use a chain at least one nominal size larger than necessary for the load bearing capacity. This prevents the chain links from bending, the chain quasi-armored.



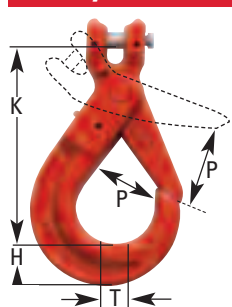
Safety hooks YOZ and YOZG have proven to be reliable for heavy and robust work. These hooks close automatically when loaded, unhooking is not possible – a plus for safety. Particular suitable for construction and concrete industries, highrise building construction and structural steel construction, shipyards, etc

Safety Eye Hooks YOZ, self-locking

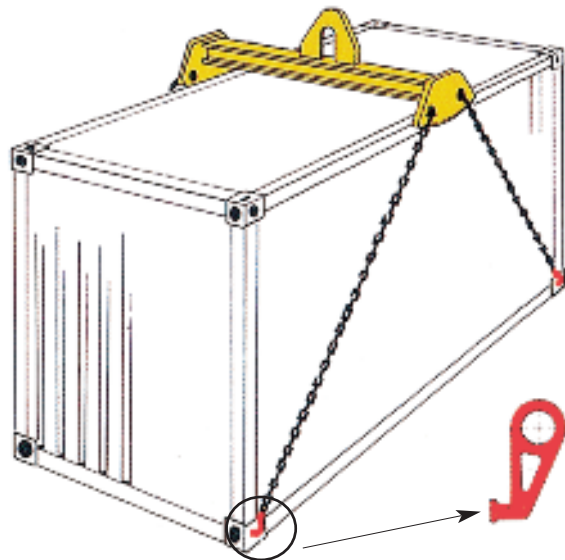


Item no.	Nominal size	Carrying capacity t	K		Size in mm				Weigth approx. kg	Price each
			P	A	D	T	H			
0908 0206	6-8	1,12	110	29	21	10	15	19	0,5	Price on enquiry
0908 0208	7/8-8	2,00	136	34	25	11	20	24	0,8	
0908 0210	10-8	3,15	167	44	32	13	26	30	1,4	
0908 0213	13-8	5,30	207	52	40	16	30	39	3,0	
0908 0216	16-8	8,00	252	60	52	21	36	49	5,7	
0908 0219	18/20-8	12,50	282	90	64	23	48	62	8,5	
0908 0222	22-8	15,00	319	80	70	24	49	63	11,2	
0908 0226	26-8	21,20	343	99	80	25	56	69	14,5	
0908 0228	28-8	25,00	401	120	90	28	63	81	24,4	

Safety Clevis Hook YOZG, self-locking



Item no.	Nominal size	Carrying capacity t	K	Size in mm			Weigth approx. kg	Price each
				P	T	H		
0908 0306	6-8	1,12	100	29	14	19	0,5	Price on enquiry
0908 0308	7/8-8	2,00	119	34	20	24	0,8	
0908 0310	10-8	3,15	143	44	26	30	1,5	
0908 0313	13-8	5,30	179	52	30	39	2,8	
0908 0316	16-8	8,00	212	60	36	49	5,6	
0908 0319	18/20-8	12,50	319	90	48	62	7,5	

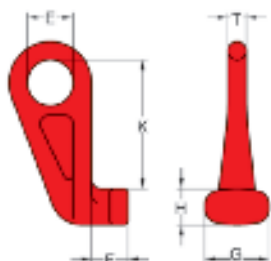


**Hooks
Grade 80**

DIN EN 1677

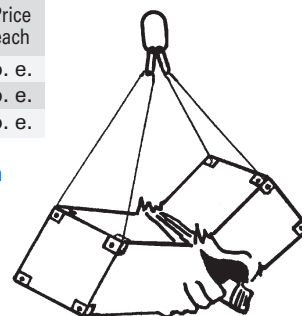
Dokkett

Container Hooks YCO for Overseas Container, 12.5 t carrying capacity



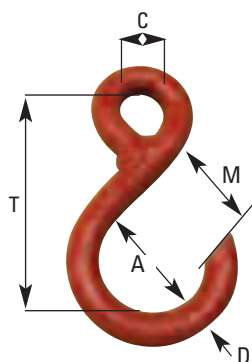
Item no.	Type	Size in mm						Weigth approx. kg	Price each
		K	E	F	T	G	H		
0905 0004	straight	192	70	46	25	75	48	4	o. e.
0905 0003	left	192	70	46	25	75	48	4	o. e.
0905 0005	right	192	70	46	25	75	48	4	o. e.

Container traverses Do 112 plus loading gear with 4 chains or ropes you will find on page 445.



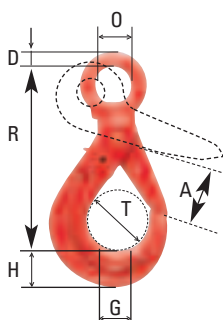
Do not lift by the upper corner angles!

S-Hooks, TRH, Eye Closed and Welded, with carrying capacity marking



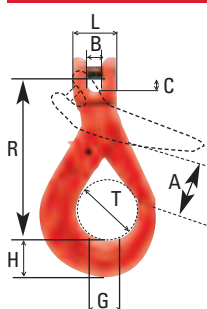
Item no.	Carrying capacity in t	Size in mm					Weigth approx. kg	Price each
		D	A	M	C	T		
0311 7001	0,13	8	28	23	15	64	0,07	Price on enquiry
0311 7002	0,20	10	36	30	17	78	0,13	
0311 7003	0,35	13	46	40	20	96	0,27	
0311 7006	0,60	16	50	45	24	114	0,43	
0311 7007	0,75	18	56	50	27	128	0,70	
0311 7010	1,00	20	64	55	30	144	0,90	
0311 7020	2,00	30	80	72	45	198	2,90	
0311 7032	3,15	36	104	90	60	262	5,38	
0311 7053	5,30	50	140	120	75	338	13,80	
0311 7089	8,00	60	160	135	90	398	24,00	
0311 7109	10,00	70	166	138	105	443	36,60	

Safety eye hook CR0, self-locking



Item no.	Nominal size	Carrying capacity t	Size in mm							Weigth approx. kg	Price each
			A	D	G	H	O	R	T		
0908 9106	6-8	1,12	28	11	16	21	21	109	35	0,50	Price on enquiry
0908 9108	8-8	2,00	34	12	20	26	25	135	43	0,96	
0908 9110	10-8	3,15	45	16	25	30	33	168	56	1,65	
0908 9113	13-8	5,30	51	20	35	40	40	205	69	3,25	
0908 9116	16-8	8,00	60	27	36	50	50	251	80	6,10	
0908 9120	20-8	12,50	70	30	60	67	60	290	90	9,80	
0908 9122	22-8	15,00	80	32	62	70	70	322	100	14,40	

Safety clevis hook CRF, self-locking



Item no.	Nominal size	Carrying capacity t	Size in mm							Weigth approx. kg	Price each
			A	B	C	G	H	R	T		
0908 9206	6-8	1,12	28	7	8	16	21	94	35	0,50	Price on enquiry
0908 9208	8-8	2,00	34	9	10	20	26	123	43	0,95	
0908 9210	10-8	3,15	45	12	14	25	30	143	56	1,60	
0908 9213	13-8	5,30	51	15	17	35	40	180	69	3,20	
0908 9216	16-8	8,00	60	19	19	36	50	215	80	6,00	
0908 9220	20-8	12,50	70	23	26	60	67	253	90	9,80	
0908 9222	22-8	15,00	80	26	32	62	70	287	100	14,40	

Forestry chains Grade 80

DIN EN 1677

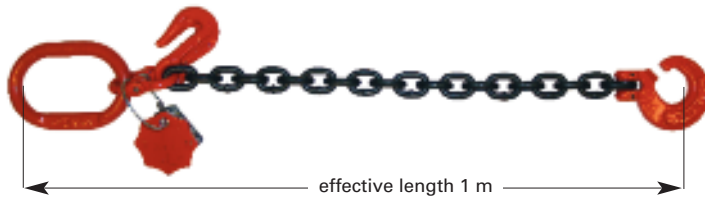
DoKett



Forestry chains
are only
for pulling loads.
Forestry chains
are not
qualified
to use for lifting.

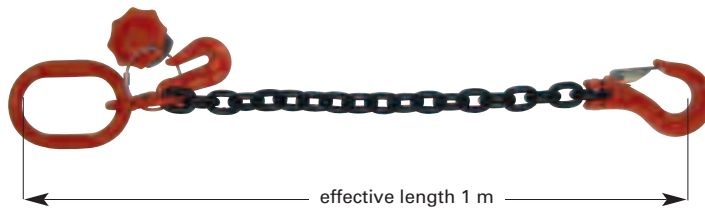


DoKett-Skiddingchain with Sling Hook YGF, Shortening Hook, galvanized



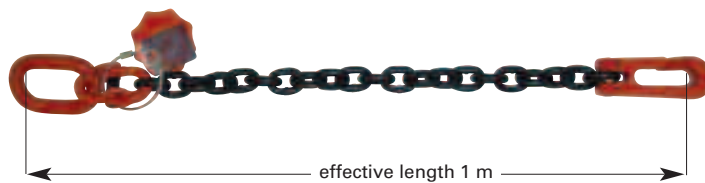
Item no.	Nominal thickness	Lashing capacity in t	Price / 1 m effective length	Price per extra meter
2970 0601	6-8	2,20	Price on enquiry	Price on enquiry
2970 0701	7-8	3,00		
2970 0801	8-8	4,00		
2970 1001	10-8	6,30		

DoKett-Skiddingchain with Clevishook GSE, Shortening Hook, galvanized



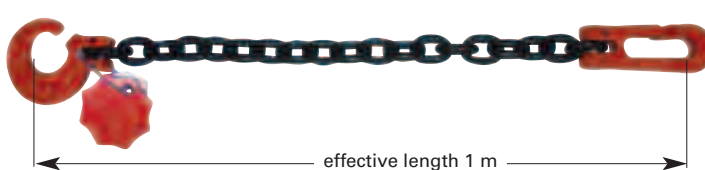
Item no.	Nominal thickness	Lashing capacity in t	Price / 1 m effective length	Price per extra meter
2971 0601	6-8	2,20	Price on enquiry	Price on enquiry
2971 0701	7-8	3,00		
2971 0801	8-8	4,00		
2971 1001	10-8	6,30		

DoKett-Chokerchain with End link and Chokerhook YGFS, Shortening Hook, galvanized



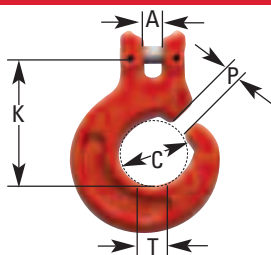
Item no.	Nominal thickness	Lashing capacity in t	Price / 1 m effective length	Price per extra meter
2972 0601	6-8	2,20	Price on enquiry	Price on enquiry
2972 0701	7-8	3,00		
2972 0801	8-8	4,00		

DoKett-Chokerchain with Chokerhook YGFS and Sling Hook YGF, galvanized



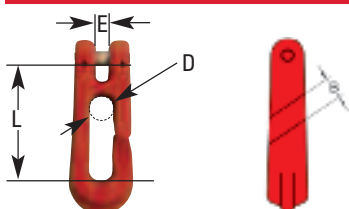
Item no.	Nominal thickness	Lashing capacity in t	Price / 1 m effective length	Price per extra meter
2973 0601	6-8	2,20	Price on enquiry	Price on enquiry
2973 0701	7-8	3,00		
2973 0801	8-8	4,00		

Chain-Sling Hook for Forestry chains YGF



Item no.	Nominal size	Carrying capacity t	Size in mm					Weigth approx. kg	Price each
			K	P	T	A	C		
0982 0106	6-8	1,12	47	8	17	8	26	0,3	o.e.
0982 0108	7/8-8	2,00	58	10	18	9	32	0,4	o.e.
0982 0110	10-8	3,15	82	12	21	13	45	0,8	o.e.

Rope-Chokerhook YGFS with Clevis suspension, for Forestry chains



Item no.	Nominal size	Carrying capacity t	Size in mm				Weigth approx. kg	Price each
			L	B	E	D		
0982 0207	6/7-8	1,50	78	14	9	16	0,5	o.e.
0982 0208	8-8	2,00	82	15	9	17	0,6	o.e.

! Not for lifting!

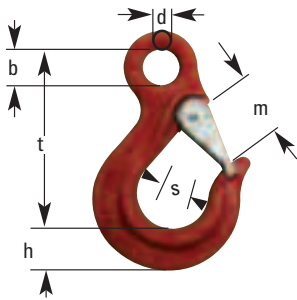


Hooks Grade 80

DIN EN 1677

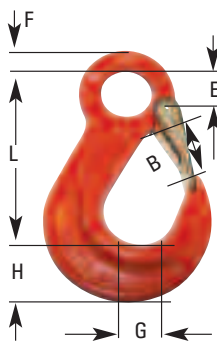
Dokkett

Eye Hooks OHS with solid Safety Latch



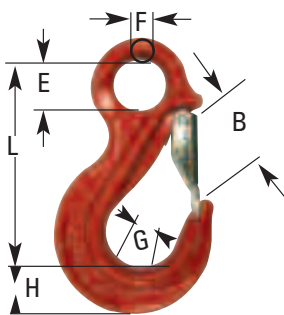
Item no.	Nominal size	Load capacity t	Size in mm							Weight approx. kg	Price each
			t	m	b	d	s	h			
0908 8106	6-8	1,12	103	26	24	12	23	30	0,6	Price on enquiry	
0908 8107	7-8	1,50	113	27	25	12	26	31	0,9		
0908 8108	8-8	2,00	119	27	32	16	31	34	1,1		
0908 8110	10-8	3,15	133	33	30	18	30	42	1,7		
0908 8113	13-8	5,30	192	44	39	21	43	47	3,4		
0908 8116	16-8	8,00	215	55	56	27	40	55	4,8		
0908 8119	18/20-8	12,50	234	60	61	33	43	63	7,8		

Eye Hooks OSE with solid Safety Latch



Item no.	Nominal size	Load capacity t	Size in mm							Weight approx. kg	Price each
			L	B	E	F	G	H			
0909 0106	6-8	1,12	80	20	20	8	14	20	0,27	Price on enquiry	
0909 0108	7/8-8	2,00	95	24	25	11	19	27	0,50		
0909 0110	10-8	3,15	120	29	34	14	23	33	0,90		
0909 0113	13-8	5,30	150	35	42	17	29	40	1,50		
0909 0116	16-8	8,00	183	44	52	22	35	49	2,75		
0909 0120	18/20-8	12,50	217	54	62	25	42	55	4,90		
0909 0122	22-8	15,00	224	62	60	30	51	60	7,10		

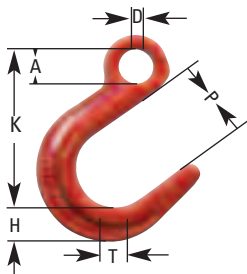
Eye Hooks YOS with improved Safety Latch



Item no.	Nominal size	Load capacity t	Size in mm							Weight approx. kg	Price each
			L	B	E	F	G	H			
0905 7506	6-8	1,12	80	23	20	9	16	19	0,30	Price on enquiry	
0905 7507	7/8-8	2,00	109	28	26	16	24	23	0,70		
0905 7510	10-8	3,15	137	33	34	19	26	30	1,20		
0905 7513	13-8	5,30	173	40	42	23	35	37	2,50		
0905 7516	16-8	8,00	185	44	52	28	36	46	3,70		
0905 7519	18/20-8	12,50	218	45	60	26	43	48	5,50		
0905 7522	22-8	15,00	244	73	50	31	50	62	9,00		
0905 7526	26-8	21,20	279	77	64	35	60	80	13,50		
0905 7532	32-8	31,50	352	114	88	40	65	86	20,00		

← With specially protected safety latch

Eye foundry Hook YOW



Item no.	Nominal size	Load capacity t	Size in mm							Weight approx. kg	Price each
			K	P	A	D	T	H			
0905 4607	7/8-8	2,00	122	61	24	12	20	30	0,7	Price on enquiry	
0905 4610	10-8	3,15	150	74	31	15	24	34	1,2		
0905 4613	13-8	5,30	180	88	40	20	34	42	2,5		
0905 4616	16-8	8,00	215	98	49	24	43	50	4,0		
0905 4619	18/20-8	12,50	248	112	60	28	46	57	6,6		

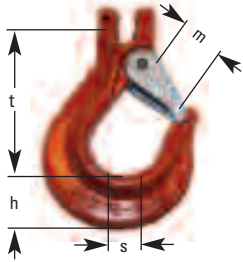
Nominal size 22, 28, 32 on request!

Clevis hooks Grade 80

DIN EN 1677

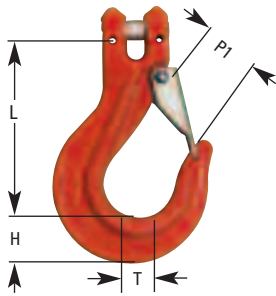
Dokkett

Clevis Hooks GHS



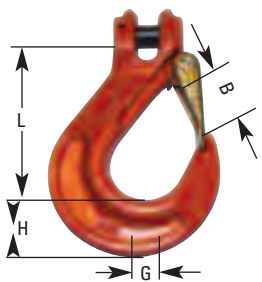
Item no.	Nominal size	Load-capacity t	t	m	Size in mm			Weight approx. kg	Price each
					s	h			
0907 6106	6/7-8	1,50	100	23	21	31	0,6	Price on enquiry	
0907 6107	7-8	1,50	106	27	23	33	0,8		
0907 6108	8-8	2,00	116	29	30	36	1,0		
0907 6110	10-8	3,15	126	34	31	44	1,5		
0907 6113	13-8	5,30	175	45	42	51	3,5		
0907 6116	16-8	8,00	185	60	38	58	5,2		
0907 6119	18/20-8	12,50	205	62	45	71	7,4		

Clevis Hooks YGS with Solid Safety Latch



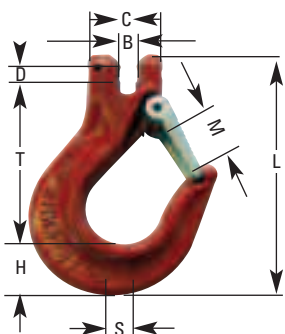
Item no.	Nominal size	Load-capacity t	L	P1	Size in mm			Weight approx. kg	Price each
					T	H			
0907 6206	6-8	1,12	79	23	15	18	0,3	Price on enquiry	
0907 6207	7/8-8	2,00	98	27	18	22	0,5		
0907 6210	10-8	3,15	121	34	23	29	1,2		
0907 6213	13-8	5,30	147	44	30	37	2,3		
0907 6216	16-8	8,00	166	48	39	42	3,7		
0907 6219	18/20-8	12,50	200	56	47	50	6,5		

Clevis Hooks GSE with Solid Safety Latch



Item no.	Nominal size	Load-capacity t	L	B	Size in mm			Weight approx. kg	Price each
					G	H			
0909 0206	6-8	1,12	73	19	14	20	0,24	Price on enquiry	
0909 0208	7/8-8	2,00	86	24	19	27	0,53		
0909 0210	10-8	3,15	105	29	23	33	0,95		
0909 0213	13-8	5,30	128	35	28	40	1,67		
0909 0216	16-8	8,00	155	45	37	48	3,00		
0909 0220	18/20-8	12,50	183	53	46	52	5,70		
0909 0222	22-8	15,00	213	62	50	62	8,80		

Clevis Hooks GHK with Safety Latch



Item no.	Nominal size	Load-capacity t	B	C	Size in mm						Weight approx. kg	Price each
					D	H	L	M	S	T		
0907 5706	6-8	1,12	6,5	37	8	22	108	22	16,5	70	0,4	Price on enquiry
0907 5707	7-8	1,50	7,5	40	8,8	26	133	30	19,5	92	0,6	
0907 5708	8-8	2,00	9	44	10	28	144	30	20,5	98	0,8	
0907 5710	10-8	3,15	11	53	12	35	181	39	28	124	1,6	
0907 5713	13-8	5,30	15	64	16	50	217	39	29	144	3,0	
0907 5716	16-8	8,00	17,5	82	20	51	250	45	39	169	5,1	
0907 5720	18/20-8	12,50	22	90	24	68	320	62	44	208	9,2	

* Spare parts for GHK-Haken see page 406!

Hooks Grade 80

DIN EN 1677

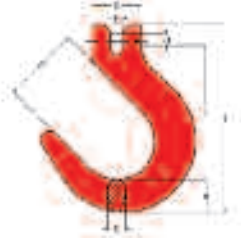
Dokkett



Hooks and other chain components of higher load capacity are available on request!

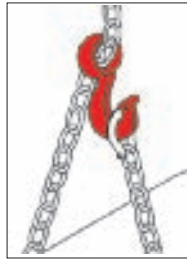
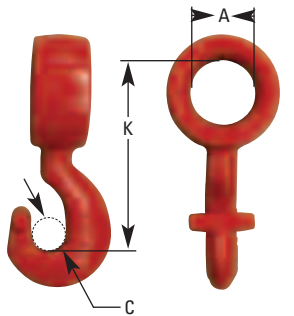
Spare parts for hooks and coupling links see page 406.

Clevis-foundry Hook CWG



Item no.	Nominal size	Load-capacity t	C	H	Size in mm				Price each
					L	M	S	T	
0907 6706	6-8	1,12	32	24	122	47	16	85	Price on enquiry
0907 6707	7-8	1,50	36	26	132	49	17	90	
0907 6708	8-8	2,00	40	29	156	63	21	109	
0907 6710	10-8	3,15	50	38	194	76	31	134	
0907 6713	13-8	5,30	60	43	233	88	37	161	
0907 6716	16-8	8,00	75	53	285	98	42	197	

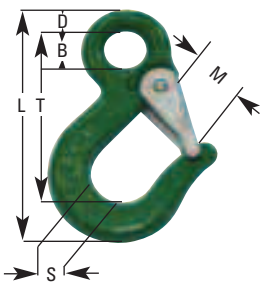
Choker Hooks YOLH (moveable)



Item no.	Nominal size	Load-capacity t	K	Size in mm			Weight approx. kg	Price each
				C	A			
0905 9907	7/8-8	2,00	95	19	32	0,4	Price on enquiry	
0905 9910	10-8	3,15	116	21	41	0,8		
0905 9913	13-8	5,30	150	27	50	2,0		
0905 9916	16-8	8,00	185	32	67	3,1		

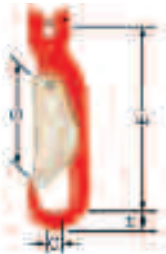
***Please keep in mind that loading capacity must be reduced about 20% in case of chain slings used in a choker hitch!**

SIKA Eye hook, type SPS



Item no.	Nominal size	No.	Load capacity t	B	D	Size in mm				Weight approx. kg	Price each
						L	M	S	T		
0310 8005	0,5	17	0,5	24	12	118	20	12	92	0,3	Price on enquiry
0310 8010	1,0	20	1,0	24	12	124	20	18	93	0,5	
0310 8016	1,6	22	1,6	26	13	140	24	18	105	0,7	
0310 8020	2,0	23	2,0	26	13	141	24	18	107	0,7	

Motor Transport Hooks with Clevis Connector, Grade 80



Item no.	Nominal size	Load-capacity t	E	G	Size in mm			Weight approx. kg	Price each
					H	C			
0905 0019	6-8	0,50	137	19	13	12	0,55	o.e.	

Insulated Intermediate Suspensions, admissible up to 1000 Volts, with Master Link and Clevis



Item no.	Nominal size	Load-capacity t	Size in mm							Weight approx. kg	Price each
			e	d	f	b	g	h	c		
0981 1112	6-8	1,12	313	18	120	75	24	17	16	1,70	Price on enquiry
0981 1200	8-8	2,00	340	18	120	75	30	22	22	2,10	
0981 1315	10-8	3,15	364	18	120	75	38	29	28	3,25	
0981 1530	13-8	5,30	433	22	141	90	45	37	36	5,20	

Choker hooks Grade 80

Dolett

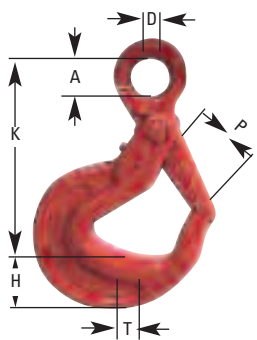


Hook SHK



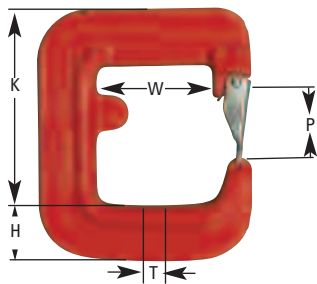
Hook HKH

Lifting choker hook SHK, self locking for use in suspensions and choker type lifting 3 t Carrying capacity



Item no.	Load-capacity t	K	P	Size in mm				Weight kg	Price
				A	D	T	H		
0911 8010	3,15	170	38	32	13	32	42	2,4	o.e.

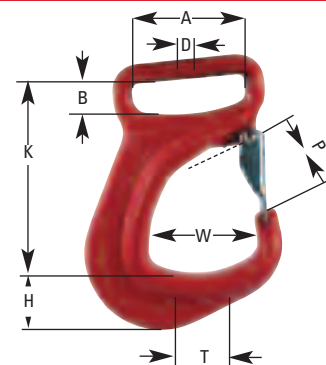
Lifting choker hook HSH for choker type lifting connectable with web slings and roundslings



Item no.	Load-capacity t	K	P	Size in mm			Weight kg	Price
				W	T	H		
0982 0610	1	79	28	45	22	26	0,7	Price on enquiry
0982 0620	2	87	34	71	25	35	1,7	
0982 0630	3	96	37	104	29	38	2,4	
0982 0650	5	154	40	185	40	50	7,2	

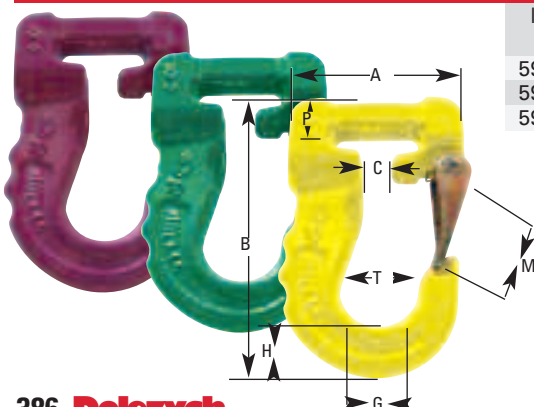


Lifting choker hook HKH for use in suspensions and choker type lifting. 2 t Carrying capacity



Item no.	K	P	Size in mm						Weight kg	Price
			B	A	D	W	T	H		
0982 0720	140	44	24	81	14	80	40	44	2,0	o.e.

Lifting choker hook UTH for use in suspensions and choker type lifting



Item no.	coloured	Load-capacity t	A mm	B mm	C mm	G mm	H mm	P mm	T mm	Weight approx. kg	Price each
5900 1306	magenta	1	78	123	12	17	20	16	31	0,7	Price on enquiry
5900 1308	green	2	91	148	19	21	26	17	40	1,2	
5900 1310	yellow	3	113	175	21	25	32	25	50	2,2	

4, 5 and 6 t on request.

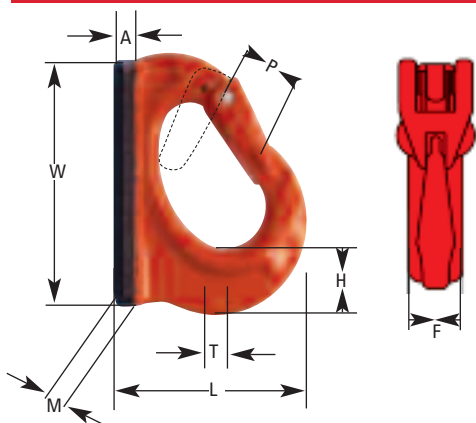
For connecting Web slings and Roundslings Carrying capacity according to the european color code DIN EN 1492/1+2



Weld-on Hooks Safety Snap Sets Grade 80

Dolez

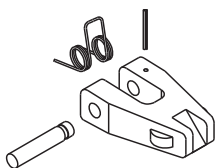
Weld-on Hook YAS*



Item no.	Load-capacity t	P	L	T	Size in mm				Weight approx. kg	Price each
					H	F	W	A	M	
0982 0810	1,0	18	70	18	27	25	95	7	4	0,6
0982 0820	2,0	25	85	20	30	30	115	8	5	1,0
0982 0830	3,0	28	107	23	30	35	133	9	6	1,4
0982 0840	4,0	28	114	30	38	42	142	10	7	1,9
0982 0850	5,0	30	135	31	47	44	167	12	7	3,1
0982 0880	8,0	32	137	39	52	50	176	12	8	3,5
0982 0891	10,0	44	170	42	56	56	222	13	8	6,2

* Pay attention to welding instructions or request more information!

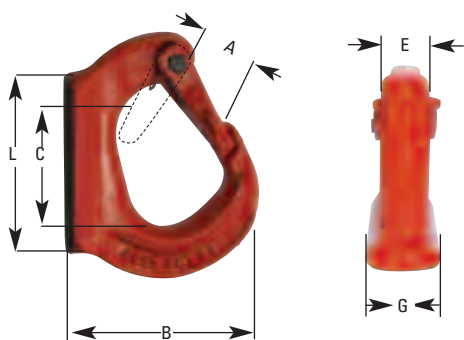
Safety Snap Sets for welded Hooks YAS



Item no.	load capacity	Price each
0982 9501	1	Price on enquiry
0982 9502	2	
0982 9503	3	
0982 9504	4	

Item no.	load capacity	Price each
0982 9505	5	Price on enquiry
0982 9508	8	
0982 9510	10	

Weld-on Hooks CAS* 805, Grade 80



Item no.	Load-capacity t	Size in mm					Weight approx. kg	Price each
		A mm	B mm	C mm	E mm	G mm	L mm	
0909 0701	1,12	25	76	59,5	20	25	97	0,48
0909 0702	2,00	26,5	92	67	22	34	114	0,85
0909 0703	3,00	30,5	106	75	24	36	129	1,12
0909 0705	5,00	34,5	136	94	30	45	171	2,50
0909 0708	8,00	34,5	140	94	39	51	177	3,20
0909 0710	10,00	51	171,5	134,5	39	53	223	5,20

* Pay attention to welding instructions or request more information!

Safety Snap Sets for welded Hooks CAS 805



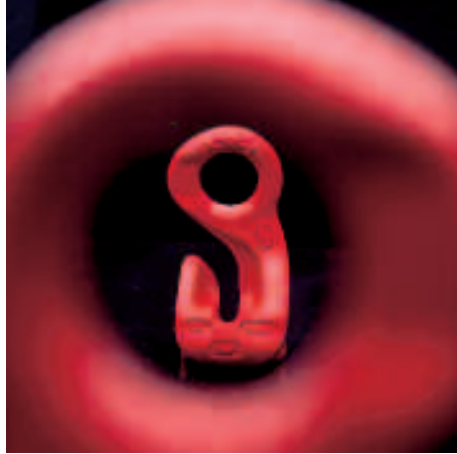
Item no.	load capacity	Price each
0909 9301	1	Price on enquiry
0909 9302	2	
0909 9303	3	

Item no.	load capacity	Price each
0909 9304	5	Price on enquiry
0909 9305	8	
0909 9308	10	

Shortening hooks Grab hooks

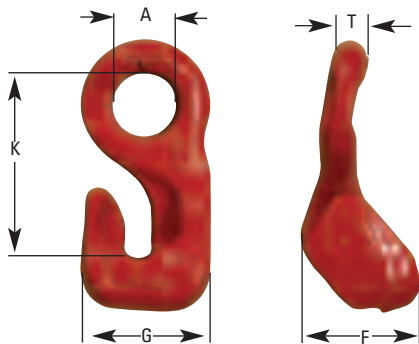
Grade 80
DIN EN 1677

DoKett



Warning! As recommended by the BG, shortening claws should only be used in the future when equipped with a safety and an adequate slot. Shortening hooks without any safety must have an adequate slot depth (5.5 x d) .

Shortening hooks with Eye YOY



Item no.	Nominal size	Load-capacity t	K	Size in mm			Weight approx. kg	Price each
				G	A	T		
0905 1706	6-8	1,12	54	38	20	10	35	0,2
0905 1707	7/8-8	2,00	67	49	25	12	44	0,4
0905 1710	10-8	3,15	75	60	32	14	57	0,9
0905 1713	13-8	5,30	106	80	40	19	73	1,9
0905 1716	16-8	8,00	131	97	50	22	88	3,2
0905 1719	18/20-8	12,50	160	114	60	27	10,7	5,8

Installation:

YOY-shortening hooks can be installed both at DoKett1 (with coupling link) as well as at DoKett2 (with chain connector).

Important:

Proper fitting position of the YOY-shortening hooks must be kept during installation!

Use:


DoKett 1 + 2 can be shortened quickly and easily to the desired length with YOY-shortening hooks. Desired chain

Installation and application instructions for YOY-shortening hooks

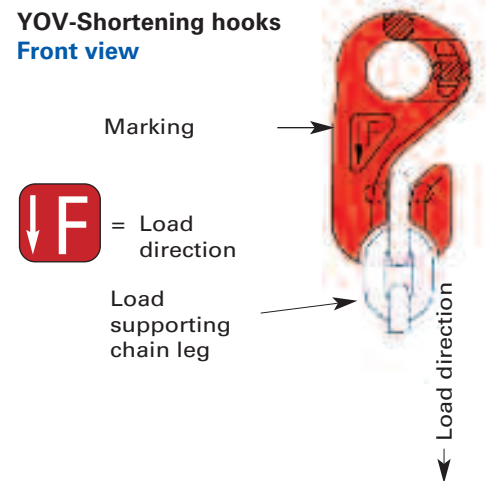
link will be inserted into the intended chain slot of the YOY shortening hook when chain leg shall be shortened.

Important:

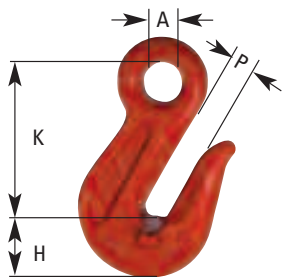
The chains must be subsequently inserted on the correct side of the marking. YOY-shortening hook is on a side with a sign for the load direction.

 The load supporting chain leg must be on this side.

YOY-Shortening hooks Front view



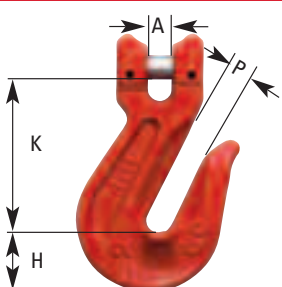
Eye grab hook YPO



Item no.	Nominal size	Load-capacity t	Size in mm				Weight approx. kg	Price each
			P	A	G	K		
0907 6506	6-8	1,12	8	13	8	51	25	0,2
0907 6508	7/8-8	2,00	10	15	9	60	30	0,3
0907 6510	10-8	3,15	13	20	13	82	41	0,6
0907 6513	13-8	5,30	16	25	15	106	52	1,2
0907 6516	16-8	8,00	20	30	20	131	57	2,3
0907 6519	18-20	12,50	23	36	24	132	73	3,9

Other sizes available on request!

Clevis grab hook YPG



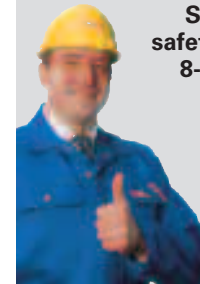
Item no.	Nominal size	Load-capacity t	Size in mm						Weight approx. kg	Price each
			A	P	F	K	H	L		
0906 0006	6-8	1,12	7	7	25	47	16	75	0,2	
0906 0007	7/8-8	2,00	9	10	30	55	21	93	0,3	
0906 0010	10-8	3,15	12	13	41	77	29	128	0,8	
0906 0013	13-8	5,30	15	16	52	99	37	165	1,5	
0906 0016	16-8	8,00	17	20	57	113	45	194	2,9	
0906 0019	18-20	12,5	23	23	98	124	54	217	3,9	

Other sizes available on request!

Shortening Clutch

**Grade 80
DIN EN 1677**

Dokkett

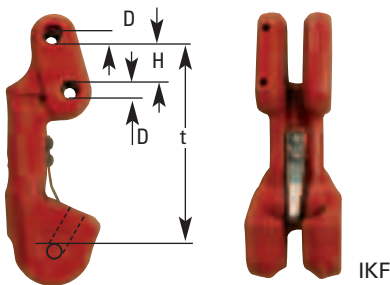


Shortening clutch with safety device available for 8-16 mm chain nominal size.

Your advantage:
Chains can be reduced at any point of the chain (leg)

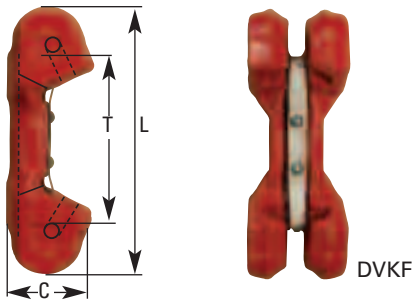


Shortening Clutch IKF with safety



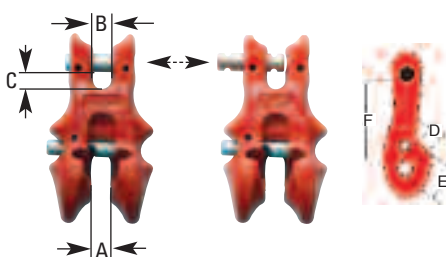
Item no.	Nominal size	Load-capacity t	Size in mm			Weight approx. kg	Price each
			D	H	T		
0981 9306	6-8	1,12	8	14	81	0,3	Price on enquiry
0981 9307	7-8	1,50	8,8	18	97	0,5	
0981 9308	8-8	2,00	10	19	104	0,8	
0981 9310	10-8	3,15	12	26	139	1,2	
0981 9313	13-8	5,30	13	36	179	2,6	

Shortening Clutch DVKF with safety



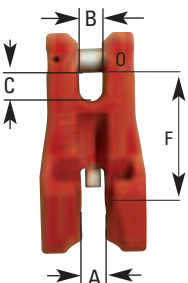
Item no.	Nominal size	Load-capacity t	Size in mm			Weight approx. kg	Price each
			C	L	T		
0981 9206	6-8	1,12	32	100	79	0,3	Price on enquiry
0981 9207	7-8	1,50	37	104	80	0,4	
0981 9208	8-8	2,00	42	142	91	0,9	
0981 9210	10-8	3,15	53	162	121	1,3	
0981 9213	13-8	5,30	69	210	160	2,5	

Shortening Clutch YVKS with safety Device



Item no.	Nominal size	Load-capacity t	Size in mm						Weight approx. kg	Price each
			A	B	C	D	E	F		
0905 0606	6-8	1,12	7	7	10	7	18	50	0,30	Price on enquiry
0905 0608	7/8-8	2,00	10	9	10	10	24	56	0,36	
0905 0610	10-8	3,15	12	11	12	12	28	66	0,91	
0905 0613	13-8	5,30	15	15	16	16	39	88	2,20	
0905 0616	16-8	8,00	21	18	19	19	48	103	3,60	
0905 0620	20-8	12,50	23	23	23	21	55	132	6,00	

Shortening Clutch YVKS with safety Device



Item no.	Nominal size	Load-capacity t	Size in mm				Weight approx. kg	Price each
			A	B	C	F		
0908 9006	6-8	1,20	8	8	10	45	0,21	Price on enquiry
0908 9008	8-8	2,00	9,5	9,5	10	56	0,48	
0908 9010	10-8	3,15	12	12	14,5	78	1,12	
0908 9013	13-8	5,30	15,5	15,5	18	90	1,83	
0908 9016	16-8	8,60	19	21	21	106	2,83	

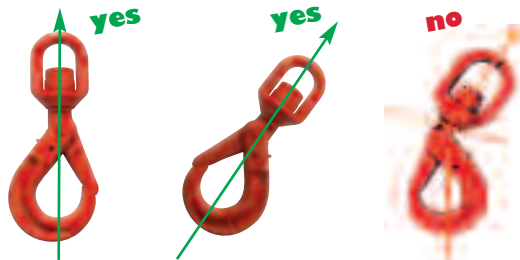
Swivel hooks S-hooks

Grade 80
DIN EN 1677

Dokkett

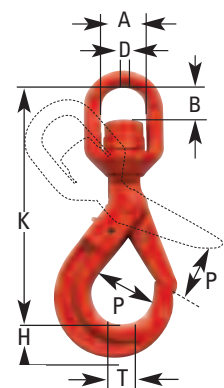


Please generally keep in mind when using hooks in rope and chain areas!



Loading axis must run parallel to hook axis. Bending situations must be excluded.

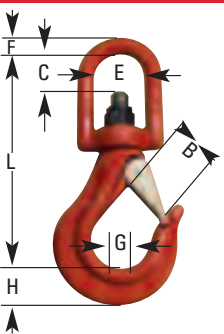
Swivel hooks YOZW, Self-Locking, rotary



Item no.	Nominal size	Load-capacity t	K	P	B	Size in mm				Weight approx. kg	Price each
						A	D	T	H		
0908 0406	6-8	1,12	149	29	22	31	12	15	19	0,7	Price on enquiry
0908 0408	7/8-8	2,00	168	34	29	36	14	20	24	1,2	
0908 0410	10-8	3,15	220	44	34	40	16	26	31	2,0	
0908 0413	13-8	5,30	267	52	43	46	22	30	39	4,0	
0908 0416	16-8	8,00	328	60	50	60	24	36	49	7,3	
0908 0420	18/20-8	12,50	388	90	82	75	26	48	62	11,6	
0908 0422	22-8	15,00	457	80	95	97	33	49	63	17,4	
0908 0426	26-8	21,20	534	99	115	123	42	56	69	29,4	

Swivel with brass slide bearing locks automatically when loading. Please also ask regarding ball-bearing availability. For insertion, when rotation of the hook is necessary under load, only ball bearing swivel hooks are appropriate. Further measurements (NG 22-8 und 26-8) on request.

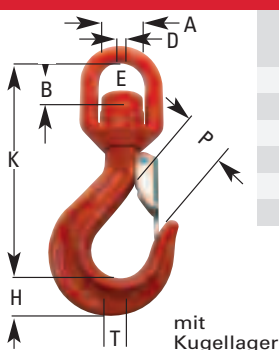
Swivel hooks WHS with Brass Slide Bearing or Ball Bearing, rotary



Item no. with brass bearing	Item no. with ball bearing*	Nominal size	Load-capacity t	E	C	Size in mm					Weight approx. kg	Price each	
						B	H	L	F	G		brass bearing	ball bearing
0908 1806	0918 1806	6-8	1,12	28	21	19	27	128	10	21	0,6	Price on enquiry	Price on enquiry
0908 1807	0918 1807	7-8	1,50	35	30	28	29	171	14	25	1,2		
0908 1808	0918 1808	8-8	2,00	36	32	28	32	180	17	30	1,4		
0908 1810	0918 1810	10-8	3,15	38	30	33	42	201	18	31	2,5		
0908 1813	0918 1813	13-8	5,30	61	58	44	48	288	28	42	5,5		

* When rotation of the hook is necessary under load, only ball bearing swivel hooks are appropriate.

Swivel hook with safety YWHK with Ball Bearing, rotary



Item no. mit Kugellager	Nominal size	Load-capacity t	K	P	Size in mm					Weight approx. kg	Price each
					B	A	D	T	G		
0905 9806	6-8	1,12	136	24	23	32	11	16	19	0,6	Price on enquiry
0905 9807	7/8-8	2,00	155	26	27	36	12	18	22	0,9	
0905 9810	10-8	3,15	189	36	37	42	16	23	29	1,5	
0905 9813	13-8	5,30	233	42	40	48	20	28	35	3,0	
0905 9816	16-8	8,00	281	50	55	60	22	35	44	5,1	
0905 9820	18/20-8	12,50	356	56	82	74	25	49	65	9,4	



Chain Slings Grade 120 Grade 80 DIN EN 1677

Dolett

Table of capacities, chains grade 120

	1-leg		2-legs		3- and 4-legs		Choker			
safety factor 4										
Tilt angle	-	-	bis 45°	45-60°	bis 45°	45-60°	bis 45°	45-60°	-	-
Load factor	1	0,8	1,4	1	1,12	0,8	2,1	1,5	1,6	-
Nominal size	load capacity(kg)									
7	2.360	1.900	3.350	2.360	2.650	1.900	5000	3.550	3.750	3.750
8	3.000	2.360	4.250	3.000	3.350	2.360	6300	4.500	4.750	4.750
10	5.000	4.000	7.100	5.000	5.600	4.000	10.600	7.500	8.000	8.000
13	8.000	6.300	11.200	8.000	9.000	6.300	17.000	11.800	12.500	12.300

Chain slings grade 120

In comparison to chain slings grade 100 the Working load limit of chain slings grade 120 is 20% higher, compared to grade 80 it is even 50% at the same nominal chain sickness.

Through the patented steel the Working range is from -60°C up to +200°C without loss of carrying capacity. Up to 300°C the WLL is still at 60%. Above 300°C the use is not permitted.

Price on enquiry!

Master links



AWP/MWP



VMWP

Eye hooks



HSWP



LHWP

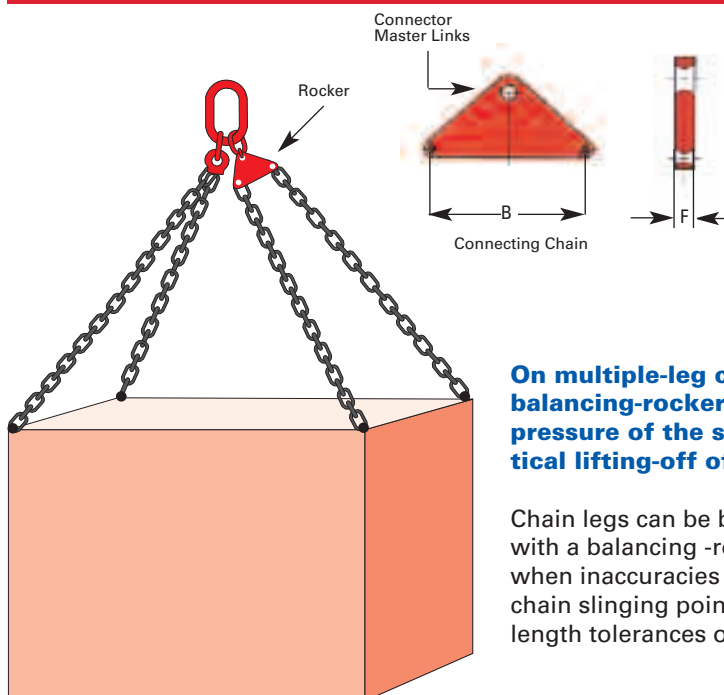
Grab hooks



PWP



Center of gravity compensator



Item no.	Nominal size	Connector coupling		Size in mm		Weight approx. kg	Price each
		to chain	to master link	B	F		
0908 1906	6-8	6-8	10-8	105	10	0,4	Price on enquiry
0908 1908	8-8	8-8	13-8	140	12	1,0	
0908 1910	10-8	10-8	16-8	165	15	1,4	
0908 1913	13-8	13-8	18-8	230	20	3,8	
0908 1916	16-8	16-8	22-8	290	25	7,6	
0908 1918	18-8	18-8	22-8	290	25	8,5	

Other sizes on request!

On multiple-leg chain slings, the balancing-rocker causes steady pressure of the single leg and vertical lifting-off of the load.

Chain legs can be balanced slightly with a balancing-rocker in practice when inaccuracies in the design of the chain slinging point and allowable length tolerances occur.

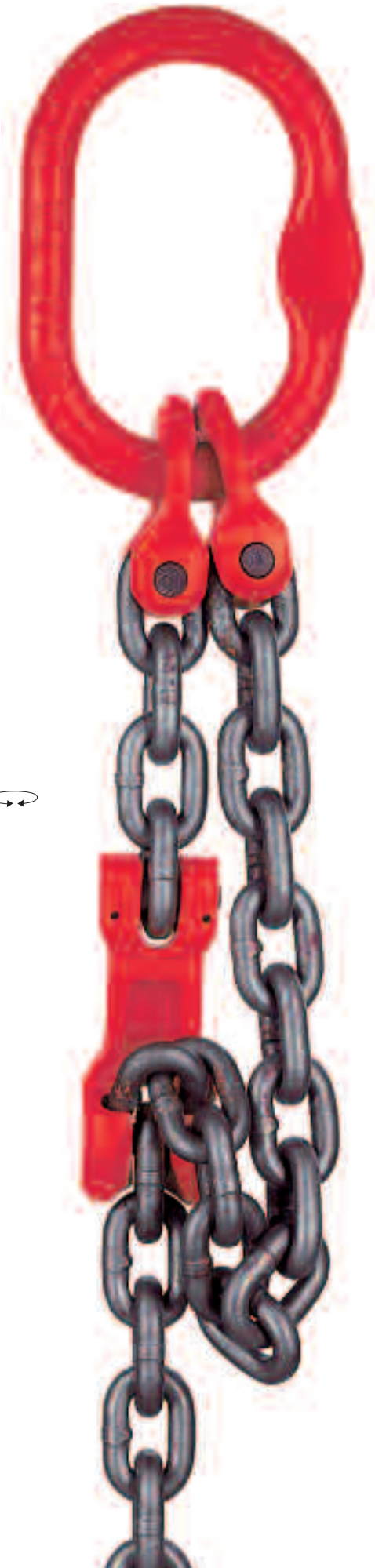
The reduction of the load capacity, specified by norm as asymmetric distribution of the pressure on only two legs, is compensated by balancing-rockers. Only 3 legs can be assumed as supporting. The loading capacity therefore increases.

Hooks Ball Bearing Swivel Grade 80 DIN EN 1677

Dolett

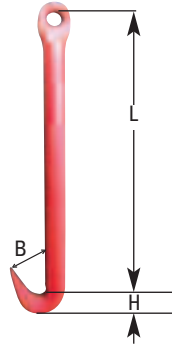


Twisted chains are to be separated before loading. Chain swivels (KWL + TWG) prevent any twisting of the chains.



Bale hooks TMH, Steel-Mat Hooks

Item no.	Nominal size	Load-capacity t	Size in mm			Weight approx. kg	Price each
			L	B	H		
0905 1206	6-8	1,12	216	44	16	0,4	o.e.
0905 1208	8-8	2,00	288	56	20	0,9	o.e.
0905 1210	10-8	3,15	360	69	24	1,7	o.e.

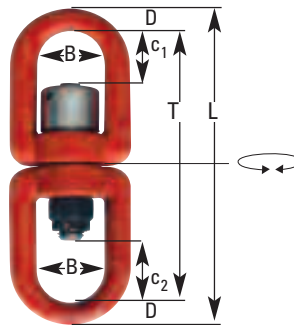


Chain-Ball Bearing Swivel, KWL

Item no.	Nominal size	Load-capacity t	Size in mm						Weight approx. kg	Price each
			B	C1	C2	D	L	T		
0980 6108	8-8	2,00	36	30	49	17	188	154	1,2	o.e.
0980 6110	10-8	3,15	38	33	51	19	204	166	1,5	o.e.
0980 6113	13-8	5,30	60	60	89	28	314	258	5,0	o.e.

Permanent rotation with full load capacity is not permitted!

360° rotary with full load capacity!

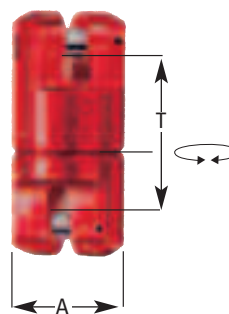


Chain Swivel TWG, Ball Bearing

Item no.	Nominal size	Load-capacity t	Size in mm		Weight approx. kg	Price each
			A	T		
0980 6006	6-8	1,12	36	52	0,4	Price on enquiry
0980 6008	8-8	2,00	41	60	0,6	
0980 6010	10-8	3,15	50	76	1,1	
0980 6013	13-8	5,30	60	86	1,8	

Permanent rotation with full load capacity is not permitted!

360° rotary with full load capacity!





Container Hooks Container Eyes

Grade 80
Grade 100
DIN EN 1677

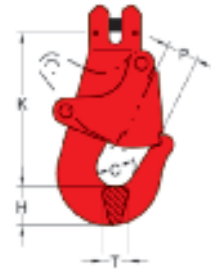
Dokkett

Assembled chain slings for container transport with hooks SHA or container eyes AOS Grade 100 with 25 % higher load capacity than chains of Grade 80, you can obtain on request.



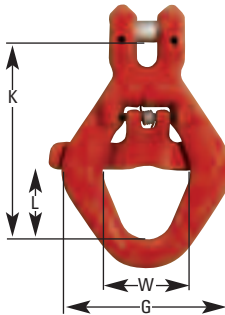
Container eyes are applicable for all container standards. Accidental hanging out of container hooks is prevented by the self-locking device.

Clevis-Container hooks YGAH



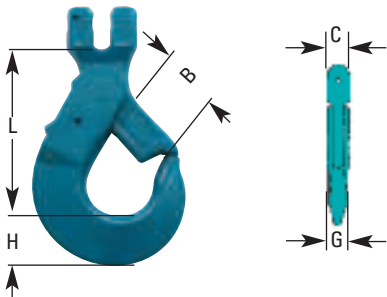
Item no.	Load-capacity t	Nominal size	Size in mm				Weight approx. kg	Price each	
			P	C	T	H			K
0906 1013	5,30	13-8	55	52	28	44	190	3,5	o.e.

Container eye for Container YGAO (5.3 t) + AGS (8 t) with Safety Latch on the Side



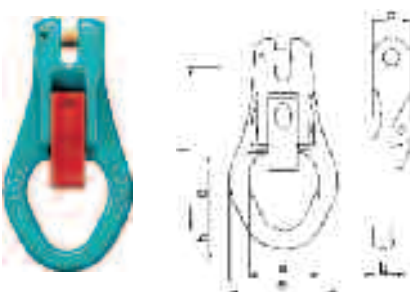
Item no.	Load-capacity t	Nominal size	K	Size in mm			Weight approx. kg	Price each
				L	W	B		
0905 5913	5,30	13-8	141	57	56	125	1,8	o.e.
0906 6016	8,00	16-8	148	57	65	127	2,6	o.e.

Container hooks SHA, Grade 100, self-locking



Item no.	Load-capacity t	Nominal size	H	Size in mm				Weight approx. kg	Price each
				B	C	G	L		
4906 1513	6,70	13	44	50	36	28	168	2,9	o.e.
4906 1516	10,00	16	44	50	36	28	166	2,93	o.e.

Container eye AOS, Grade 100



Item no.	Load-capacity t	Nominal size	Size in mm						Weight approx. kg	Price each	
			A	B	E	D	E	H			T
4906 1613	6,70	13	72	20	40	79	112	20	168	2,7	o.e.
4906 1616	10,00	16	72	20	40	79	112	20	166	2,8	o.e.

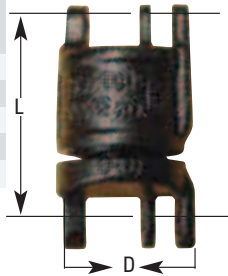
Swivel Non-confusable components Grade 80 DIN EN 1677

Dolett



Ball Bearing Swivel YKDI, insulated

Item no.	Nominal size	Load-capacity t	Size in mm		Weight approx. kg	Price each
			D	L		
0980 5508	7/8-8	2,00	50	75	0,5	Price on enquiry
0980 5510	10-8	3,15	62	94	1,2	
0980 5513	13-8	5,30	77	123	2,5	
0980 5516	16-8	8,00	94	143	4,4	
0980 5519	18/20-8	12,50	109	167	7,0	



Permanent rotation with full load capacity is not permitted!

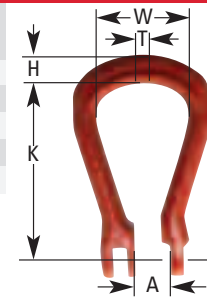
360° rotation with full load capacity!

Torsion catcher prevents twisting or distortion of the lifting device when in mid-air.

Insulated torsion catchers can be also used when welding on the hanging loads. Any emerging currents can thus cause no damages on the crane ropes or on the electrical equipment of the crane.

Coupling Link, open-ended YAGO

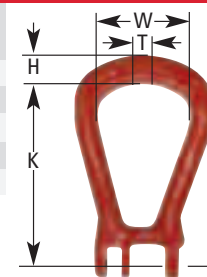
Item no.	Nominal size	Load-capacity t	K	Size in mm			Weight approx. kg	Price each
				W	T	H		
0980 5108	7/8-8	2,00	100	50	15	15	15	Price on enquiry
0980 5110	10-8	3,15	127	65	19	19	19	
0980 5113	13-8	5,30	145	72	23	22	25	
0980 5116	16-8	8,00	174	80	25	26	30	
0980 5119	18/20-8	12,50	204	104	31	36	36	



360° rotation with full load capacity! Permanent rotation with full load capacity is not permitted!

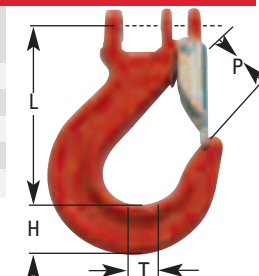
Coupling Link, closed-ended YAGS

Item no.	Nominal size	Load-capacity t	K	Size in mm			Weight approx. kg	Price each
				W	T	H		
0980 5208	7/8-8	2,00	100	50	15	15	78	Price on enquiry
0980 5210	10-8	3,15	127	65	19	19	101	
0980 5213	13-8	5,30	145	72	23	22	113	
0980 5216	16-8	8,00	174	80	25	26	137	
0980 5219	18/20-8	12,50	204	104	31	36	165	



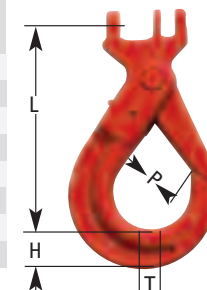
Safety Hooks YKHS

Item no.	Nominal size	Load-capacity t	L	Size in mm			Weight approx. kg	Price each
				P	T	H		
0980 5708	7/8-8	2,00	93	30	19	23	0,4	Price on enquiry
0980 5710	10-8	3,15	115	36	23	31	0,9	
0980 5713	13-8	5,30	141	42	28	36	1,8	
0980 5716	16-8	8,00	168	47	32	45	2,9	
0980 5719	18/20-8	12,50	193	52	43	48	4,7	



Safety Hooks SBK without Partial Link, self-locking

Item no.	Nominal size	Load-capacity t	L	Size in mm			Weight approx. kg	Price each
				P	T	H		
0982 0506	6-8	1,12	105	29	15	19	0,6	Price on enquiry
0982 0508	7/8-8	2,00	114	34	20	24	0,9	
0982 0510	10-8	3,15	123	44	26	30	1,8	
0982 0513	13-8	5,30	192	52	30	39	3,0	
0982 0516	16-8	8,00	207	60	36	49	6,0	
0982 0520	18/20-8	12,50	337	90	48	62	8,8	
0982 0522	22-8	15,00	422	80	49	63	11,3	
0982 0526	26-8	21,20	437	99	56	69	14,2	



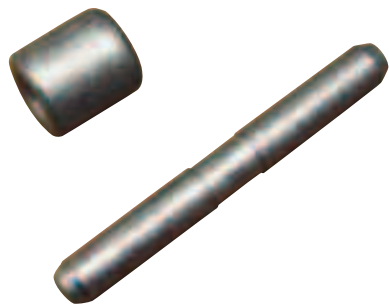


**Non-confusable
components
Grade 80
DIN EN 1677**

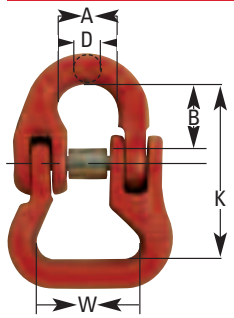
Dolett

Connecting bolt with clamping sleeve for coupling links (Y)

Item no.	for chain size in mm	Price each
0982 9906	6	Price on enquiry
0982 9908	7, 8	
0982 9910	10	
0982 9913	13	
0982 9916	16	
0982 9920	18, 20	
0982 9922	22	
0982 9926	26	
0982 9932	32	

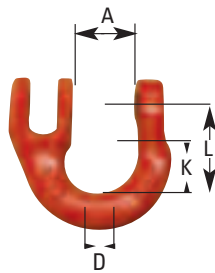


Round Sling Coupler with Partial Link YKKD



Item no.	Nominal size	Load-capacity t	Size in mm				Weight approx. kg	Price each
			A	B	D	K	W	
0915 1006	6-8	1,12	15	17	7	57	38	0,2
0915 1007	7/8-8	2,00	18	22	9	62	40	0,3
0915 1010	10-8	3,15	25	26	13	78	47	0,6
0915 1013	13-8	5,30	30	35	16	95	53	1,0
0915 1016	16-8	8,00	36	38	19	115	67	2,0
0915 1019	18/20-8	12,50	42	46	22	132	80	3,0
0915 1022	22-8	15,00	49	60	24	187	125	7,5
0915 1026	26-8	21,20	55	62	31	209	150	11,6
0915 1032	32-8	31,50	69	79	36	279	190	19,0

Partial Link with Connecting Bolt und Clamping sleeve YTV

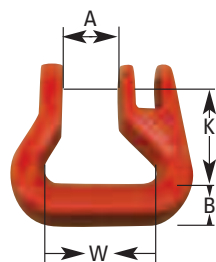


Item no.	Nominal size	Load-capacity t	Size in mm				Weight approx. kg	Price each
			L	A	D	K		
0980 5406	6-8	1,12	22	15	7	17	0,05	Price on enquiry
0980 5408	7/8-8	2,00	28	18	9	22	0,10	
0980 5410	10-8	3,15	34	25	11	26	0,20	
0980 5413	13-8	5,30	44	30	16	35	0,40	
0980 5416	16-8	8,00	52	36	19	38	0,70	
0980 5419	18/20-8	12,50	63	42	22	46	1,10	
0980 5422	22-8	15,00	76	49	24	59	1,70	
0980 5426	26-8	21,20	80	56	30	62	2,60	
0980 5432	32-8	31,50	100	69	36	79	4,90	



When ordering single components, the connecting bolts will be delivered in bulk for installation.

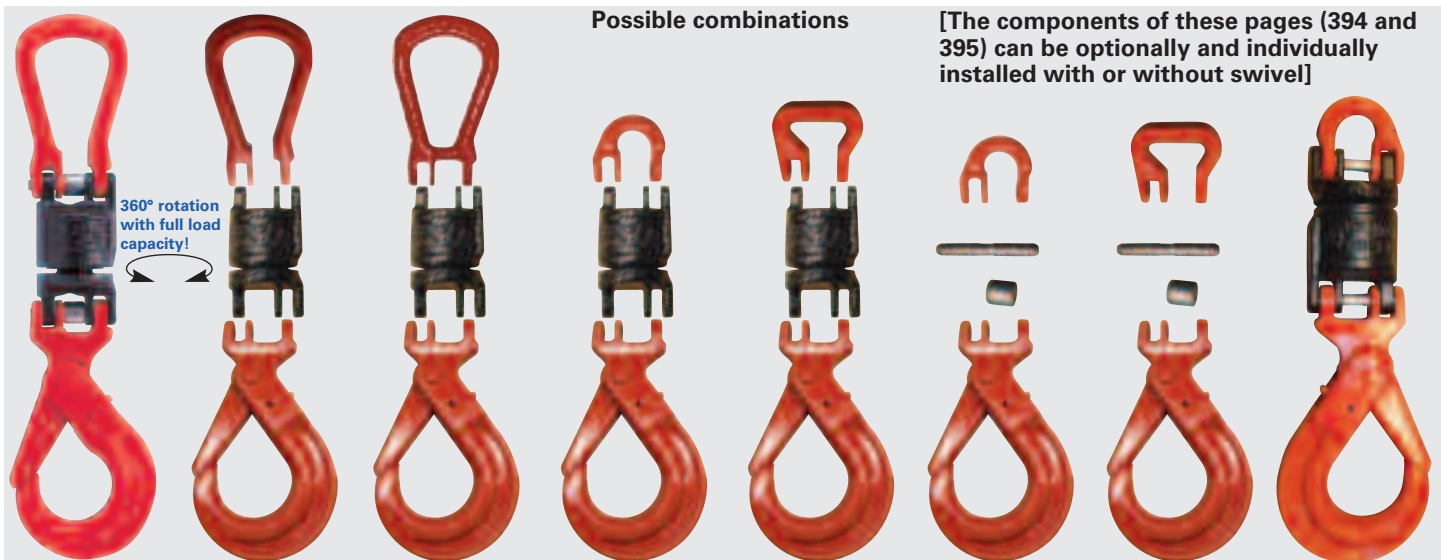
Round Sling Coupler without Partial Link YHRK



Item no.	Nominal size	Load-capacity t	Size in mm			Weight approx. kg	Price each
			K	W	A	B	
0915 0906	6-8	1,12	30	38	15	22	0,2
0915 0907	7/8-8	2,00	33	40	18	24	0,2
0915 0910	10-8	3,15	42	47	25	29	0,4
0915 0913	13-8	5,30	51	53	30	35	0,7
0915 0916	16-8	8,00	63	67	36	44	1,2
0915 0920	18/20-8	12,50	71	80	42	52	1,9
0915 0922	22-8	15,00	112	125	50	72	5,3
0915 0926	26-8	21,20	130	150	55	84	9,0
0915 0932	32-8	31,50	165	190	69	85	15,5

Possible combinations

[The components of these pages (394 and 395) can be optionally and individually installed with or without swivel]

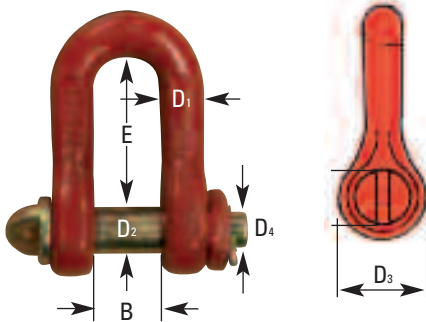


Shackles Fork-shackles Pole-Hooks

Dolez



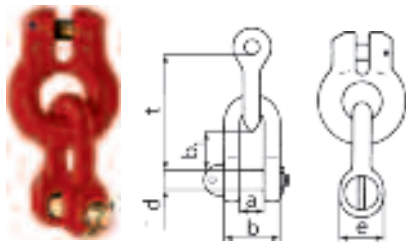
Shackles, Type C, Grade 80



Item no.	Nominal size	Nom. Size to DIN 82101	Load capacity t	Size in mm						Weight approx. kg	Price each
				D1	D2	D3	D4	B	E		
0902 0006	6-8	0,4	1,12	10	10	20	M10	13,5	29	0,10	Price on enquiry
0902 0008	8-8	0,6	2,00	13	12	24	M12	17	35	0,18	
0902 0010	10-8	1,0	3,15	15	16	31	M16	23	49	0,39	
0902 0013	13-8	1,6	5,30	19	20	37	M20	27	61	0,80	
0902 0016	16-8	2,5	8,00	24	24	47	M24	34	73	1,40	
0902 0018	18-8	3,0	10,00	27	27	56	M27	40	84	2,20	
0902 0020	18/20-8	4,0	12,50	27	30	60	M30	42	91	2,70	
0902 0022	22-8	5,0	15,00	33	36	72	M36	48	112	4,30	

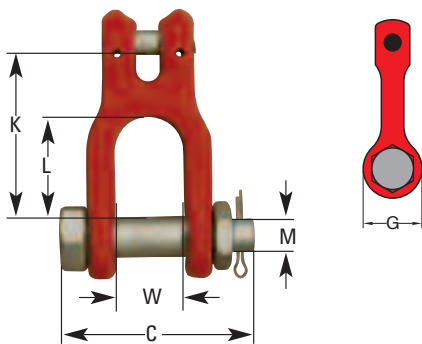
Other sizes on request!

Chain connector with Shackle TGVS (non-detachable)



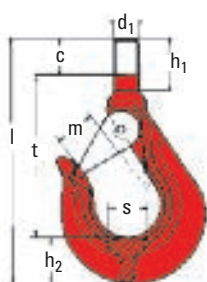
Item no.	Nominal size	Load-capacity	a	Size in mm				t	Weight approx. kg	Price each
				b	b1	d	e			
0905 3206	6-8	1,12	13,5	30	17	10	20	59	0,2	Price on enquiry
0905 3208	8-8	2,00	17,0	39	19	12	24	76	0,4	
0905 3210	10-8	3,15	23,0	49	30	16	31	100	0,8	
0905 3213	13-8	5,30	27,0	61	40	20	37	124	1,5	
0905 3216	16-8	8,00	34,0	76	43	24	47	151	3,0	
0905 3218	18-8	10,00	40,0	88	58	27	56	173	4,5	

Fork-shackle YSGS, Type C, Grade 80



Item no.	Nominal size	Load-capacity t	Size in mm						Weight approx. kg	Price each
			K	L	W	G	M	C		
0902 0007	7/8-8	2,00	59	35	33	34	16	79	0,4	Price on enquiry
0902 1010	10-8	3,15	78	48	37	40	20	93	0,8	
0902 1013	13-8	5,30	98	64	49	44	22	118	1,4	
0902 1016	16-8	8,00	112	69	60	54	28	141	2,4	

Pole-hook with thread and safety Latch



Item no.	Nominal size	Load-capacity t	Thread d	l	t	Size in mm					Weight approx. kg	Price each	
						c	h1	h2	s	m			
0312 7005	6-8	1,12	M 12	140	75	25	37	27	21	19	12,7	0,4	Price on enquiry
0312 7010	7-8	1,50	M 14	161,5	89	24,5	39,5	30	27	24	15	0,8	
0312 7008	8-8	2,00	M 16	180	101	28,7	46	32	30	28	17	0,9	
0312 7032	10-8	3,15	M 20	210	116	33	51	42	31	33	21,3	1,5	
0312 7050	13-8	5,30	M 24	275	152	49,1	75	47	42	44	25,5	3,3	

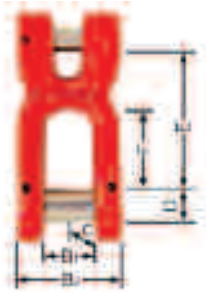
Only put load on pole hooks in a straight-line. When mounting, never put any pre-tension on the thread!



Special Shackles Chain-keys Grade 80 DIN EN 1677

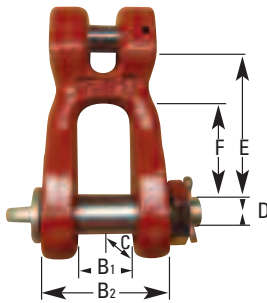
Dokkett

Special Fork-shackle 0861 with Slotted Bolt and Split-pin Locking, Grade 80



Item no.	Nominal size	WLL in t	e	Size in mm				b1	b2	Weight approx. kg	Price each
				d	c	f					
0902 4010	10-8	3,15	64	16	32	36	21	47	0,61	Price on enquiry	
0902 4013	13-8	5,30	82	20	40	49	27	61	1,24		
0902 4016	16-8	8,00	99	24	48	56	33	75	2,10		
0902 4018	18-8	10,00	115	30	60	63	42	100	3,93		

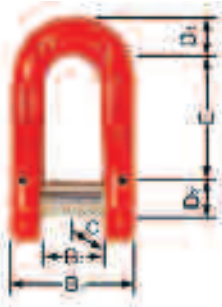
Fork-shackle 0897 – 6+8 mm/0862 from 10 mm, Grade 80, Type C, with Bolt, Nut, Split-pin



Item no.	Nominal size	WLL in t	E	D	Size in mm				Weight approx. kg	Price each
					C	F	B1	B2		
0902 1106	6-8	1,12	70	20	39	46	35	65	0,47	Price on enquiry
0902 1108	8-8	2,00	70	20	40	46	35	65	0,54	
0902 1110	10-8	3,15	64	16	32	36	21	47	0,67	
0902 1113	13-8	5,30	82	20	40	49	27	61	1,37	
0902 1116	16-8	8,00	99	24	48	56	33	75	2,28	
0902 1118	18-8	10,00	115	30	60	63	42	100	4,37	

Other nominal sizes on request!
Besonders geeignet im Maschinenbau.

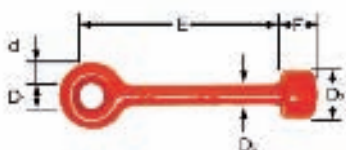
Special shackle 0886 – 6 mm/0870 from 10 mm with Slotted Bolt and Split-pin Lock, Grade 80



Item no.	Nominal size	Nominal size (DIN 82101)	Load- capacity/t	E	Size in mm						Weight approx. kg	Price each
					D1	D2	C	B1	B2			
0902 9906	6-8	0,4	1,12	40	10	10	20	14	36	0,15	Price on enquiry	
0902 9910	10-8	1,0	3,15	49	15	16	32	21	47	0,35		
0902 9913	13-8	1,6	5,30	61	19	20	40	27	61	0,74		
0902 9916	16-8	2,5	8,00	73	23	24	48	33	75	1,30		
0902 9920	18/20-8	4,0	12,50	91	29	30	60	42	96	2,60		
0902 9922	22-8	5,0	15,00	111	33	36	72	47	107	4,00		

Other nominal sizes on request!

Chain key for use in Shaft- and Underground Engineering



Item no.	Nominal size	WLL in t	E	Size in mm					Weight approx. kg	Price each
				D1	D2	D3	F	d		
0902 5110	10-8	3,15	168	20	17	40	25	17	0,82	o.e.

Other nominal sizes and dimensions on request!

Clevis Hooks

Plate Hooks

Dolez

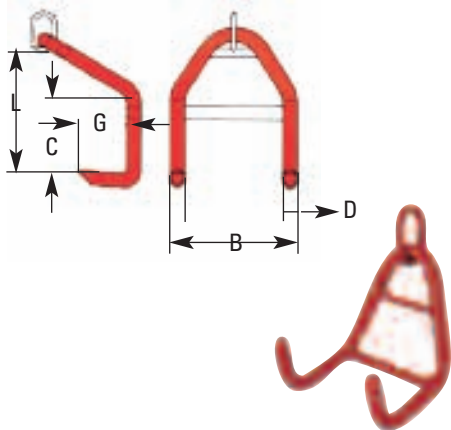


Clevis Hooks are to be used only in pairs!

Please do always consider the angle of inclination!



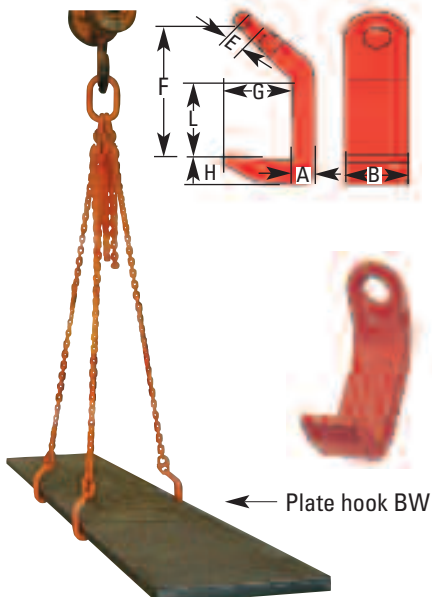
Clevis Hooks GH for horizontal transportation of Metal Sheets, Laminations and Steel-plates



Item no.	Nominal size	Load-capacity t	D	L	Size in mm			Weight approx. kg	Price each
					B	C	G		
0922 9006	6	1,40	23	203	190	100	65	2,10	Price on enquiry
0922 9008	8	2,50	30	300	254	150	100	5,40	
0922 9010	10	4,00	40	402	380	200	130	16,10	
0922 9013	13	5,30	50	592	500	300	195	31,50	
0922 9016	16	8,00	60	781	600	400	250	63,40	

Recommended tilt angle 30-45°, only to be used in pairs!
Pay attention to operation instruction or request info!

Plate Hook BW for Horizontal Transportation of Metal Sheets, Laminations and Steel plates



Item no.	Nominal size	Load-capacity t	F	A	Size in mm			Weight approx. kg	Price each		
					L	B	E	G	H		
0923 2008	8	2,50	131	18	80	50	28	55	18	1,12	Price on enquiry
0923 2010	10	4,00	157	20	100	70	32	65	20	2,60	
0923 2013	13	6,70	207	26	130	80	40	90	26	5,90	
0923 2016	16	10,00	261	33	160	100	50	110	33	10,80	
0923 2019	19	14,00	302	40	185	120	60	130	40	17,20	
0923 2022	22	19,00	363	50	220	140	75	150	50	31,30	

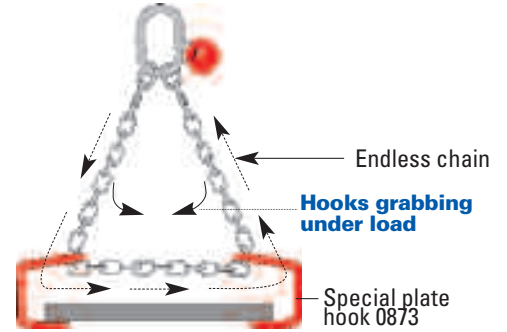
Plate hooks are to be used only with 3-leg chain slings in order to ensure safety and even load distribution. For lifting, only two chain legs do carry the load (hence 2-leg chains are insufficient!). Recommended tilt angle 15-30°. Pay attention to operation instructions.

BW plate hooks are not to be used in endless chain slings.



Special Components Plate Hooks T-Handle chains

Dolezych



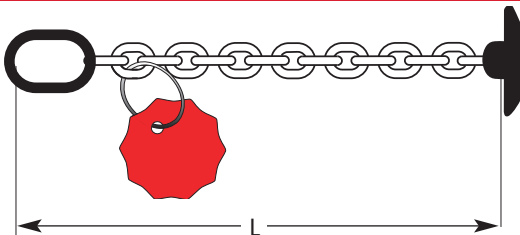
Special Plate Hook 0873, Grade 80, for Basket Chains



Item no.	Nominal size mm	load capacity t per pair	B	C	Size in mm			Weight approx. kg	Price each
					D	F	H		
0923 2106	6-8	1,60	90	60	32	60	20	2,4	Price on enquiry
0923 2108	8-8	2,80	90	80	38	70	25	3,5	
0923 2110	10-8	4,25	140	90	50	80	30	8,0	
0923 2113	13-8	7,50	145	100	62	90	35	10,5	
0923 2116	16-8	11,20	155	120	76	110	45	16,0	
0923 2120	18/20-8	17,00	175	120	92	120	62	25,0	
0923 2122	22-8	21,20	205	130	95	140	65	34,0	
0923 2126	26-8	30,00	230	140	115	160	75	50,0	
0923 2132	32-8	45,00	255	140	135	180	85	69,0	

Special hooks for lifting of metal sheet laminations and plates.
Only to be used in pairs up to tilt angle of $\beta=30^\circ$ and only for basketed chain slings.
Mounted basketed chain slings with special plate hooks - prices on request.

T-Handle Chain



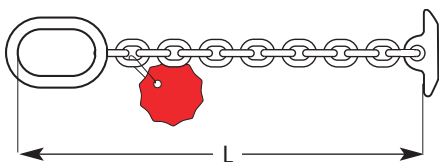
Item no.	Load capacity in t	Length mm	Number of links	Price each
1900 1001	1,6	405	10	o.e.
1900 1002	1,6	675	19	o.e.

T-Handle Chain

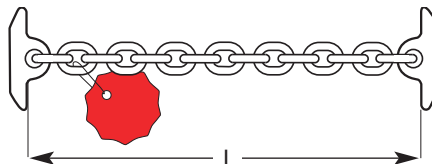
Item no.	Chain nom. size	Load capacity in t	Effect. length	Weight	Price each
B-link+t-handle	10-8	1.6	1000	2.60	Price on enquiry
B-link+t-handle	10-8	1.6	650	1.80	
with 2 t-handle	10-8	1.6	650	1.80	
single	10-8	1.6	650	1.80	
B-link+t-handle	13-8	3.15	1000	4.40	
with 2 t-handle	13-8	3.15	1000	4.40	
single	13-8	3.15	1000	4.40	

Other effective length on request!

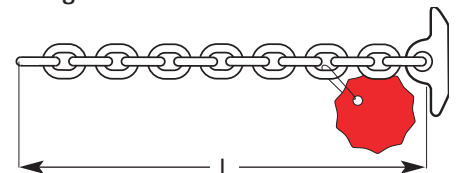
B-link + T-Handle



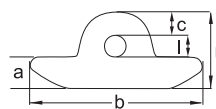
with 2 T-Handles



single with 1 T-Handle



T-Handles



	Size in approx. mm		
a	15	15	25
b	86	95	120
c	10	10	15
l	15	15	18
n	37	37	59
Material size	14	14	15
Weight	0,165 kg	0,170 kg	0,450 kg

DoKett Plus Components

DoKettPlus

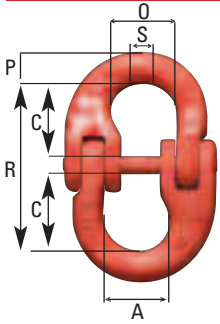


Only short link chains with a pitch not exceeding more than three times the diameter of the chain link are permitted to use as chain slings!

New: DoKettPlus chain accessories with increased load capacity.

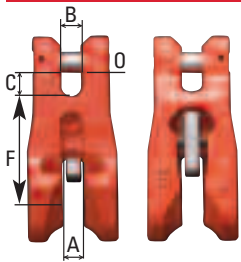
DoKettPlus components correspond to the standards of Grade 100 and have a 25% higher load capacity compared to standards of grade 80. They can be used up to 400°C (Keep in mind that load capacity loss occurs!).

Master Links type C



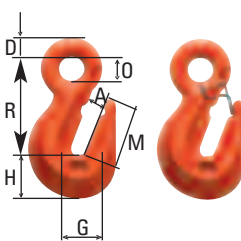
Item no.	Nominal size	Load-capacity t	A	C	Size in mm				Weight approx. kg	Price each
					O	R	P	S		
5925 0206	6	1,40	14	18	18	45	8	7,5	0,07	Price on enquiry
5925 0208	8	2,50	18	25	23	62	12	9,5	0,20	
5925 0210	10	4,00	23	30	27	70	12	12	0,35	
5925 0213	13	6,70	27	36	34	90	20	17	0,74	
5925 0216	16	10,00	33	40	39	105	22	20,5	1,16	
5925 0220	20	16,00	42	46	46	113	29	25	2,05	
5925 0222	22	19,00	49	55	58	133	30	28	3,10	
5925 0226	26	26,50	57	85	82	192	40	30	6,80	
5925 0232	32	39,50	-	-	-	-	-	-	-	

Shortening Clutch CVKS with safety



Item no.	Nominal size	Load-capacity t	A	Size in mm			Weight approx. kg	Price each
				B	C	F		
5925 0306	6	1,40	8	8	10	45	0,21	Price on enquiry
5925 0308	8	2,50	9,5	9,5	10	56	0,48	
5925 0310	10	4,00	12	12	14,5	78	1,12	
5925 0313	13	6,70	15,5	15,5	18	90	1,83	
5925 0316	16	10,00	19	21	21	106	2,83	

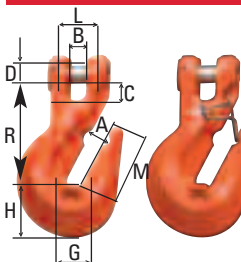
Eye Grab Hook CPOS up to 16 mm with safety, CPO 20 + 22 mm without safety**



Item no.	Nominal size	Load-capacity t	A	D	G	Size in mm				Weight approx. kg	Price each
						H	O	R	M		
5925 0406	6	1,40	8	8,5	22	22	12	51,5	35,5	0,18	Price on enquiry
5925 0408	8	2,50	10	11	30	28	17	69	47	0,40	
5925 0410	10	4,00	13	15	44	34	22	86,5	55	0,88	
5925 0413	13	6,70	17	18	53	47	26	110,5	81	1,95	
5925 0416	16	10,00	19	21	64	60	32	129	92	3,20	
5925 0420**	20	16,00	23,5	23	85	64	38	153	100	4,50	
5925 0422**	22	19,00	26	26	92	65	41	180	121	7,50	

CPO CPOS

Clevis Grab Hook CPGS up to 16 mm with safety, CPG 20 + 22 mm without safety**

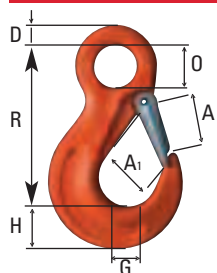


Item no.	Nominal size	Load-capacity t	A	B	C	Size in mm				Weight approx. kg	Price each
						G	H	R	M		
5925 1706	6	1,40	8	8	8,8	22	22	50,5	35,5	0,20	Price on enquiry
5925 1708	8	2,50	10	10	10,9	30	28	64,9	47	0,44	
5925 1710	10	4,00	13	13	14,9	34	34	79,9	55	0,96	
5925 1713	13	6,70	17	17	17,4	47	47	105,4	81	2,10	
5925 1716	16	10,00	19	19	18,3	64	60	111,8	92	3,40	
5925 1720**	20	16,00	23,5	23	22	84	65	118	100	5,20	
5925 1722**	22	19,00	26	26	25	92	65	154	120	7,80	

CPG CPGS

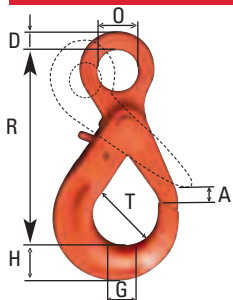


Eye Hooks with safety latch COSE



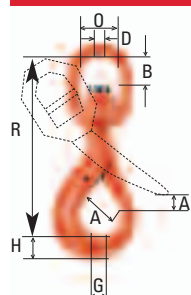
Item no.	Nominal size	Load-capacity t	A	A1	D	Size in mm			R	Weight approx. kg	Price each
						G	H	O			
5925 0506	6	1,40	26	19	10	16	20	20,5	81	0,25	Price on enquiry
5925 0508	8	2,50	33	26	11	19	29	25	101	0,50	
5925 0510	10	4,00	40	31	16	26	33	34	131	0,97	
5925 0513	13	6,70	51	40	19	33	42	43	159	1,90	
5925 0516	16	10,00	56	45	24,5	40	50	50	183	3,30	
5925 0520	20	16,00	58	52	27	48	53	55	203	4,50	
5925 0522	22	19,00	67	62	29	50	60	60	224	7,10	
5925 0526	26	26,50	77	73	35	60	75	70	257	12,00	
5925 0532	32	39,50	95	87	39	71	89	76	299	22,00	

Safety Hooks with Eye COZ, self-locking



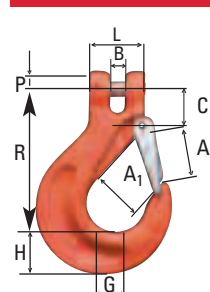
Item no.	Nominal size	Load-capacity t	A	D	G	Size in mm			R	T	Weight approx. kg	Price each
						H	O					
5925 0706	6	1,40	28	11	16	21	21	109	35	0,50	Price on enquiry	
5925 0708	8	2,50	34	12	20	26	25	135	43	0,96		
5925 0710	10	4,00	45	16	25	30	33	168	56	1,65		
5925 0713	13	6,70	51	20	35	40	40	205	69	3,25		
5925 0716	16	10,00	60	27	36	50	50	251	80	6,10		
5925 0720	20	16,00	70	30	60	67	60	290	90	9,80		
5925 0722	22	19,00	80	32	62	70	70	322	100	14,40		

Swivel Hooks COZW, rotary, self-locking



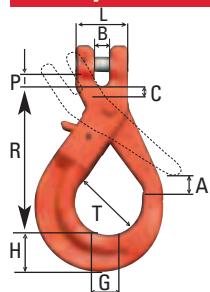
Item no.	Nominal size	Load-capacity t	R	A	B	Size in mm			H	Weight approx. kg	Price each
						O	D	G			
5925 0906	6	1,40	158	28	23	36	13	16	21	0,60	Price on enquiry
5925 0908	8	2,50	182	34	27	36	13	20	26	1,10	
5925 0910	10	4,00	217	45	35	42	16	25	30	2,00	
5925 0913	13	6,70	271	54	43	50	21	35	40	4,00	
5925 0916	16	10,00	320	62	58	62	24	38	50	6,80	

Clevis Hooks with safety CGSE



Item no.	Nominal size	Load-capacity t	A	A1	B	Size in mm			R	Weight approx. kg	Price each
						C	G	H			
5925 0606	6	1,40	26	19	7,2	8	15	20	69	0,25	Price on enquiry
5925 0608	8	2,50	34	26	9,5	10	19	28	95	0,50	
5925 0610	10	4,00	40	31	12	13,5	25	33	110	1,00	
5925 0613	13	6,70	51	40	15	17	30	40	136	1,70	
5925 0616	16	10,00	56	45	18	22	37	48	155	3,20	
5925 0620	20	16,00	60	53	23	25	51	52	185	5,00	
5925 0622	22	19,00	66	62	25	32	50	63	210	12,30	
5925 0626	26	26,50	77	73	30	34	60	75	230	13,50	
5925 0632	32	39,50	95	87	36	40	71	89	270	24,00	

Safety Clevis Hooks COZG, self-locking



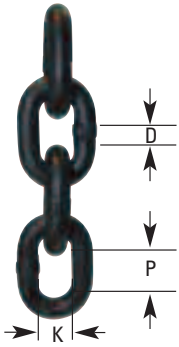
Item no.	Nominal size	Load-capacity t	A	B	C	Size in mm			R	T	Weight approx. kg	Price each
						G	H					
5925 0806	6	1,40	28	7	8	16	21	94	35	0,50	Price on enquiry	
5925 0808	8	2,50	34	9	10	20	26	123	43	0,95		
5925 0810	10	4,00	45	12	14	25	30	143	56	1,60		
5925 0813	13	6,70	51	15	17	35	40	180	69	3,20		
5925 0816	16	10,00	60	19	19	36	50	215	80	6,00		
5925 0820	20	16,00	70	23	26	60	67	253	90	9,80		
5925 0822	22	19,00	82	26	32	62	70	287	100	14,40		

Components for Chain Accessories DoKett Plus

DoKettPlus

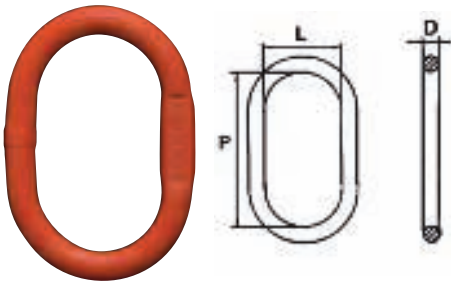


DoKett Plus Alloy Steel Chain



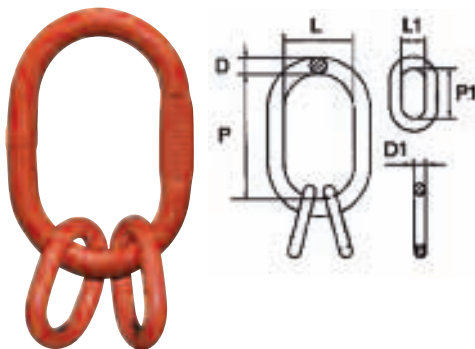
Item no.	Nominal size	Load-capacity t	D mm	K min. mm	P mm	Weight approx. kg/m	Price per meter
5900 0006	6	1,4	6	8,7	18	0,90	Price on enquiry
5900 0008	8	2,5	8	10,9	24	1,70	
5900 0010	10	4,0	10	13,5	30	2,46	
5900 0013	13	6,7	13	17,5	39	4,18	
5900 0016	16	10,0	16	22,5	48	5,80	

Master Links for 1/2-leg Chain Slings



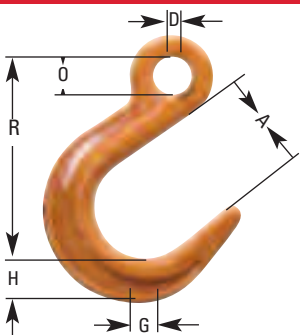
Item no.	Nominal size		Load capacity in t	D	Size in mm			Weight approx. kg	Price each
	1-leg chains	2-leg chains			P	L	L		
5925 1007	7	6	2,00	13	110	60	0,34	Price on enquiry	
5925 1008	8	7	2,50	16	110	60	0,53		
5925 1010	10	8	4,00	18	135	75	0,92		
5925 1013	13	10	6,70	22	160	90	1,60		
5925 1016	16	13	10,00	26	180	100	2,46		
5925 1018	18	16	14,00	32	200	110	4,14		
5925 1020	20	18	17,50	36	260	140	6,22		
5925 1022	22	20	22,40	40	300	160	8,95		
5925 1026	26	22	26,60	45	340	180	12,82		

Master Link Assemblies 3/4-leg Chain Slings



Item no.	Nominal size	Load capacity in t	D	Size in mm					Weight approx. kg	Price each
				P	L	D1	P1	L1		
5925 1106	6	2,00	18	135	75	13	54	25	1,32	Price on enquiry
5925 1108	8	5,30	22	160	90	16	70	34	2,32	
5925 1110	10	8,00	26	180	100	18	85	40	3,52	
5925 1113	13	14,00	32	200	110	22	115	50	6,26	
5925 1116	16	21,20	36	260	140	26	140	65	9,56	
5925 1120	20	33,60	50	350	190	33	150	70	22,65	
5925 1122	22	39,90	50	350	190	36	170	75	25,19	

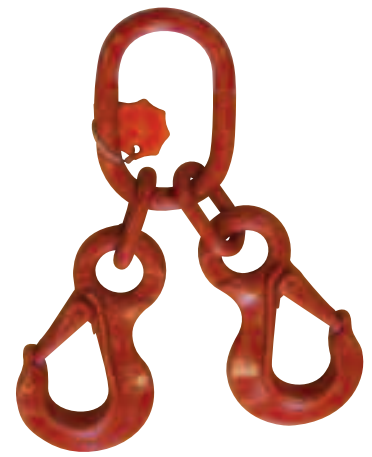
Eye Foundry Hook



Item no.	Nominal size	WLL in t	Size in mm						Weight approx. kg	Price each
			A	D	G	H	O	R		
5925 2608	8	2,50	64	13,5	25	29	18	125	0,92	Price on enquiry
5925 2610	10	4,00	76	14	23	30	32	150	1,77	
5925 2613	13	6,70	89	19	38	40	27	173	2,82	
5925 2616	16	10,00	102	24	45	48	47	210	5,03	
5925 2620	20	16,00	114	28	54	60	56	260	7,6	



DoKett Plus chains are available up to 16 mm nominal chain thickness, please enquire!

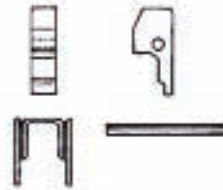


Bolts and Sleeves for Master Link Type C



Item no.	Nominal size	Price each
5925 1306	6	Price on enquiry
5925 1308	8	
5925 1310	10	
5925 1313	13	
5925 1316	16	
5925 1320	20	
5925 1322	22	
5925 1326	26	
5925 1332	32	

Safety for Shortening Claws CVKS



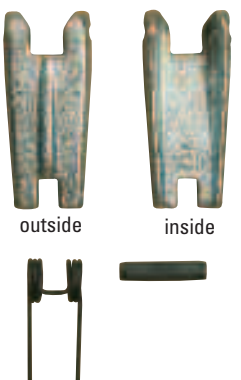
Item no.	Nominal size	Price each
5925 1506	6	Price on enquiry
5925 1508	8	
5925 1510	10	
5925 1513	13	
5925 1516	16	

Bolts and Slit-pins for Clevis Hooks/Shortening Claws/Parallel Hooks



Item no.	Nominal size	Description	Price each
5925 1601	6	Clevis hook COZG/CPGS/CPG + Shortening claw CVKS	Price on enquiry
5925 1602	6	Clevis hook CGSE	
5925 1604	8	Clevis hook COZG/CPGS/CPGS + Shortening claw CVKS	
5925 1605	10	Clevis hook COZG + Shortening claw CVKS	
5925 1606	10	Clevis hook CGSE	
5925 1607	10	Parallel hook mit Celvis CPGS/CPG	
5925 1608	13	Clevis hook COZG + Shortening claw CVKS	
5925 1609	13	Clevis hook CGSE	
5925 1610	13	Parallel hook PGS	
5925 1611	16	Clevis hook COZG + Shortening claw CVKS	
5925 1612	16	Clevis hook CGSE	
5925 1613	16	Parallel hook CPGS	
5925 1614	20	Parallel hook CPG	
5925 1615	20	Clevis hook CGSE	
5925 1616	22	Clevis hook CGSE + Parallel hook CPG	
5925 1617	26	Clevis hook CGSE	
5925 1618	32	Clevis hook CGSE	

Safety for Eye Hooks COSE + Clevis Hooks CGSE



Item no.	Nominal size	Price each
5925 1206	6	Price on enquiry
5925 1208	8	
5925 1210	10	
5925 1213	13	
5925 1216	16	
5925 1220	20	
5925 1222	22	
5925 1226	26	
5925 1232	32	

Spare Parts Kit for COZ and COZG Hooks



Item no.	Nominal size	Price each
5925 1406	6	Price on enquiry
5925 1408	8	
5925 1410	10	
5925 1413	13	
5925 1416	16	
5925 1420	20	
5925 1422	22	

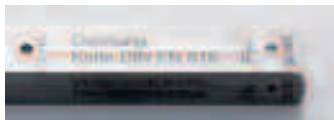
Elongation Gauge and Chain Gauge

Installation Kit



The 3-dimension Chain Gauge

- Helps inspecting in use as well as recommended or compulsory inspections by means of 3-dimensional chain gauge are carried out quickly and simply:
- **Chain sling** on elongation (elongation measurement of chain DIN-EN 818). For all chain slings and chains Grade 80 DIN-EN 818-4 + DIN-EN 818-2 of chain thickness- \varnothing 6-22 mm (grade 10 chains on request).



- **Manual chain hoist** measures chain wear (Measurement of chain attrition to DIN-EN 818) for chains- \varnothing of 4 - 11 mm



- **Motor chain hoist** wear indicator (Measurement of chain attrition DIN-EN 818) for chains- \varnothing of 3.1 - 9 mm



Inspection timeframe according to BGR 500: Visual inspection intervals of maximum 12 months and special inspections intervals of maximum 36 months. Check for absence of breakings, carried out by a competent and qualified person.

Use of 3-dimensional Chain Gauge

- 1) Definition of the chain to be tested
 - 2) The caliper squares are attached in a way that corresponds to tested chain type, chain nominal size and pitch (according to the tag, name plate, inspection book or manufacturer's information)
 - All round outer edges of pins have to face outwards
 - Small caliper gauges for chain nominal size of 3.1 - 11.0 mm
 - Big caliper squares for chain nominal size of 13 - 22.0 mm
- knurled screw of one of the moveable head in benchmark (hole)
 - to the knurled screw of the other moveable head is fixed in corresponding chain nominal size hole)

Pay attention to operation instructions or request additional information!

Elongation Gauge

Item no.	Price each
0900 5000	o.e.



Chain ready for use!

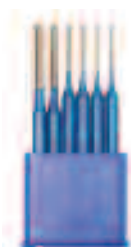
If it's possible to insert the caliper square pins into the chain link gaps **over 5 links** into the chain link gaps of a horizontal hanged chain, then the chain is ready for use.



Chain must be replaced!

If it's **impossible** to insert the caliper square pins into the chain link gaps **over 5 links** into the chain link gaps of a horizontal hanged chain, **the chain must be replaced.** (improper elongation respectively improper wear).

Installation Kit for Chain Slings



Item no.	Price each
0905 0007	o.e.

Consisting of 6x mandrels (pins) for loosening connections of chain and components of chain slings – packed in plastic supporting stand, suitable for all nominal sizes.

Chain Gauge



Item no.	Price each
0905 0001	o.e.

For regular inspections for chain slings in use. Suitable for chain nominal sizes of 6 to 32 mm.



Special Components

Dokkett

Tags for labelling Grade 80

Technical info on the tags helps users to use chain slings properly.

- 1 Chain nominal size
- 2 Chain-leg number
- 3 Tilt angle
- 4 Load capacity
- 5 CE-labelling

1-Leg

Item no.	Price each
0940 0121	1,60



Multiple-Leg

Item no.	Price each
0940 0132	1,60



Inspection Plate Chain Slings

Item no.	Price each
0999 9998	1,20



Special components according to your requirements are available on request!

Spare Parts for Chain Accessories Grade 80

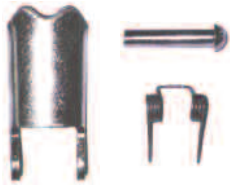
Dolett

Safety lock set for clevis lock GH (FS)



Item no.	Nominal size	Price each
4905 9506	6	Price on enquiry
4905 9508	8	
4905 9510	10	
4905 9513	13	
4905 9516	16	
4905 9518	18	
4905 9522	22	

Safety Snap Sets for OKN/GKN/SKN-Hooks



Item no.	Nominal size	Price each
0905 9506	6-8	Price on enquiry
0905 9507	7/8-8	
0905 9510	10-8	
0905 9513	13-8	
0905 9516	16-8	
0905 9519	18/20-8	
0905 9522	22-8	

Latch set for GHK-Hooks



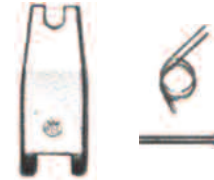
Item no.	Nominal size	Price each
09060406	6-8	Price on enquiry
09060407	7-8	
09060408	8-8	
09060410	10-8	
09060413	13-8	
09060416	16-8	
09060420	18/20-8	

Spare Parts for self-locking Hooks



Item no.	Nominal size	Price per
BK-BKG-BKL		Price on enquiry
0318 5010	6-8	
0318 5020	7-8	
0318 5032	10-8	
0318 5050	13-8	
0318 5080	16-8	
0318 5150	18/20-8	

Latch Sets for OHS/GHS/WHS-Hooks



Item no.	Nominal size	Price each
0318 1005	6-8	Price on enquiry
0318 1010	6/7-8	
0318 1018	7/8-8	
0318 1030	10-8	
0318 1050	13-8	
0318 1100	16-8	
0318 1100	18/20-8	

Bolts and Safety Pins for Omega Shackle (Y) + Clevis + Hooks YGS + YOZG + YGAH - (13-8)



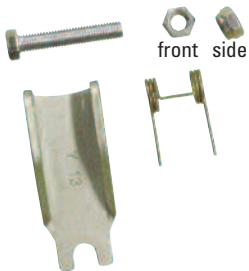
Item no.	Nominal size	Price each
0982 9706	6-8	Price on enquiry
0982 9708	7/8-8	
0982 9710	10-8	
0982 9713	13-8	
0982 9716	16-8	
0982 9720	18/20-8	

Spare Parts complete for Container Hooks



Item no.	Latch set Nominal size	Price each
SKC		o.e.
0319 0080	13-8	

Safety Snap Sets for Eye hooks and Clevis hooks YOS+YGS+DoClick



Item no.	Nominal size	Price each
0982 9606	6-8	Price on enquiry
0982 9608	7/8-8	
0982 9610	10-8	
0982 9613	13-8	
0982 9616	16-8	
0982 9620	18/20-8	
0982 9622	22-8	
0982 9626	26-8	

Spare Parts for self-locking Safety Hooks YOZ + YOZG + YOZW



Item no.	Nominal size	Price each
0982 9806	6-8	Price on enquiry
0982 9808	7/8-8	
0982 9810	10-8	
0982 9813	13-8	
0982 9816	16-8	
0982 9820	18/20-8	

Safety Snap Sets for OSE/GSE-Hooks



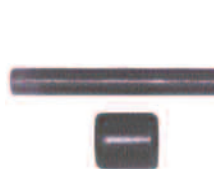
Item no.	Nominal size	Price each
0909 9906	6-8	Price on enquiry
0909 9908	7/8-8	
0909 9910	10-8	
0909 9913	13-8	
0909 9916	16-8	
0909 9920	18/20-8	

Pin set for hooks GSE- und CRF, Shortening clutch CX



Item no.	Nominal size	Price each
0905 8906	6-8	Price on enquiry
0905 8907	7-8	
0905 8908	8-8	
0905 8910	10-8	
0905 8913	13-8	
0905 8916	16-8	
0905 8920	18-20-8	

Pin set for coupling link CL GK 8



Item no.	Nominal size	Price each
0905 2406	6-8	Price on enquiry
0905 2407	7-8	
0905 2408	8-8	
0905 2410	10-8	
0905 2413	13-8	
0905 2416	16-8	
0905 2420	20-8	
0905 2422	22-8	

Pin set for GHS- and GHK-Hooks



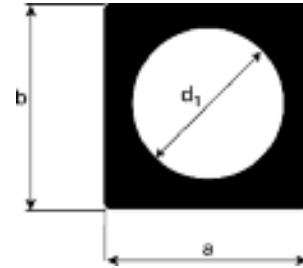
Item no.	Nominal size	Price each
0905 9406	6/7-8	Price on enquiry
0905 9407	7-8	
0905 9408	8-8	
0905 9410	10-8	
0905 9413	13-8	
0905 9416	16-8	
0905 9419	18/20-8	



DoLex Edge protection hose

Spare Parts for DoComfort

DoComfort



DoLex PU – Edge protection for chains (square)

DoLex edge-protection-hoses for chains are wear-resistant, firm for cutting and have good elasticity. The chain can float slightly in the tube. This results in an optimal spreading out of force which allows turning of loads with corresponding great bending radii. Also appropriate as a noise and hand protection.

Minimum purchase: 2 m pro order item.

Additional costs for other tube length: from 2 m to 4 m + 10 %, for more than 4 m + 15 %.

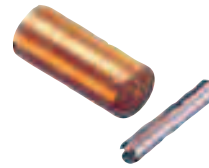
Special lengths please inquire.

Please note:

The tubes are measured only in units of 0.5 m.

Item no.	Nominal size	Internal size mm	External size a x b	Price per m
5538 9006	6-8	26	36 x 36	Price on enquiry
5538 9008	8-8	32	42 x 42	
5538 9010	10-8	42	52 x 52	
5538 9013	13-8	50	60 x 60	
5538 9016	16-8	63	73 x 73	

Bolts and pins for all DoComfort clevis locks



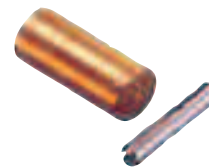
Item no.	Nominal size	Price each
4905 3306	6	Price on enquiry
4905 3308	8	
4905 3310	10	
4905 3313	13	
4905 3316	16	
4905 3318	18	
4905 3322	22	

Snaps, Springs, C-Lock Pin for SHAC Container Hooks



Item no.	Nominal size	Price each
4905 9413	13	o.e.
4905 9416	16	o.e.

Bolts + Pins for Container Hooks SHA



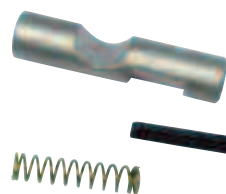
Item no.	Nominal size	Price each
4905 9410	13	o.e.
4905 9411	16	o.e.

Snaps, Springs, C-Lock Pin for AOS Container Eyes



Item no.	Nominal size	Price each
4905 9414	13	

Spare Parts for DoClick Hooks AVK and Shortening claw YVKS Bolts. Spring + C-Lock Pin



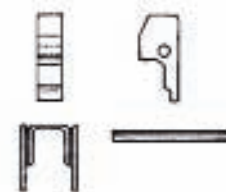
Item no.	Nominal size	Price each
0982 8706	6-8	Price on enquiry
0982 8707	7/8-8	
0982 8710	10-8	
0982 8713	13-8	
0982 8716	16-8	

Latch set for selflocking hooks CRO and CRF



Item no.	Nominal size	Price each
0909 9606	6-8	Price on enquiry
0909 9608	8-8	
0909 9610	10-8	
0909 9613	13-8	
0909 9616	16-8	

Latch set for shortening clutch CX



Item no.	Nominal size	Price each
0909 9406	6-8	Price on enquiry
0909 9407	7-8	
0909 9408	8-8	
0909 9410	10-8	
0909 9413	13-8	
0909 9416	16-8	

Chain Slings Grade 100 Non-confusable system

DoComfort



DoComfort – the Chain System in High Grade Your advantage:

- With the same nominal diameter, up to 25 % more load capacity compared to chain systems of Grade 80. Hence: significant weight reduction at the same load capacity
- Compliant with all requirements of EU-standards EN 818-4
- Less wear of chain links and accessories through higher surface hardness
- Impact toughness in comparison to Grade 80 more than doubled
- In itself a non-confusable system, only chains and components with equal load capacity can be combined with another
- Elongation strain at least 20 %
- Load capacity at temperatures up to + 200° C = 100 %, from + 200° C - + 300° C = 90 %, from + 300° C - + 400° C = 75 % of nominal load capacity
- Quality-Management-System DIN EN ISO 9001:2000 warranted, constantly high quality standard. Moreover, regular inspection of the production through external inspection agencies




All chain components have:

- Official approval stamp of BG for the presently highest possible Grade 100 in the area of chain slings
- Standard turquoise color

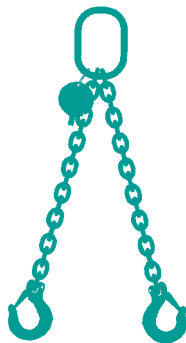
For safety reasons, components or chains of DoComfort-System are not to be combined neither with special grade of other manufacturers, nor with components or spare parts of other grades. Safety is guaranteed only then, if all turquoise components as well as connecting bolts are of gold color - for this reason an unambiguous matching is guaranteed.




1-leg Chain



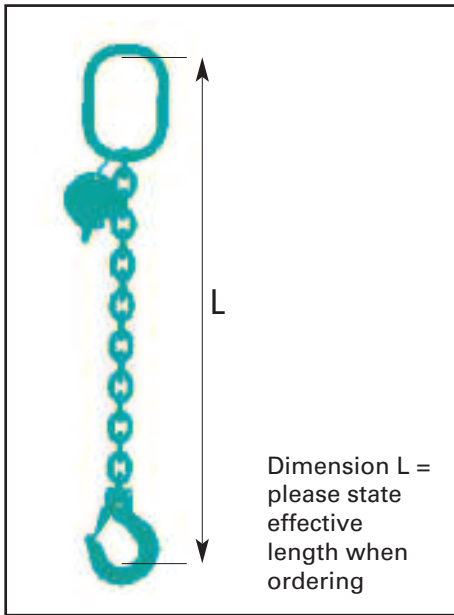
Load capacity t with tilt angle	Chain Nominal size	with Hook	with Hook and Shortening claw	with End-link	
					
		Please complete the Item no. with the chain nominal size „ . . “. price per 1 Meter effective length			Price each extra meter
β 0°	mm	4944 . . 01	4945 . . 01	4923 . . 01	
1,40	06	Price on enquiry	Price on enquiry	Price on enquiry	
2,50	08	Price on enquiry	Price on enquiry	Price on enquiry	
4,00	10	Price on enquiry	Price on enquiry	Price on enquiry	
6,70	13	Price on enquiry	Price on enquiry	Price on enquiry	
10,00	16	Price on enquiry	Price on enquiry	Price on enquiry	
12,50	18	Price on enquiry	Price on enquiry	Price on enquiry	
19,00	22	Price on enquiry	Price on enquiry	Price on enquiry	

2-leg Chains*



Load capacity t with tilt angle	Chain nominal size	with Hook	with Hook and Shortening claw	with End-link	
					
		Please complete the Item no. with the chain nominal size „ . . “. price per 1 Meter effective length			Price each extra meter
β 0-45° β 45-60°	mm	4944 . . 02	4945 . . 02	4923 . . 02	
2,00 1,40	06	Price on enquiry	Price on enquiry	Price on enquiry	
3,55 2,50	08	Price on enquiry	Price on enquiry	Price on enquiry	
5,60 4,00	10	Price on enquiry	Price on enquiry	Price on enquiry	
9,50 6,70	13	Price on enquiry	Price on enquiry	Price on enquiry	
14,00 10,00	16	Price on enquiry	Price on enquiry	Price on enquiry	
18,00 12,50	18	Price on enquiry	Price on enquiry	Price on enquiry	
26,50 19,00	22	Price on enquiry	Price on enquiry	Price on enquiry	

* In case of unbalanced loading, always assume the bearing capacity of only a one-leg suspension.



Chain Slings Grade 100 Unambiguously marked

DoComfort

3-leg**



Load capacity at inclination angle	Nominal chain size	with hook	with hook and shortening claw	with end link	Price add. m
		Complete the Item no. with the nominal chain size " . . .". Price per 1 m. effective length			
		4944 . . 03	4945 . . 03	4923 . . 03	
β 0-45°	β 45-60°	mm			
3,00	2,12	06			
5,30	3,75	08	Price on enquiry	Price on enquiry	Price on enquiry
8,00	6,00	10			
14,00	10,00	13			
21,20	15,00	16			
26,50	19,00	18			
40,00	28,00	22	Price on enquiry	Price on enquiry	Price on enquiry



4-leg**



Load capacity at inclination angle	Nominal chain size	with hook	with hook and shortening claw	with end link	Price add. m
		Complete the Item no. with the nominal chain size " . . .". Price per 1 m. effective length			
		4944 . . 04	4945 . . 04	4923 . . 04	
β 0-45°	β 45-60°	mm			
3,00	2,12	06			
5,30	3,75	08	Price on enquiry	Price on enquiry	Price on enquiry
8,00	6,00	10			
14,00	10,00	13			
21,20	15,00	16			
26,50	19,00	18			
40,00	28,00	22	Price on enquiry	Price on enquiry	Price on enquiry



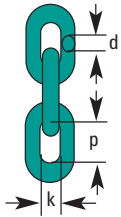
** For uneven loads, the load capacity of a 2-leg chain only – depending on the biggest inclination angle β - can form the basis for a load carrying calculation.

Round steel chain "A" master links Grade 100 Non-confusable system

DoComfort



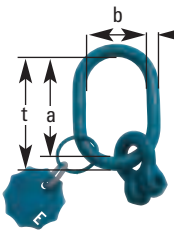
Round steel chain



Item no.	Nominal size	Carrying cap. in t	d mm	k mm	p mm	Weight approx. kg/m	Price per meter
4970 0006	6	1,4	6	8,0	18	0,80	Price on enquiry
4970 0008	8	2,5	8	10,8	24	1,50	
4970 0010	10	4,0	10	13,5	30	2,30	
4970 0013	13	6,7	13	17,5	39	3,90	
4970 0016	16	10,0	16	20,8	48	5,80	
4970 0018	18	12,5	18	23,4	54	7,40	
4970 0022	22	19,0	22	28,6	66	11,00	

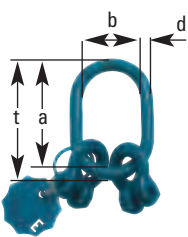
DoComfort chains can be supplied with additional corrosion protection (e.g. chains for skips and containers). Please inquire.

"A" master links with coupler links and shackles for 1-leg chains



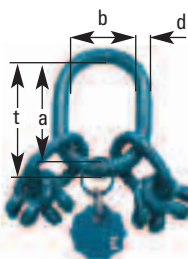
Item no.	Nominal size	Carrying cap. in t	d mm	a mm	b mm	t mm	Weight approx. kg	Price each
4905 5106	A-1 6	1,4	13	110	60	140	0,60	Price on enquiry
4905 5108	A-1 8	2,5	16	110	60	151	0,90	
4905 5110	A-1 10	4,0	18	135	75	186	1,35	
4905 5113	A-1 13	6,7	22	160	90	223	2,40	
4905 5116	A-1 16	10,0	26	180	100	257	0,40	
4905 5118	A-1 18	12,5	32	200	110	290	6,20	
4905 5122	A-1 22	19,0	36	260	140	364	10,50	

"A" master links with coupler links and shackles for 2-leg chains



Item no.	Nominal size	Carrying cap. in t	d mm	a mm	b mm	t mm	Weight approx. kg	Price each	
		β 0-45° β 45-60°							
4905 5206	A-2 6	2,00	1,40	13	110	60	140	0,70	Price on enquiry
4905 5208	A-2 8	3,55	2,50	18	135	75	176	1,40	
4905 5210	A-2 10	5,60	4,00	22	160	90	210	2,45	
4905 5213	A-2 13	9,50	6,70	26	180	100	243	4,20	
4905 5216	A-2 16	14,00	10,00	32	200	110	277	7,05	
4905 5218	A-2 18	18,00	12,50	36	260	140	349	11,00	
4905 5222	A-2 22	26,50	19,00	45	340	180	444	20,50	

"A" master links with coupler links and shackles for 3/4-leg chains



Item no.	Nominal size	Carrying cap. in t	d mm	a mm	b mm	t mm	Weight approx. kg	Price each	
		β 0-45° β 45-60°							
4905 5406	A-4 6	3,0	2,12	18	135	75	219	1,60	Price on enquiry
4905 5408	A-4 8	5,3	3,75	22	160	90	271	3,20	
4905 5410	A-4 10	8,0	6,00	26	180	100	315	5,30	
4905 5413	A-4 13	14,0	10,00	32	200	110	378	9,30	
4905 5416	A-4 16	21,2	15,00	36	260	140	477	16,30	
4905 5418	A-4 18	26,5	19,00	45	340	180	580	28,00	
4905 5422	A-4 22	40,0	28,00	50	350	190	624	40,50	



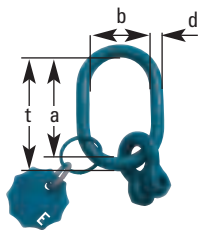
"B" master links Grade 100 Non-confusable system

DoComfort

"B" master links have the same load-carrying capacities as A master links, but have smaller construction size. This makes shorter chain lengths possible.

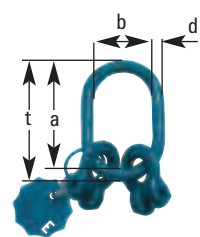


"B" master links with fork-connector and shackles for 1-leg chains



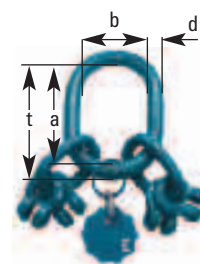
Item no.	Nominal size	Carrying cap. in t	d mm	a mm	b mm	t mm	Weight approx. kg	Price each
4905 7106	6	1,4	13	54	25	84	0,60	Price on enquiry
4905 7108	8	2,5	16	70	34	111	0,75	
4905 7110	10	4,0	18	85	40	135	1,00	
4905 7113	13	6,7	22	115	50	178	2,00	
4905 7116	16	10,0	26	140	65	217	3,60	
4905 7118	18	12,5	32	150	70	240	5,50	
4905 7122	22	19,0	36	170	75	274	8,00	

"B" master links with fork-connector and shackles for 2-leg chains



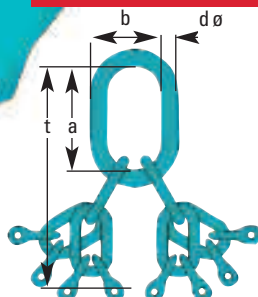
Item no.	Nominal size	Carrying cap. in t		d mm	a mm	b mm	t mm	Weight approx. kg	Price each
		β 0-45°	β 45-60°						
4905 7206	6	2,00	1,4	13	54	25	84	0,65	Price on enquiry
4905 7208	8	3,55	2,5	16	70	34	111	0,95	
4905 7210	10	5,60	4,0	18	85	40	135	1,50	
4905 7213	13	9,50	6,7	22	115	50	178	2,70	
4905 7216	16	14,00	10,0	26	140	65	217	5,70	
4905 7218	18	18,00	12,5	32	150	70	240	7,60	
4905 7222	22	26,50	19,0	36	170	75	274	10,30	

"B" master links with fork-connector and shackles for 3/4-leg chains



Item no.	Nominal size	Carrying cap. in t		d mm	a mm	b mm	t mm	Weight approx. kg	Price each
		β 0-45°	β 45-60°						
49057306	6	3,0	2,12	16	70	34	154	1,20	Price on enquiry
49057308	8	5,3	3,75	18	85	40	196	2,15	
49057310	10	8,0	6,00	22	115	50	250	3,90	
49057313	13	14,0	10,00	26	140	65	318	7,30	
49057316	16	21,2	15,00	32	150	70	367	13,00	
49057318	18	26,5	19,00	36	170	75	410	19,40	
49057322	22	40,0	28,00	40	170	80	444	28,40	

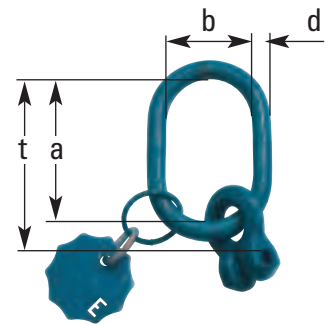
Special suspension head with coupler link and shackle SAVKE 3/4 for 3/4-leg chain slings for additional installation of shortening claws



Item no.	Load capacity		d mm	a mm	b mm	t mm	Weight approx. kg	Price each
	β 0°-45°	β 45°-60°						
4905 5419	26,5	19	45	340	180	746	54,40	o.e.
4905 5423	40,0	28	50	350	190	804	79,00	o.e.

Special master links Grade 100 Non-confusable system

DoComfort



**Special master links
for 1-leg chains**

Special master links for 1-leg chain suspensions

for simple crane hooks up to 8 t

Item no.	Nominal size	Carrying cap. in t	d mm	a mm	b mm	t mm	Weight approx. kg	Price each
4908 0106	6	1,4	16	180	100	210	1,00	Price on enquiry
4908 0108	8	2,5	18	180	100	221	1,40	
4908 0110	10	4,0	20	180	100	230	1,80	
4908 0113	13	6,7	22	180	100	243	2,60	

for simple crane hooks up to 16 t

Item no.	Nominal size	Carrying cap. in t	d mm	a mm	b mm	t mm	Weight approx. kg	Price each
4916 0106	6	1,4	18	260	140	344	2,30	Price on enquiry
4916 0108	8	2,5	20	260	140	301	2,10	
4916 0110	10	4,0	22	260	140	311	2,80	
4916 0113	13	6,7	26	260	140	323	4,10	
4916 0116	16	10,0	30	260	140	338	5,90	
4916 0118	18	12,5	34	260	140	349	8,10	

Special master links for 2-leg chain suspensions

for simple crane hooks up to 8 t

Item no.	Nominal size	Carrying cap. in t		d mm	a mm	b mm	t mm	Weight approx.	Price
		β 0-45°	β 45-60°						
4908 0206	6	2,00	1,4	18	180	100	264	1,70	o.e.
4908 0208	8	3,55	2,5	20	180	100	221	1,80	o.e.
4908 0210	10	5,60	4,0	22	180	100	231	2,60	o.e.

for simple crane hooks up to 16 t

Item no.	Nominal size	Carrying cap. in t		d mm	a mm	b mm	t mm	Weight approx. kg	Price each
		β 0-45°	β 45-60°						
4916 0206	6	2,00	1,4	20	260	140	360	2,90	Price on enquiry
4916 0208	8	3,55	2,5	22	260	140	301	2,80	
4916 0210	10	5,60	4,0	26	260	140	310	4,10	
4916 0213	13	9,50	6,7	30	260	140	323	5,90	
4916 0216	16	14,00	10,0	34	260	140	337	8,80	

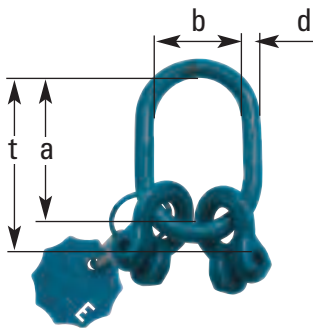
Special master links for 3/4-leg chain suspensions

for simple crane hooks up to 8 t

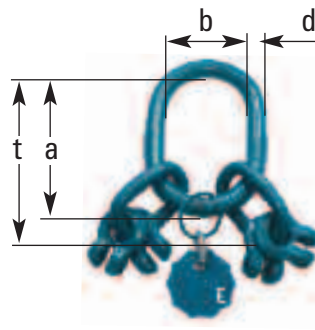
Item no.	Nominal size	Carrying cap. in t		d mm	a mm	b mm	t mm	Weight approx.	Price per
		β 0-45°	β 45-60°						
4908 0406	6	3,0	2,12	20	180	100	280	2,60	o.e.
4908 0408	8	5,3	3,75	22	180	100	291	3,40	o.e.

for simple crane hooks up to 16 t

Item no.	Nominal size	Carrying cap. in t		d mm	a mm	b mm	t mm	Weight approx. kg	Price per
		β 0-45°	β 45-60°						
4916 0406	6	3,0	2,12	22	260	140	360	3,40	Price on enquiry
4916 0408	8	5,3	3,75	26	260	140	386	5,20	
4916 0410	10	8,0	6,00	30	260	140	396	7,20	
4916 0413	13	14,0	10,00	34	260	140	438	11,40	



**Special master links
for 2-leg chains**



**Special master links
for 3/4-leg chains**

**Special master links
Grade 100
Non-confusable
system**

DoComfort

Special master links for 1-leg chain suspensions

for simple crane hooks up to 25 t

Item no.	Nominal size	Carrying cap. in t	d mm	a mm	b mm	t mm	Weight approx. kg	Price per each
4925 0106	6	1,4	20	340	180	440	3,00	Price on enquiry
4925 0108	8	2,5	22	340	180	451	3,65	
4925 0110	10	4,0	24	340	180	390	3,90	
4925 0113	13	6,7	28	340	180	403	5,80	
4925 0116	16	10,0	32	340	180	418	7,70	
4925 0118	18	12,5	38	340	180	429	11,60	
4925 0122	22	19,0	40	340	180	444	15,30	

for simple crane hooks up to 50 t

Item no.	Nominal size	Carrying cap. in t	d mm	a mm	b mm	t mm	Weight approx. kg	Price each
4905 6106	6	1,4	20	430	220	530	3,60	Price on enquiry
4905 6108	8	2,5	24	430	220	541	4,90	
4905 6110	10	4,0	26	430	220	481	4,50	
4905 6113	13	6,7	30	430	220	493	7,50	
4905 6116	16	10,0	34	430	220	508	10,30	
4905 6118	18	12,5	40	430	220	519	14,40	
4905 6122	22	19,0	45	430	220	534	19,70	

Special master links for 2-leg chain suspensions

for simple crane hooks up to 25 t

Item no.	Nominal size	Carrying cap. in t		d mm	a mm	b mm	t mm	Weight approx. kg	Price per
		β 0-45°	β 45-60°						
4925 0206	6	2,00	1,4	22	340	180	440	3,90	Price on enquiry
4925 0208	8	3,55	2,5	24	340	180	451	4,60	
4925 0210	10	5,60	4,0	28	340	180	476	6,90	
4925 0213	13	9,50	6,7	32	340	180	403	7,80	
4925 0216	16	14,00	10,0	38	340	180	418	12,10	
4925 0218	18	18,00	12,5	40	340	180	429	14,50	

for simple crane hooks up to 50 t

Item no.	Nominal size	Carrying cap. in t		d mm	a mm	b mm	t mm	Weight approx. kg	Price per
		β 0-45°	β 45-60°						
4905 6206	6	2,00	1,4	24	430	220	530	5,30	Price on enquiry
4905 6208	8	3,55	2,5	26	430	220	556	6,70	
4905 6210	10	5,60	4,0	30	430	220	566	8,80	
4905 6213	13	9,50	6,7	34	430	220	493	10,30	
4905 6216	16	14,00	10,0	40	430	220	508	15,00	
4905 6218	18	18,00	12,5	42	430	220	519	18,10	
4905 6222	22	26,50	19,0	48	430	220	534	25,40	

Special master links for 3/4-leg chain suspensions

for simple crane hooks up to 25 t

Item no.	Nominal size	Carrying cap. in t		d mm	a mm	b mm	t mm	Weight approx. kg	Price each
		β 0-45°	β 45-60°						
4925 0406	6	3,0	2,12	24	340	180	440	4,70	Price on enquiry
4925 0408	8	5,3	3,75	28	340	180	466	8,25	
4925 0410	10	8,0	6,00	32	340	180	476	8,90	
4925 0413	13	14,0	10,00	38	340	180	518	14,20	
4925 0416	16	21,2	15,00	42	340	180	558	19,80	

for simple crane hooks up to 50 t

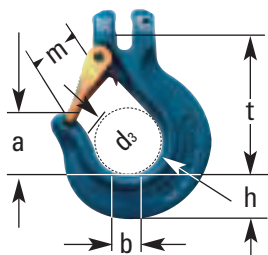
Item no.	Nominal size	Carrying cap. in t		d mm	a mm	b mm	t mm	Weight approx. kg	Price each
		β 0-45°	β 45-60°						
4905 6306	6	3,0	2,12	26	430	220	530	6,20	Price on enquiry
4905 6308	8	5,3	3,75	30	430	220	556	8,70	
4905 6310	10	8,0	6,00	34	430	220	596	12,50	
4905 6313	13	14,0	10,00	40	430	220	633	18,80	
4905 6316	16	21,2	15,00	42	430	220	648	23,50	
4905 6318	18	26,5	19,00	48	430	220	669	33,20	
4905 6322	22	40,0	28,00	54	430	220	704	46,00	

Accessories in Grade 100 Non-confusable system

DoComfort

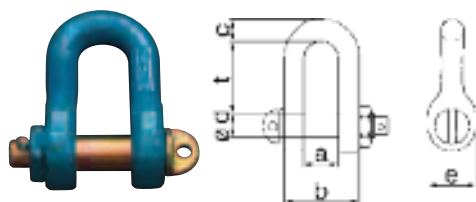


GH clevis hook with massive safety latch (Non-confusable system)



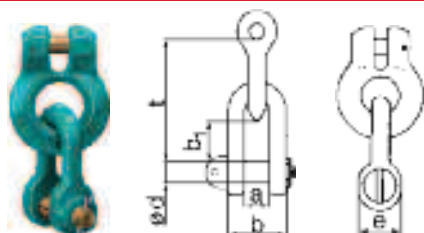
Item no.	Nom. size	Carrying cap. in t	a mm	b mm	d ₃ mm	h mm	m mm	t mm	Weight approx. kg	Price each
4907 6106	6	1,4	32	16	34	21	22	67	0,34	Price on enquiry
4907 6108	8	2,5	44	20	48	26	30	93	0,7	
4907 6110	10	4,0	52	26	56	35	37	112	1,58	
4907 6113	13	6,7	66	32	70	46	47	140	2,9	
4907 6116	16	10,0	62	37	74	49	51	152	4,7	
4907 6118	18	12,5	70	43	72	56	54	172	6,7	
4907 6122	22	19,0	95	48	92	69	68	210	10,9	Price on enquiry

VS connecting shackle



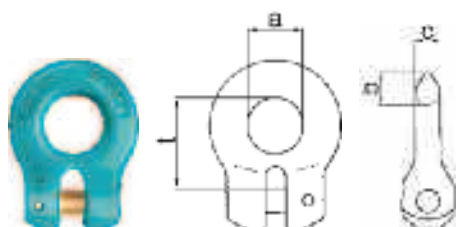
Item no.	Nominal size	Carrying cap. in t	a mm	b mm	c mm	d mm	e mm	t mm	Weight approx. kg	Price each
4902 0010	10	4,0	23	49	15	16	31	49	0,37	Price on enquiry
4902 0013	13	6,7	27	61	19	20	37	61	0,78	
4902 0016	16	10,0	34	76	24	24	47	73	1,44	
4902 0018	18	12,5	40	88	27	27	56	84	2,2	
4902 0022	22	19,0	48	108	33	36	72	112	4,75	

GVS coupler link with shackle (Non-confusable system)



Item no.	Nominal size	Carrying cap. in t	a mm	b mm	b1 mm	d mm	e mm	t mm	Weight approx. kg	Price each
4902 0310	10	4,0	23	49	30	16	31	100	0,77	Price on enquiry
4902 0313	13	6,7	27	61	40	20	37	124	1,55	
4902 0316	16	10,0	34	76	43	24	47	151	3,04	
4902 0318	18	12,5	40	88	58	27	56	173	4,5	

GV coupler link with shackle Grade 100



Item no.	Nominal size	Carrying cap. in t	a mm	b mm	c mm	t mm	Weight approx. kg	Price each
4905 3406	6	1,4	17	12	08	30	0,1	Price on enquiry
4905 3408	8	2,5	23	16	11	41	0,2	
4905 3410	10	4,0	29	19	14	51	0,4	
4905 3413	13	6,7	36	24	18	63	0,8	
4905 3416	16	10,0	46	30	23	78	1,6	
4905 3418	18	12,5	52	34	26	89	2,3	
4905 3422	22	19,0	58	37	29	104	3,6	



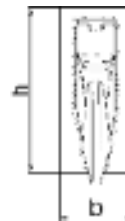
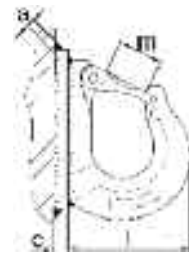
Accessories in Grade 100 Non-confusable system

DoComfort

AHK* weld-on hook



Item no.	Nominal size	Carrying cap. in t	a	b mm	c mm	h mm	l mm	m mm	Weight mm	Price each approx. kg
4957 0015	6	1,4	5	40	10	90	66	22	0,61	Price on enquiry
4957 0026	8	2,5	5	50	10	115	85	29	1,2	
4957 0041	10	4,0	8	60	15	140	110	36	2,27	
4957 0068	13	6,7	8	70	15	175	135	45	3,9	
4957 0101	16	10,0	8	80	15	210	140	50	5,65	

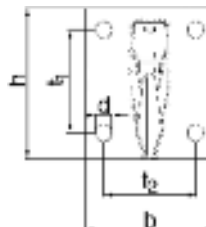
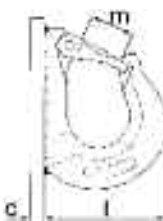


* Please observe welding directives or request additional info

AHKG screw-on hook



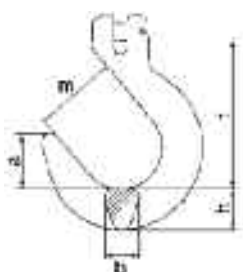
Item no.	Nominal size	Tragf.- cap. in t	b mm	c mm	d mm	h mm	l mm	m mm	t1 mm	t2 mm	s mm	Gew. approx. kg	Price each
4957 0014	6	1,4	100	10	13	100	66	22	60	70	M 12	1,1	Price on enquiry
4957 0025	8	2,5	110	10	13	135	85	29	75	80	M 12	1,76	
4957 0040	10	4,0	130	12	17	155	110	36	100	95	M 16	3,2	
4957 0067	13	6,7	160	15	22	185	135	45	120	110	M 20	5,8	
4957 0100	16	10,0	180	15	26	220	140	50	150	120	M 24	8,0	



Delivery without screws.

Please note:
Screws at least in quality 8.8,
tear-proof as per EN 24014
(formerly DIN 931).

WHG foundry hook (Non-confusable system)



Item no.	Nominal size	Carrying cap. in t	a mm	b mm	h mm	m mm	t mm	Weight approx. kg	Price each
4905 4613	13	6,7	60	38	44	90	162	3,3	Price on enquiry
4905 4616	16	10,0	67	47	51	102	190	5,6	
4905 4618	18	12,5	77	53	54	114	218	8,0	
4905 4622	22	19,0	90	64	65	124	237	11,9	

Accessories Grade 100 Shortening clutch

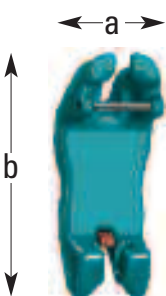
DoComfort



VHQ parallel hook with clevis hook and lock
Carrying capacity 4 t, Nominal size 10,
Item no. 4906 0010, Price on enquiry



VKS-V

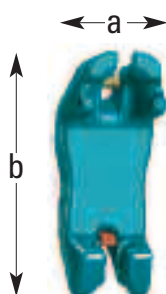


DoComfort VKS-V shortening clutch with lock, new type, Grade 100

Item no.	Nominal size	Carrying cap. in t	a mm	b mm	Weight approx. kg	Price each
4905 1706	6	1,4	46	121	0,78	Price on enquiry
4905 1708	8	2,5	54	110	0,85	
4905 1710	10	4,0	66	139	1,65	
4905 1713	13	6,7	82	177	2,90	
4905 1716	16	10,0	103	222	5,10	



VKS-B

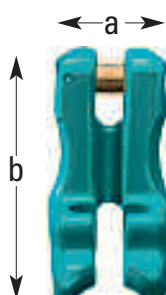


DoComfort VKS-B shortening clutch with lock, Grade 100, new installation options on the suspension head and as end fitting

Item no.	Nominal size	Carrying cap. in t	a mm	b mm	Weight approx. kg	Price each
4905 1906	6	1,4	46	121	0,78	Price on enquiry
4905 1908	8	2,5	54	110	0,85	
4905 1910	10	4,0	66	139	1,65	
4905 1913	13	6,7	82	177	3,55	
4905 1916	16	10,0	100	220	5,75	



VKS-B



VKE shortening clutch (Non-confusable system), Grade 100

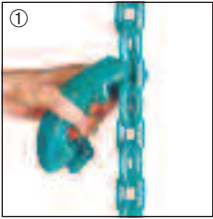
Item no.	Nominal size	Carrying cap. in t	a mm	b mm	Weight approx. kg	Price each
4905 1818 * VKE-S	18	12,5	101	134	4,1	o.e.
4905 1822 * VKE-S	22	19,0	126	160	7,3	o.e.

* with lock

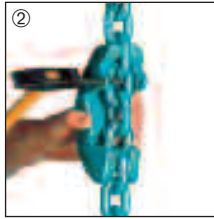
Accessories Grade 100 Shortening clutch

DoComfort

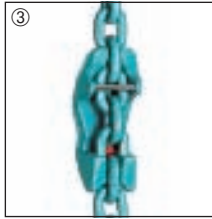
Application and safety notes:



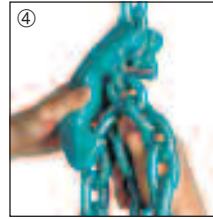
① Latch the shortening clutch with the top groove of the claw in the chain.



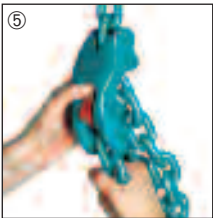
② Hook the lower chain element into the chain bag. Drive the supplied tension pen through the borings. It must be flush on both sides with the borings.



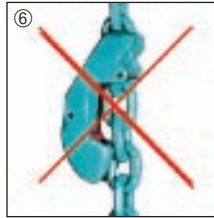
③ The safety snap now prevents unintentional unhooking of the chain from the shortening claw.



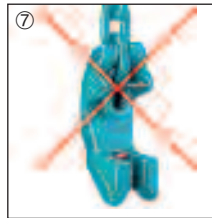
④ Insert the respective chain element into the bag of the shortening claw to shorten to the desired length.



⑤ To unhook the chain, press the safety lock and pull the chain out of the chain bag.



⑥ The chain must always be hooked into the lower chain bag.



⑦ This type is not allowed



⑧ Never put pressure on the top end of the bag. The flow of force would not run vertically, the bag would bend open, and the chain element would bend under strain.

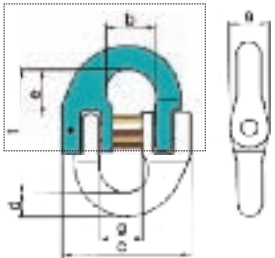


Only shortening clutches VKS-V, VKS-B and VKE-S with safety respective lock meet the new BG recommendations.



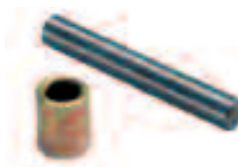
VKS-B

TBSE coupling link



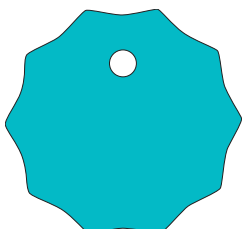
Item no.	Carrying cap. in t	a mm	b mm	c mm	d mm	e mm	g mm	t mm	Weight approx. kg	Price each
4905 1013	6,7	24	31	85	17	33	28	83	0,7	o.e.

Bolt and clamp ferrule for coupling element TBSE



Item no.	Nom. size	Price each
4905 9412	13	o.e.

Labelling tag for DoComfort chain slings



Nom. size	1-leg	2-leg	3/4-leg	Price each
6	4940 0120	4940 0130	4940 0140	Price on enquiry
8	4940 0121	4940 0131	4940 0141	
10	4940 0122	4940 0132	4940 0142	
13	4940 0123	4940 0133	4940 0143	
16	4940 0124	4940 0134	4940 0144	
18	4940 0125	4940 0135	4940 0145	
22	4940 0126	4940 0136	4940 0146	

Centre of gravity compensators Grade 100 DIN EN 1677

DoComfort



For multi-leg chain slings, the centre of gravity compensator results in an even strain of the individual strands and vertical lifting of the load.

With a compensator, minor imprecisions occurring in practical use can be balanced in the arrangement of the lifting points and the permissible length tolerances of the chain strands.

The Load capacity reduction prescribed per norm for asymmetrical load distribution to only 2 carrying strands is balanced via the compensator.

3 strands can be assumed to be load-carrying. The Load capacity therefore increases.

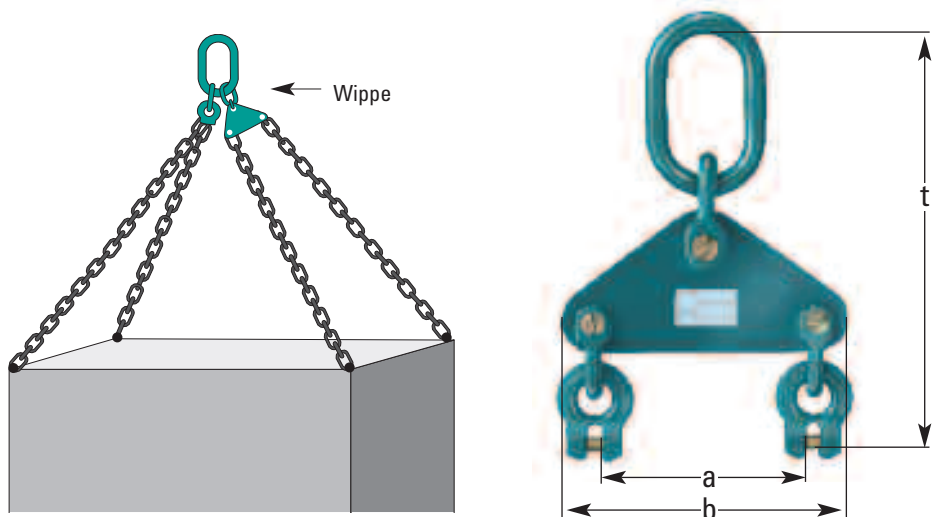


DoComfort AWI 1 compensator with suspension element suitable for 2-leg chains

Item no.	Nominal size	Load capacity			Dimensions in mm			Dim. parts in mm	Weight approx. kg	Price each
		β 0 - 45° *	β 45 - 60° *	β 0 - 45° **	a	b	t			
4908 1910	10	5,6	4,0	11,2	185	255	396	22x160x90	7,25	Price on enquiry
4908 1913	13	9,5	6,7	19,0	245	325	477	26x180x100	14,90	
4908 1916	16	14,0	10,0	28,0	300	390	560	32x200x110	25,20	
4908 1918	18	18,0	12,5	36,0	320	420	675	36x260x140	33,30	

* Total Load capacity for a 2-leg sling chain.

** Total Load capacity applies for two 2-leg sling chains which are inserted in To this end, a sling chain must be equipped with a compensator.



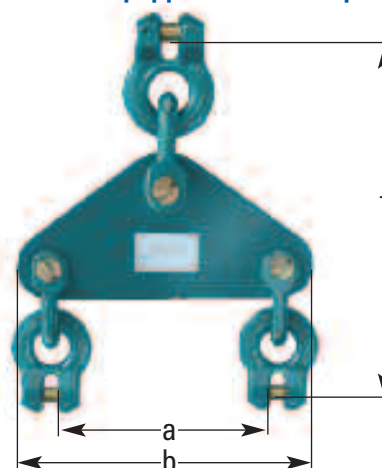
DoComfort AWI 2 compensator with coupler link connection, for multi-leg chains

Item no.	Nominal size	Load capacity			Dimensions in mm			Weight approx. kg	Price each
		β 0 - 45° *	β 45 - 60° *	β 0 - 45° **	a	b	t		
4908 2010	10	5,6	4,0	11,2	185	255	299	6,5	Price on enquiry
4908 2013	13	9,5	6,7	19,0	245	325	375	14,1	
4908 2016	16	14,0	10,0	28,0	300	390	449	23,5	

* Total Load capacity for a 2-leg sling chain.

** Total Load capacity applies for two 2-leg sling chains which are inserted in a crane hook only.

To this end, a sling chain must be equipped with a compensator.

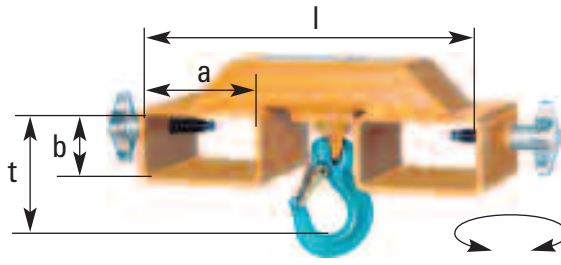




Clevis hook Forklift hook Grade 100

DoComfort

Forklift hook, fitting shoe for forklift truck, double

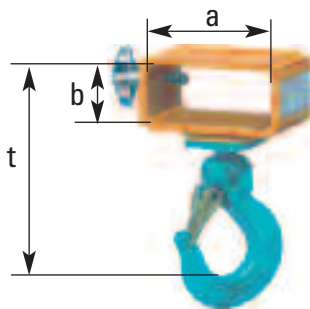


Item no.	Carrying cap. in t	Dimensions in mm				Weight approx. kg	Price each
		a	b	l	t		
4999 9225	2,5	126	64	365	125	11,4	o.e.
4999 9240	4,0	143	66	400	145	14,1	o.e.
4999 9267	6,7	160	80	400	200	20,1	o.e.

360° hooks rotation with full load capacity!

360° rotation with full load capacity is not permitted!

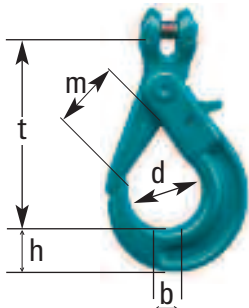
Forklift hook, fitting shoe for forklift truck, single



Item no.	Carrying cap. in t	Dimensions in mm			Weight approx. kg	Price each
		a	b	t		
4999 9125	2,5	126	64	180	5,0	o.e.
4999 9140	4,0	143	66	230	7,5	o.e.
4999 9167	6,7	160	80	280	10,5	o.e.

360° hooks rotation with full load capacity!

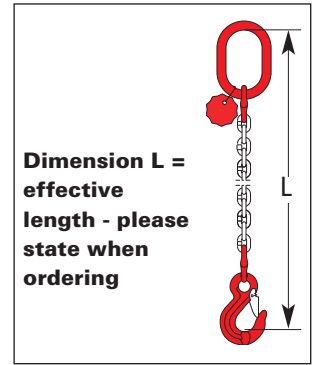
Safety clevis hook AHG self-locking, (non-confusable system)



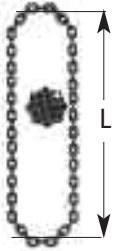
Item no.	Nominal size	Carrying cap. in t	Dimensions in mm					Weight approx. kg	Price each
			b	d	m	h	t		
4908 0308	8	2,5	45	20	38	28	111	0,75	o.e.
4908 0310	10	4,0	55	28	46	34	142	1,50	o.e.
4908 0313	13	6,7	68	36	56	45	175	3,30	o.e.

Choker chains
Hook chains
Endless chains
Sliding slings
Grade 80

Dolett



Choker chain, welded



Item no.	Nom. chain size mm	Carrying cap. t		Price 1 meter	Price add. meter
		direct	laced		
1912 0601	6	4,48	1,8	Price on enquiry	Price on enquiry
1912 0701	7	5,0	2,5		
1912 0801	8	6,4	3,15		
1912 1001	10	10,0	5,0		
1912 1301	13	17,0	8,5		
1912 1601	16	25,0	12,5		
1912 2001	20	40,0	20,0		

Chain, clevis hook on either side with safety

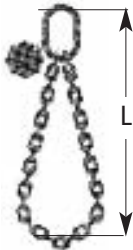


Item no.	Nom. chain size mm	Carrying capacity		Price 1 Meter	Price add. meter
		β 0°	β 45-60°		
1949 0601	6	1,12		Price on enquiry	Price on enquiry
1949 0701	7	1,50			
1949 0801	8	2,00			
1949 1001	10	3,15			
1949 1301	13	5,30			
1949 1601	16	8,00			



For hanging gear with chains in a suspension hook, the load does not hang stably; it can slide. For long goods use the DoLast traverses.

Endless chain, single



Item no.	Nom. chain size mm	Carrying cap. t		Price 1 meter	Price add. meter
		β 0-45°	β 45-60°		
1908 0702	7	1,70	1,25	Price on enquiry	Price on enquiry
1908 0802	8	2,24	1,60		
1908 1002	10	3,35	2,50		
1908 1302	13	5,83	4,25		
1908 1602	16	9,00	6,30		
1908 2002	20	14,00	17,00		

Endless chain, double



Item no.	Nom. chain size mm	Carrying capacity		Price 1 Meter	Price add. meter
		β 0-45°	β 45-60°		
1908 0704	7	2,65	1,80	Price on enquiry	Price on enquiry
1908 0804	8	3,35	2,36		
1908 1004	10	5,30	3,75		
1908 1304	13	9,00	6,30		
1908 1604	16	13,20	9,50		
1908 2004	20	21,20	15,00		

Endless chain, single, with shortening hook



Item no.	Nom. chain size mm	Carrying cap. t		Price 1 meter	Price add. meter
		β 0-45°	β 45-60°		
1909 0702	7	1,70	1,25	Price on enquiry	Price on enquiry
1909 0802	8	2,24	1,60		
1909 1002	10	3,35	2,50		
1909 1302	13	5,83	4,25		
1909 1602	16	9,00	6,30		
1909 2002	20	14,00	10,00		

Endless chain, double, with shortening hook



Item no.	Nom. chain size mm	Carrying capacity		Price 1 Meter	Price add. meter
		β 0-45°	β 45-60°		
1909 0704	7	2,65	1,80	Price on enquiry	Price on enquiry
1909 0804	8	3,35	2,36		
1909 1004	10	5,30	3,75		
1909 1304	13	9,00	6,30		
1909 1604	16	13,20	9,50		
1909 2004	20	21,20	15,00		

Sliding sling, single



Item no.	Nom. chain size mm	Carrying cap. t		Price 1 meter	Price add. meter
		direct	laced		
1907 0701	7	1,20		Price on enquiry	Price on enquiry
1907 0801	8	1,60			
1907 1001	10	2,52			
1907 1301	13	4,25			
1907 1601	16	6,30			

Sliding sling, double



Item no.	Nom. chain size mm	Carrying capacity		Price 1 Meter	Price add. meter
		β 0-45°	β 45-60°		
1907 0702	7	1,70	1,20	Price on enquiry	Price on enquiry
1907 0802	8	2,24	1,60		
1907 1002	10	3,35	2,50		
1907 1302	13	5,60	4,25		
1907 1602	16	9,00	6,30		



Wire rope and chain combinations

Dokkett

Wire rope and chain combinations unite the respective benefits of round steel chains and wire ropes in a lifting device: the solid chain is wrapped around the load, the wire rope can be perfectly pushed under the load. This means: ideal handling and less wear and tear.

Rope/chain/rope combination

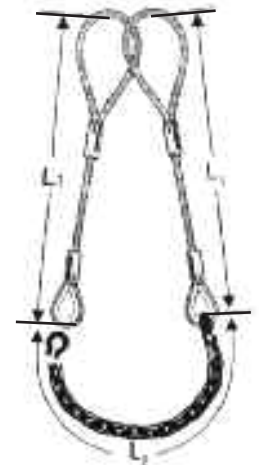
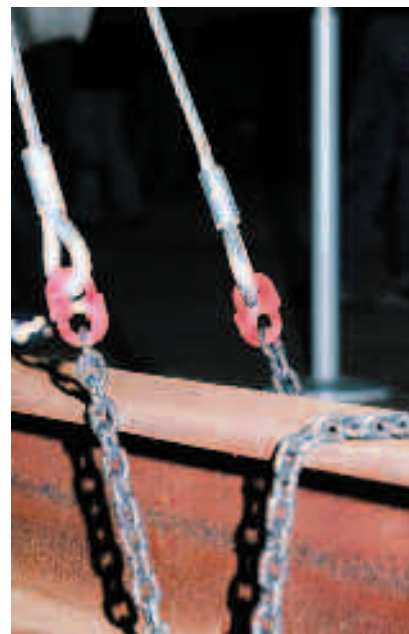
Item no.	Rope ϕ in mm	Nom. chain size in mm	Carrying cap. t (per pair) 2 x wrapped on cet	Basic price per m of rope + 1 m chain	Add. price chain	1 m rope
0292 0801	8	6	2,80	Price on enquiry	Price on enquiry	Price on enquiry
0292 1201	12	7	6,00			
0292 1401	14	8	8,00			
0292 1601	16	10	10,80			
0292 2001	20	13	16,00			
0292 2401	22	13	20,00			
0292 2601	26	16	28,00			

Please state dimensions L1 + L2 when ordering.

With wire rope and chain combinations, sharp-edged loads can be ideally lifted and transported. They are perfectly suitable for rough usage in various industrial areas. Please lift in pairs only.

This model can additionally be supplied with a self-locking swivel hook in the thimble; i.e. the hook can be hooked and unhooked from the chain connector.

Please enquire.

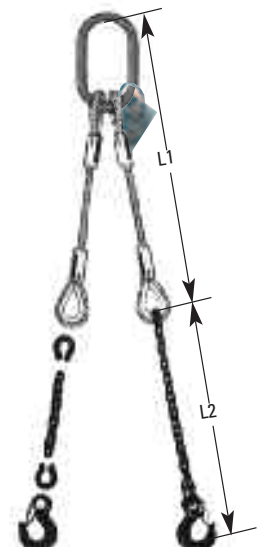


Rope/chain suspension, 2-leg with eye hooks Grade 80

Item no.	Rope ϕ in mm	Nom. chain size in mm	Eye hooks opening width mm	Carrying capacity		Basic price per m of rope + 1 m chain	Add. price chain	1 m rope
				β 0-45°	β 45-60°			
0291 0802	8	6	23	0,95	0,70	Price on enquiry	Price on enquiry	Price on enquiry
0291 1202	12	7	28	2,10	1,50			
0291 1402	14	8	28	2,80	2,00			
0291 1602	16	10	33	3,80	2,70			
0291 2002	20	13	40	5,60	4,00			
0291 2402	22	13	40	7,00	5,00			
0291 2602	26	16	47	9,80	7,00			

When ordering please state L1 + L2 dimensions.

Wire rope and chain suspensions have been tried and tested in the the hardest use environments, not only in construction. The chain is, for instance, wrapped around steel profiles and the hook hung back into the chain (lacing). Wire rope and chain suspension can also be supplied in 1, 3 and 4-leg designs. Please enquire.



Knotted chains and round steel chains

DIN 5685

Plastic chains

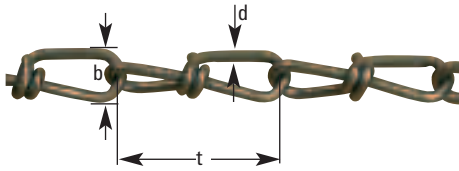
Dolett

The chains as per DIN 5685 are not tested for thickness and must therefore not be used as load carrying devices, lifting gear or bearing gear. The breaking forces stated are only calculated. Area of application is e.g. plastic chain.



The chains on page 422 and 423 must not be used as chain slings.

Knotted chains, DIN 5686, galvanised, standard length 30 m

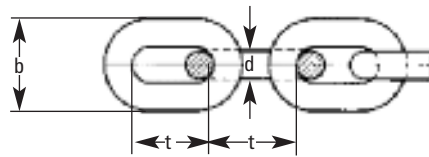


Item no.	Nom. size	Nom. size d mm	t mm	b mm	Weight kg/100 m	Price per 100 m
3903 1001	K10	1,0	14	4,5	2,0	
3903 1201	K12	1,2	17	5,5	3,0	
3903 1401	K14	1,4	20	6,5	4,0	
3903 1601	K16	1,6	23	7,0	5,0	
3903 1801	K20	1,8	25	8,0	7,0	
3903 2001	K22	2,0	28	9,0	8,0	
3903 2201	K25	2,2	31	10,0	10,0	
3903 2501	K27	2,5	35	11,0	14,0	
3903 2801	K30	2,8	39	12,5	16,0	
3903 3101	K32	3,1	41	14,0	20,0	
3903 3401	K35	3,4	44	15,0	25,0	
3903 3801	K40	3,8	46	17,0	32,0	
3903 4201	K45	4,2	50	19,0	40,0	
3903 4601	K50	4,6	55	20,5	46,0	
3903 5001	K55	5,0	60	22,5	53,0	
3903 6001	K60	5,5	66	24,5	65,0	

Price on enquiry

Knotted chains are also available in unfinished (end number of the Item no. "0") or in stainless steel (end number of the art. no "4"). Please request info on prices.

Round steel chains, yard goods, galvanised, DIN 5685 without quality requirements, standard length 30 m



Item no. galvanized	Nom. thickness d in mm	t mm	b mm	Breaking force daN	Weight in kg/100m	Previous standard name of element	Price per 100 m
3900 0202	2,0	12	8	125	7,0	A short	
3900 0203	2,0	22	8	125	6,0	C long	
3900 0252	2,5	14	10	200	11,0	A short	
3900 0253	2,5	24	10	200	10,0	C long	
3900 0302	3,0	16	12	280	16,5	A short	
3900 0303	3,0	26	12	280	15,0	C long	
3900 0352	3,5	18	14	385	22,5	A short	
3900 0353	3,5	28	14	385	20,0	C long	
3900 0402	4,0	19	16	500	30,0	A short	
3900 0403	4,0	32	16	500	27,0	C long	
3900 0452	4,5	20	18	630	39,5	Ashort	
3900 0453	4,5	34	18	630	35,0	C long	
3900 0502	5,0	21	20	775	50,0	A short	
3900 0503	5,0	35	20	775	43,0	C long	
3900 0602	6,0	24	24	1150	73,0	Ashort	
3900 0603	6,0	42	24	1150	63,0	C long	
3900 0702	7,0	28	28	1500	100,0	A short	
3900 0703	7,0	49	28	1500	86,0	C long	
3900 0802	8,0	32	32	2000	130,0	A short	
3900 0803	8,0	52	32	2000	110,0	C long	
3900 1002	10,0	40	40	3100	205,0	A short	
3900 1003	10,0	65	40	3100	175,0	C long	
3900 1302	13,0	52	52	5300	345,0	A short	
3900 1303	13,0	82	52	5300	295,0	C long	

Price on enquiry

Plastic chains, long elements

Nominal size:	6 mm
Interior element length:	appr. 40mm
Exterior element length:	appr. 22 mm
Colour:	two-coloured red/white changing all 8 elements
Standard length:	30 m
Weight per 100 m:	approx. 5 kg
Item no.:	3900 7116
Price per 100 m:	o.e.

Emergency element made from plastic, in white and red



Item no.:	09088160
Price per 100 pieces:	o.e.

Plastic hook, white or red



Item no.:	0908 8260
Price per 100 pieces:	o.e.

Plastic chain quick link connector white or red



Item no.:	0908 8460
Price each:	o.e.

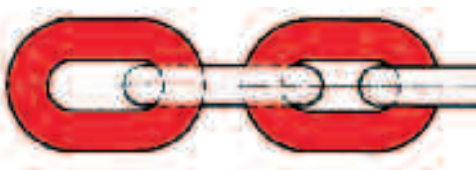
Link element for plastic chain (steel)



Item no.:	0908 8155
5 mm	
Price /100 u.:	o.e.

Item no.:	0908 8156
5 mm	
Price /100 u.:	o.e.

Plastic chains made from steel, galvanised, plastic coating, long link



Other colors on request!

Every 0.50 m alternating red and white. Standard length 50 m. Every 50 cm connected with an emergency element. Every available chain can be changed with these elements.

Nominal size:	5 mm
Internal element lengths approx.:	36 mm
Exterior element width:	20 mm
Weight per 100 m:	approx. 44 kg
Item no.:	3900 0505
Price per 100 m:	
Nominal size:	6 mm
Internal element length approx.:	42 mm
Exterior element width:	24 mm
Weight per 100 m:	approx. 64 kg
Item no.:	3900 0605
Price per 100 m:	o.e.

Round steel chains Stainless steel

Dokkett



Chains according to DIN 766 and 763 can also be supplied in blank and galvanized design. Bigger dimensions are available on request.

DIN 766 short link chain (issue 7/54), material no. 1.4401

Item no. 1.4401*	Item no. 1.4571*	Nominal size d mm	t mm	b mm	Carrying cap. approx. t	Breaking force kN	Weight kg/m	Price per 100 m
3905 5020	3907 5020	2	12,0	8	-	1,25	0,07	Price on enquiry
3905 5030	3907 5030	3	16,0	11	-	2,80	0,16	
3905 5040	3907 5040	4	16,0	14	0,150	6,00	0,32	
3905 5050	3907 5050	5	18,5	17	0,250	10,00	0,50	
3905 5060	3907 5060	6	18,5	20	0,350	14,00	0,75	
3905 5070	3907 5070	7	22,0	23	0,450	18,00	1,00	
3905 5080	3907 5080	8	24,0	26	0,630	25,00	1,35	
3905 5100	3907 5100	10	28,0	34	1,000	40,00	2,25	

*Chains with 4 mm nominal size (material 1.4571) also available. 2+3 mm as per DIN 5685-A

DIN 763 long link chain (issue 9/76), material no. 1.4401

Item no. 1.4401*	Item no. 1.4571*	Nominal size d mm	t mm	b mm	Carrying cap. approx. t	Breaking force kN	Weight kg/m	Price per 100 m
3906 5020	3907 3020	2	22	8	-	1,25	0,06	Price on enquiry
3906 5030	3907 3030	3	26	12	-	2,80	0,15	
3906 5040	3907 3040	4	32	16	0,100	6,00	0,27	
3906 5050	3907 3050	5	35	20	0,160	10,00	0,43	
3906 5060	3907 3060	6	42	24	0,225	14,00	0,63	
3906 5070	3907 3070	7	49	28	0,300	18,00	0,86	
3906 5080	3907 3080	8	52	32	0,400	25,00	1,10	
3906 5100	3907 3100	10	65	40	0,625	40,00	1,75	

*2+3 mm as per DIN 5685-C. Chains with 4 mm nominal size (material 1.4571) also available. Please enquire.

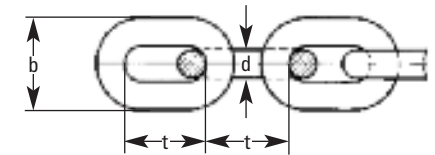
Resistance chart for stainless round steel chains

Aggressive agent	Concentration	Temperature °C	1.4301 V2 AS*	1.4541 V2 AE*	1.4401 V4 AS*	1.4571 V4 AE*
Seawater		boiling	1	1	0	0
Nitric acid HNO3	1-90%	-	0	0	0	0
Salt acid HCl	50-90%	boiling	0	0	0	0
	2-3		2-3	2-3	2-3	2-3
Sulphuric acid H2SO4	0.2-0.5% dto.	-	1	1	1	1
	50°		2	2	2	2
Fluoric	1-2%	-	2-3	2-3	2-3	2-3
	dto.	50°	2-3	2-3	2-3	2-3
Hydroxide (alkaline)	1-50%	-	1	1	1	1
	70°		1-2	1-2	1-2	1-2
Sulphates	dto.	boiling	2-3	2-3	2-3	2-3
	10%	-	1-2	1-2	1-2	1-2
Chlorides	40%	-	2-3	2-3	2-3	2-3
	20%	-	0	0	0	0
Fatty acid, C18H34O2	dto.	boiling	1	1	1	1
	approx. 400°		0	0	0	0
Acetic acid, C2H4O2	-	-	1	1	1	1
	1500		0	0	0	0
Gallic acid, C6H2(OH)3CO2H	-	-	0	0	0	0
	-	-	0	0	0	0

* 0 = fully resistant, 1 = virtually resistant, 2 = hardly resistant, 3 = theoretically non-resistant. These details are indicative values. Please request detailed information.

Indicative analysis: in %

Material no.	DIN EN name	C	Si	Mn	Cr	Mo	Ni	Other
1.4301	x5CrNi18-10	>= 0,07	>= 1,00	>= 2,00	18,0	-	10,0	-
1.4541	x6CrNiTi18-10	>= 0,08	>= 1,00	>= 2,00	18,0	-	10,0	Ti
1.4401	x5CrNiMo17-12-2	>= 0,07	>= 1,00	>= 2,00	17,5	2,25	12,0	-
1.4571	x6CrNiMoTi17-12-2	>= 0,08	>= 1,00	>= 2,00	17,5	2,25	11,5	Ti



These stainless round steel chains are corrosion-resistant and have high resistance rates which make them suitable for specific areas of application, in particular in

- Food processing plants
- Seawater
- Salty solutions
- Wastewater
- Bases
- Acids
- Medical and veterinary areas of the chemical industry

Standard lengths are 30 and 50 m

Chain connector + link element, stainless steel and galvanized design available



Prices on enquiry



Grade 50 chain slings Stainless steel

Dokkett



Chain slings grade 50 are made from stainless steel material 1.4404.

Stainless steel chain slings are used in the foods industry, the chemical industry and in wet processing plants.

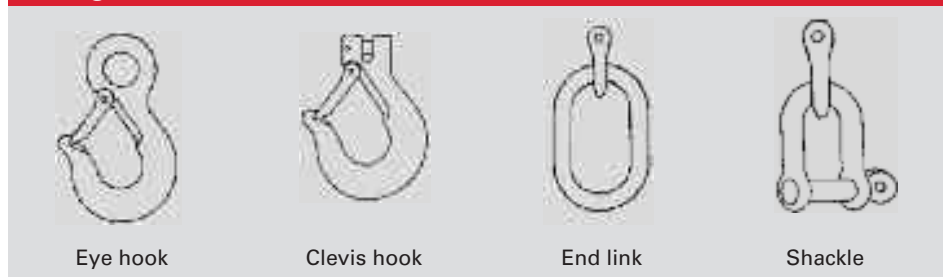
Carrying capacities of 750 kg to 10,000 kg are available in welded designs. The chains meet all requirements of DIN 685.

Chain slings

Nominal size in mm	1-leg Load capacity in t	2-leg Load capacity in t		3-leg Load capacity in t		4-leg Load capacity in t	
		β 0°-45°	β 45°-60°	β 0°-45°	β 45°-60°	β 0°-45°	β 45°-60°
06	0,75	1,00	0,75	1,60	1,12	1,60	1,12
08	1,25	1,70	1,25	2,65	1,80	2,65	1,80
10	2,00	2,80	2,00	4,25	3,00	4,25	3,00
13	3,20	4,50	3,20	6,70	4,75	6,70	4,75
16	5,00	7,10	5,00	10,00	7,50	10,00	7,50
18	6,30	9,00	6,30	-	-	-	-

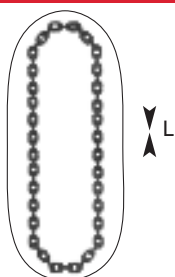
Heat resistance: -40° C up to +250° C (100% capacity), from +250° C up to 350° C (75% capacity), from 350° C up to 450° C (50% capacity)

Fittings



Chain slings are available in 1, 2, 3 and 4-legs designs and with the illustrated end fittings (with and without shortening option). Price on enquiry.

Stainless steel chain, grade 50, endless, welded



length = circumference length (L)	chain-nominal size mm	Carrying capacity in kg/ tilt angle β			Price/ meter
		kg $\beta = 0^\circ$	kg $\beta \leq 45^\circ$	kg $\beta \leq 60^\circ$	
Length produced according to your need	6 7 8 10 13 16	1500 2000 2500 4000 6400 10000	825 1100 1375 2200 3520 5500	600 800 1000 1600 2560 4000	Price on enquiry



Chain sling with shortener

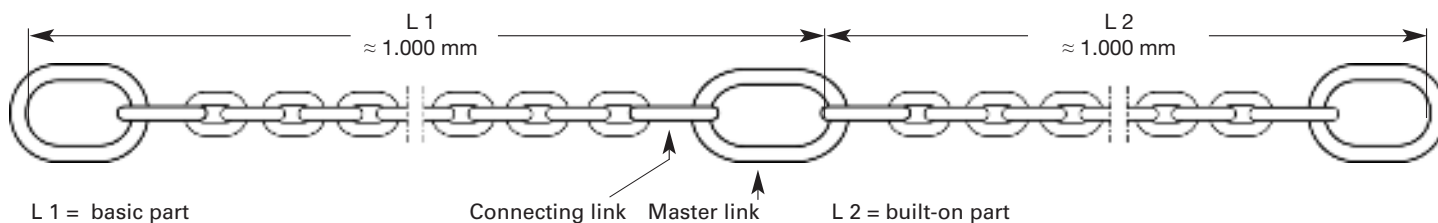


End fittings like eye hooks, clevis hooks, end link and shackles are available. We can additionally supply chains with shortening element.

For aggressive agents, such as chemical baths, bases or other acid baths, only welded chain slings made of stainless steel may be used.

Pump chains G5 welded and tested, Grade 50

Item no.	Carrying cap. in t	Chain in mm	Suspension elements in mm	Transfer elements in mm	L1 price	L2 price
3960 9904	0,3	4 x 16	8 x 36 x 17	5 x 22 x 9	Price on enquiry	Price on enquiry
3960 9905	0,45	5 x 15	10 x 65 x 20	6 x 26 x 13		
3960 9906	0,75	6 x 18	13 x 110 x 60	8 x 35 x 19		
3960 9908	1,25	8 x 24	16 x 110 x 60	10 x 40 x 20		
3960 9910	2,00	10 x 30	18 x 135 x 75	13 x 54 x 25		
3960 9913	3,20	13 x 39	22 x 160 x 90	16 x 70 x 34		
3960 9916	5,0	16 x 48	26 x 180 x 100	22 x 115 x 50		
3960 9918	6,3	18 x 54	32 x 200 x 110	26 x 140 x 65		



Lifting ring NSAG weldable, stainless steel 1.4404, Grade 50



Item no.	Carrying capacity t	Abmessungen			Weight approx. kg	Price meter
		A	B	ø D		
0951 0001	0,5	33	30	10	0,31	Price on enquiry
0951 0002	1,0	44	40	13	0,33	
0951 0003	2,0	52	55	18	0,87	



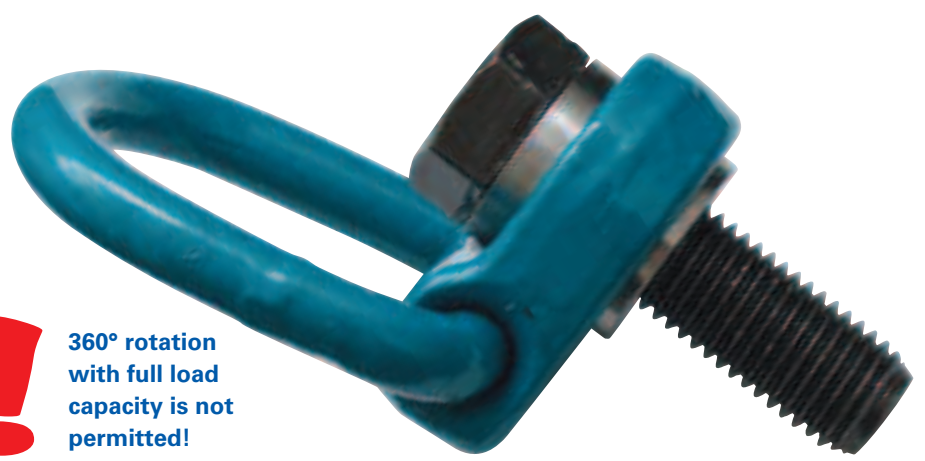
Eye bolt Sling swivel

Grade 100

DoComfort



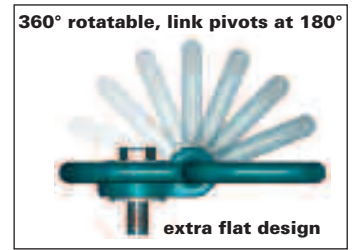
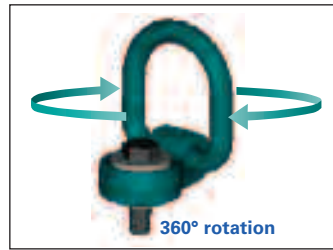
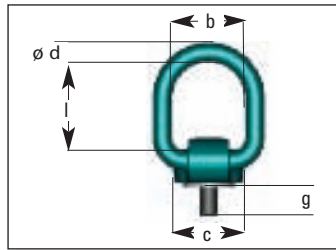
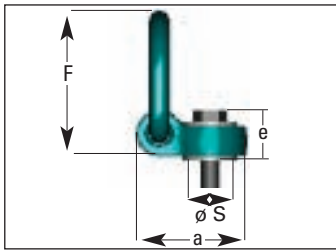
**360° rotation
with full load
capacity is not
permitted!**



DoComfort Eye bolt with extra flat design, 360° rotatable, link pivots at 180°

Item no.	Carrying capacity t	Thread in mm	Torque Nm	Dimensions in mm									Weight kg	Price each
				a	b	c	d	e	f	g	l	S		
4959 0005	0,50	M 10x40	40	69	50	48	13	28	100	12	52	34	0,70	Price on enquiry
4959 0008	0,80	M 12x45	65	69	50	48	13	28	100	17	51	34	0,71	
4959 0009	0,80	M 12x65	65	69	50	48	13	28	100	40	53	34	0,71	
4959 0015	1,50	M 16x55	160	69	50	48	13	28	100	27	49	34	0,72	
4959 0025	2,50	M 20x70	250	69	50	48	13	28	100	42	46	34	0,73	
4959 0041	4,00	M 24x80	300	69	50	48	13	30	100	50	42	34	0,76	
4959 0040	4,00	M 24x80	300	104	76	72	18	39	147	41	74	58	2,60	
4959 0050	5,30	M 27x90	400	104	76	72	18	39	147	51	72	58	2,70	
4959 0060	6,00	M 30x90	500	104	76	72	18	39	147	51	70	58	2,75	
4959 0080	8,00	M 36x100	700	104	76	72	18	43	147	57	62	58	2,81	

Screw according to EN 24014 (old DIN 931) – resistance class 10.9 – crack tested



DoComfort DoComfort Sling swivel, premium Grade 100

The sling swivel is the further development of the already existing sling swivel 0950 of grade 80 and 100. The load capacity increased by 25% while the dimensions comply with the existing sling swivel of grade 100.

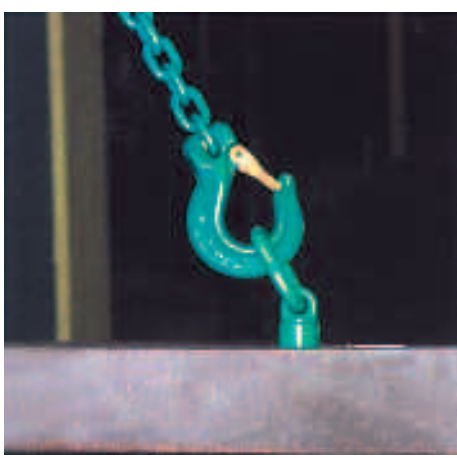
- Better rotation behaviour achieved by additional ball bearings. The result is improved rotation under full or diagonal load at 90°.
- New and clearer display of the inclination angle of 45° or 60° trough marks on the absorption element.
- New visible wear and tear display of the ball bearing, meaning that the need for disposal can be identified without measuring tools.
- Improved contact surface, with carrying force marking, galvanized cover gives corrosion protection. Seal prevents intrusion of dirt.
- Other thread sizes according to diameter and length can also be delivered as specially designed models. Possible adduction moment in Nm for DoComfort sling swivel.
- Tightening with the help of an open wrench according to DIN 895 and DIN 894 is totally sufficient without the need of an extension tool.



Ring screws DIN 580 and ring nuts DIN 582 can only be put under load vertically. For diagonal draft always select the high-strength lifting points listed on this double page!



The thread of the load must be designed in line with the load capacity and the sling swivels or eye bolts!

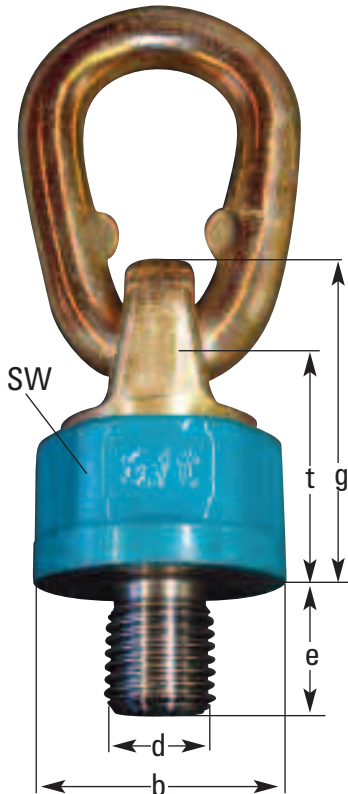


Transport ring

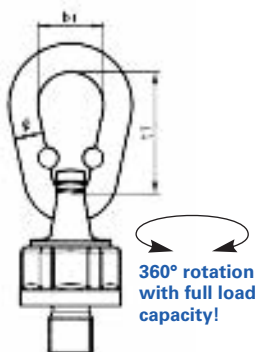
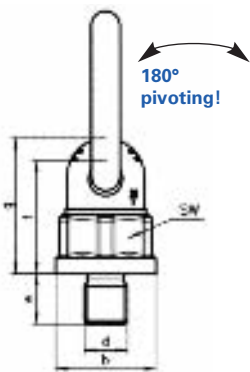
Grade 100

DoComfort

DoComfort Transport ring Premium Grade 100



Item no.	Carrying cap. in t	Thread dxe/mm	Torque Nm	Length between thread/mm	Dimensions in mm				Oval link ø x t x b mm	Weight approx.kg	Price each
					B	G	SW	T			
49560050	0,5	10 x 18	10 - 40	1,5	36,5	48	34	41	13 x 55 x 32	0,42	
49560070	0,7	12 x 18	15 - 40	1,75	36,5	48	34	41	13 x 55 x 32	0,43	
49560071	0,7	12 x 25	15 - 40	1,75	36,5	48	34	41	13 x 55 x 32	0,43	
49560100	1,0	14 x 20	30 - 40	2	36,5	48	34	41	13 x 55 x 32	0,43	
49560140	1,4	16 x 20	45 - 130	2	36,5	48	34	41	13 x 55 x 32	0,44	
49560141	1,4	16 x 30	45 - 130	2	36,5	48	34	41	13 x 55 x 32	0,45	
49560170	1,7	20 x 30	75 - 130	2,5	36,5	48	34	41	13 x 55 x 32	0,48	
49560171	1,7	24 x 30	90 - 130	3	36,5	48	34	41	13 x 55 x 32	0,50	
49560250	2,5	20 x 30	100 - 170	2,5	52	68	46	57	16 x 70 x 34	0,95	
49560251	2,5	20 x 40	100 - 170	2,5	52	68	46	57	16 x 70 x 34	0,97	
49560252	2,5	20 x 50	100 - 170	2,5	52	68	46	57	16 x 70 x 34	0,99	
49560253	2,5	20 x 70	100 - 170	2,5	52	68	46	57	16 x 70 x 34	1,05	
49560400	4,0	24 x 30	190 - 280	3	57	75	50	63	18 x 85 x 45	1,36	
49560401	4,0	24 x 45	190 - 280	3	57	75	50	63	18 x 85 x 45	1,41	
49560402	4,0	24 x 50	190 - 280	3	57	75	50	63	18 x 85 x 45	1,42	
49560403	4,0	30 x 35	190 - 280	3,5	57	75	50	63	18 x 85 x 45	1,45	
4956 0670	6,7	30 x 35	230 - 400	3,5	70	95	65	78	20 x 85 x 45	2,33	Price on enquiry
4956 0671	6,7	30 x 45	230 - 400	3,5	70	95	65	78	20 x 85 x 45	2,37	
4956 0672	6,7	30 x 50	230 - 400	3,5	70	95	65	78	20 x 85 x 45	2,40	
4956 0673	6,7	30 x 60	230 - 400	3,5	70	95	65	78	20 x 85 x 45	2,45	
4956 0800	8	30 x 35	270 - 600	3,5	81	106	75	86	23 x 115 x 60	3,59	
4956 0801	8	30 x 45	270 - 600	3,5	81	106	75	86	23 x 115 x 60	3,64	
4956 1000	10,0	36 x 50	270 - 600	4	81	106	75	86	23 x 115 x 60	3,76	
4956 1001	10,0	36 x 54	270 - 600	4	81	106	75	86	23 x 115 x 60	3,79	
4956 1250	12,5	42 x 50	270 - 700	4,5	81	106	75	86	23 x 115 x 60	3,56	
4956 1251	12,5	42 x 60	270 - 700	4,5	81	106	75	86	23 x 115 x 60	3,63	
4956 1252	12,5	42 x 63	270 - 700	4,5	81	106	75	86	23 x 115 x 60	3,68	
4956 1253	12,5	45 x 60	270 - 700	4,5	81	106	75	86	23 x 115 x 60	4,03	
4956 1255	12,5	48 x 72	270 - 700	5	81	106	75	86	23 x 115 x 60	4,23	
4956 1301	13,0	42 x 60	350 - 800	4,5	104	127	95	106	30 x 140 x 70	7,34	
4956 1501	17,0	45 x 60	350 - 800	4,5	104	127	95	106	30 x 140 x 70	7,50	
4956 1502	17,0	48 x 60	350 - 800	5	104	127	95	106	30 x 140 x 70	7,57	
4956 1503	18,0	56 x 78	350 - 900	5,5	104	127	95	106	30 x 140 x 70	8,80	
4956 2000	20,0	64 x 96	350 - 900	6	104	127	95	106	30 x 140 x 70	8,85	
4956 2001	20,0	64 x 110	350 - 900	6	104	127	95	106	30 x 140 x 70	9,20	



DoComfort Transport ring Premium Grade 100 with ball bearing.
 Permanent rotation with full load is not permitted.

Sling swivel for transport and installation

Grade 80

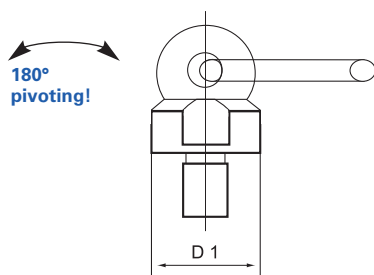
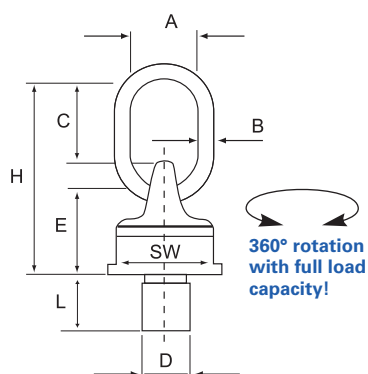
Dokkett



The thread in the load must be designed in line with the load capacity of the sling swivels or eye bolt.

Sling swivel 0950/C

for screwing in, Grade 80, compact light construction, with bearing, loadable on all sides, 360° rotation, swivel area of the element max. 180° (special sizes and thread on request)



Item no.	Carrying capacity t	Thread x Thread-length	Oval link mm B	Oval link mm C x A	Inclination DIN 13	Dimensions in mm				Weight approx. kg	Price each
						D1	H	SW	E		
09500028	0,3	M 8 x 18	13	46 x 30	1,25	38	105	30	50	0,48	
09500029	0,3	M 8 x 22	13	46 x 30	1,25	38	105	30	50	0,48	
09500030	0,3	M 10 x 18	13	46 x 30	1,5	36	105	30	50	0,5	
09500050	0,5	M 12 x 18	13	46 x 30	1,75	38	105	30	50	0,5	
09500052	0,5	M 12 x 25	13	46 x 30	1,75	38	105	30	50	0,5	
09500051	0,5	M 12 X 50	13	46 x 30	1,75	38	105	30	50	0,5	
09500080	0,5	M 14 x 20	13	46 x 30	2	38	105	30	50	0,5	
09500054	0,5	M 14 x 70	13	46 x 30	2	38	105	30	50	0,5	
09500125	1,12	M 16 x 20	13	46 x 30	2	38	105	30	50	0,53	
09500126	1,12	M 16 x 30	13	46 x 30	2	38	105	30	50	0,53	
09500127	1,12	M 16 x 32	13	46 x 30	2	38	105	30	50	0,53	
09500128	1,12	M 16 x 60	13	46 x 30	2	38	105	30	50	0,53	
09500129	1,12	M 16 x 80	13	46 x 30	2	38	105	30	50	0,53	
09500150	1,12	M 20 x 30	13	46 x 30	2,5	38	105	30	50	0,53	
09500151	1,12	M 24 x 30	13	46 x 30	3	38	105	30	50	0,53	
09500200	2,0	M 20 x 30	16	57 x 34	2,5	50	131	40	61	1,05	
09500201	2,0	M 20 x 40	16	57 x 34	2,5	50	131	40	61	1,05	
09500202	2,0	M 20 x 50	16	57 x 34	2,5	50	131	40	61	1,05	
09500203	2,0	M 20 x 70	16	57 x 34	2,5	50	131	40	61	1,05	
09500204	2,0	M 24 x 30	16	57 x 34	3,0	50	131	40	61	1,05	
09500300	3,15	M 24 x 30	19	70 x 40	3	58	153	48	68	1,63	Price on enquiry
09500301	3,15	M 24 x 45	19	70 x 40	3	58	153	48	68	1,63	
09500350	3,15	M 24 x 50	19	70 x 40	3	58	153	48	68	1,63	
09500351	3,15	M 30 x 35	19	70 x 40	3,5	58	153	48	68	1,63	
09500500	5,3	M 30 x 35	20	65 x 40	3,5	75	165	65	80	2,23	
09500501	5,3	M 30 x 45	20	65 x 40	3,5	75	165	65	80	2,23	
09500502	5,3	M 30 x 50	20	65 x 40	3,5	75	165	65	80	2,23	
09500503	5,3	M 30 x 60	20	65 x 40	3,5	75	165	65	80	2,23	
09500800	8,0	M 30 x 35	22	90 x 50	3,5	100	205	75	95	5,3	
09500801	8,0	M 30 x 45	22	90 x 50	3,5	100	205	75	95	5,3	
09500802	8,0	M 36 x 54	22	90 x 50	4	85	205	75	95	4,72	
09500804	8,0	M 39 x 60	22	90 x 50	4	85	205	75	95	4,72	
09501000	10	M 36 x 50	22	90 x 50	4	120	280	95	130	10	
09501054	10	M 36 x 54	22	90 x 50	4	120	280	95	130	10	
09501041	10	M 42 x 50	22	90 x 50	4,5	85	205	75	95	4,94	
09501042	10	M 42 x 63	22	90 x 50	4,5	85	205	75	95	4,94	
09501049	10	M 48 x 72	22	90 x 50	5	85	205	75	95	4,94	
09501048	10	M 48 x 68	22	90 x 50	5	85	205	75	95	4,94	
09501500	15	M 45 x 60	30	120 x 70	4,5	120	280	95	130	10	
09501501	15	M 48 x 60	30	120 x 70	5,0	120	280	95	130	10	
09501556	15	M 56 x 78	30	120 x 70	5,5	120	280	95	130	10	
09501564	15	M 64 x 96	30	120 x 70	6	120	280	95	130	10	
09501764	17	M 64 x 96	30	120 x 70	6	120	280	95	130	10	

Rotation with full load capacity is not permitted!!



Eye bolt C 806



Eye bolt C 806

Sling swivel for transport and construction

Grade 80 and Grade 100

DoKett

Sling swivel 0950/TWG

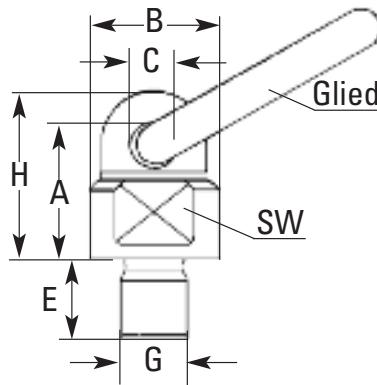
screwable, grade 80, small sizes, with ball bearing

Item no.	Carrying capacity t	Thread (G) x Thread-length (E)	Durchmesser mm B	Oval link mm C x A mm	Inclination DIN 13 B	Maße					Weight approx. kg	Price each		
						C	G	E	H	SW	A			
0950 2000	20	M 64 x 110	36	170 x 75 mm	6	129	45	64	110	190	105	150	17,60	Price on enquiry
0950 2001	20	M 64 x 80	36	170 x 75 mm	6	129	45	64	80	190	105	150	17,60	
0950 2002	20	M 64 x 90	36	170 x 75 mm	6	129	45	64	90	190	105	150	17,60	
0950 2500	25	M 72 x 150	36	170 x 75 mm	6	129	45	72	150	190	105	150	19,80	
0950 2501	25	M 80 x 150	36	170 x 75 mm	6	129	45	80	150	190	105	150	19,80	
0950 2502	25	M 72 x 90	36	170 x 75 mm	6	129	45	72	90	190	105	150	19,80	
0950 2503	25	M 80 x 110	36	170 x 75 mm	6	129	45	80	110	190	105	150	19,80	
0950 3000	31,5	M 90 x 150	40	170 x 80 mm	6	148	50	90	150	218	115	172	22,50	



180° pivoting!

360° rotation with full load capacity!



360° rotation with full load capacity is not permitted!

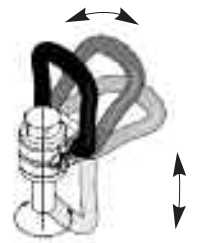
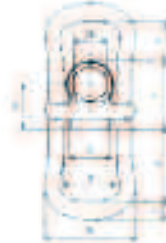
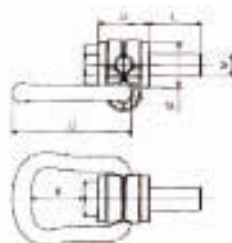


DoKett Plus sling swivel C 806, Grade 100, screwable with thread

Item no.	di- men- sion	Carrying capacity in t	A	B	C	D	E	F	G	H	I	L	W	J	K	Ch	Weight approx. kg	Price each
5925 1808	M 8	0,30	57	34	10	78	24	41	30	27	25	11	43	51	35	13	0,275	Price on enquiry
5925 1810	M 10	0,63	57	34	10	78	24	41	30	27	25	16	42	51	35	17	0,290	
5925 1812	M 12	1,00	66	38	14	85	30	50	36	33	32	21	40	52	28	19	0,500	
5925 1816	M 16	1,50	66	38	14	85	30	50	36	33	32	24	38	52	28	24	0,510	
5925 1820	M 20	2,50	87	55	16	111	48	68	43	43	45	32	54	71	36	30	1,250	
5925 1824	M 24	4,00	87	55	16	111	48	68	43	43	45	37	51	71	36	36	1,300	
5925 1827	M 27	4,00	109	66	23	145	54	91	61	59	60	39	64	86	47	41	3,150	
5925 1830	M 30	5,00	109	66	23	145	54	91	61	59	60	49	62	86	47	46	3,250	
5925 1835	M 36	7,00	109	66	23	145	54	91	56	59	59	60	48	60	88	55	3,300	
5925 1836	M 36	8,00	136	78	28	190	62	108	77	73	70	63	88	15	74	55	5,900	
5925 1841	M 42	10,00	136	78	26	190	62	108	73	73	70	73	88	115	70	65	6,500	
5925 1842	M 42	15,00	169	97	36	242	68	131	87	88	85	63	121	151	97	65	11,200	
5925 1848	M 48	20,00	169	97	36	242	68	131	87	88	95	73	117	151	93	75	11,600	



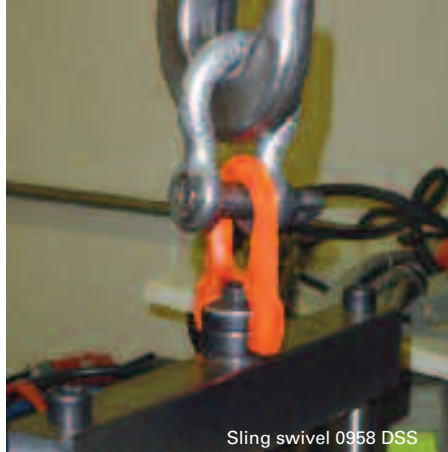
360° rotation with full load capacity is not permitted!



Sling swivel for transport and construction

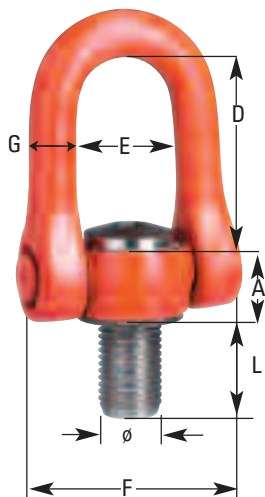
Grade 80 stainless steel

Dokkett



Sling swivel 0958 DSS

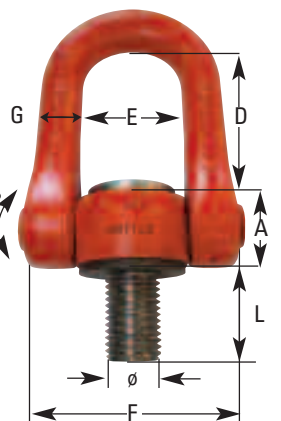
Sling swivel 0958 DSS universal, screwable with thread (SF ≤12,5to.= 5; SF ≥15to.=4)



Item no.	Carrying capacity / t	Thread ϕ	L	N.m	A	D	E	F	G	Weight approx. kg	Price each
0958 2060	6,3	M30 (x3,5)	50	250	61	104	73	145	29	5,5	Price on enquiry
0958 2080	8	M33 (x3,5)	50	250	61	104	73	145	29	5,5	
0958 2100	10	M36 (x4)	54	320	61	104	73	145	29	5,5	
0958 2101	10	M36 (x3)	54	320	61	104	73	145	29	5,5	
0958 2102	10	M39 (x4)	58	320	61	104	73	145	29	5,7	
0958 2125	12,5	M42 (x4,5)	63	400	61	104	73	145	29	5,8	
0958 2126	12,5	M42 (x3)	63	400	61	104	73	145	29	5,8	
0958 2150	15	M45 (x4,5)	63	400	61	104	73	145	29	5,7	
0958 2200	20	M48 (x5)	68	600	79	125	91	184	33	11,0	
0958 2201	20	M48 (x3)	68	600	79	125	91	184	33	11,0	
0958 2202	20	M48 (x4)	68	600	79	125	91	184	33	11,0	
0958 2203	20	M52 (x5)	68	600	79	125	91	184	33	11,2	
0958 2250	25	M56 (x5,5)	78	600	79	125	91	184	33	11,3	
0958 2251	25	M56 (x4)	78	600	79	125	91	184	33	11,4	
0958 2320	32,1	M64 (x6)	90	600	79	125	91	184	33	12,2	
0958 2321	32,1	M64 (x4)	90	600	79	125	91	184	33	12,2	
0958 2253	25	M72 (x6)	90	600	79	125	91	184	33	14,0	
0958 2322	32,1	M72 (x4)	90	600	79	125	91	184	33	14,0	
0958 2323	32,1	M80 (x6)	90	600	79	125	91	184	33	15,0	
0958 2324	32,1	M100 (x6)	90	600	79	125	91	184	33	16,5	

360° rotary with full load capacity!

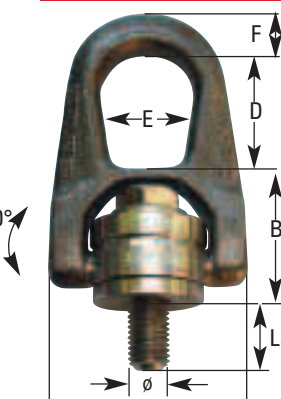
Sling swivel 0958 DSS-C with alignment, screwable with thread (SF ≤13to.= 5; SF ≥15to.=4)



Item no.	Carrying capacity / t	Thread ϕ	L	N.m	A	D	E	F	G	Weight approx. kg	Price each
0958 2060	6,3	M33 (x3,5)	50	250	61	104	73	145	29	5,5	Price on enquiry
0958 3080	8	M33 (x3,5)	50	250	61	104	73	145	29	5,5	
0958 3110	11	M36 (x4)	54	320	61	104	73	145	29	5,5	
0958 3111	11	M36 (x3)	54	320	61	104	73	145	29	5,5	
0958 3130	13	M42 (x4,5)	63	400	61	104	73	145	29	5,8	
0958 3131	13	M42 (x3)	63	400	61	104	73	145	29	5,8	
0958 3150	15	M45 (x4,5)	63	400	61	104	73	145	29	5,7	
0958 3220	22	M48 (x5)	68	600	79	125	91	184	33	11,0	
0958 3221	22	M48 (x3)	68	600	79	125	91	184	33	11,0	
0958 3222	22	M48 (x4)	68	600	79	125	91	184	33	11,0	
0958 3260	26	M56 (x5,5)	78	600	79	125	91	184	33	11,5	
0958 3261	26	M56 (x4)	78	600	79	125	91	184	33	11,5	
0958 3320	32,1	M64 (x6)	90	600	79	125	91	184	33	12,2	
0958 3321	32,1	M64 (x4)	90	600	79	125	91	184	33	12,2	

360° rotary with full load capacity!

Sling swivel 0958 SS-DSR, stainless steel, screwable with thread (SF5)



Item no.	Carrying capacity / t	Thread ϕ	L ₁	N.m	A	B	D	E	F	G	Weight approx. kg	Price each
0958 4030	0,3	M 8 (x1,25)	16	6	32	30	39	28	13	53	0,3	Price on enquiry
0958 4031	0,3	M 8 (x1,25)	16	6	30	30	39	28	13	53	0,3	
0958 4050	0,5	M10 (x1,5)	16	10	34	30	39	28	13	53	0,3	
0958 4051	0,5	M10 (x1,5)	16	10	31	30	39	28	13	53	0,3	
0958 4080	0,8	M12 (x1,75)	19	15	33	30	39	28	13	53	0,3	
0958 4081	0,8	M12 (x1,75)	19	15	30	30	39	28	13	53	0,3	
0958 4150	1,5	M16 (x2)	26	50	44	40	54	38	17	77	0,9	
0958 4160	1,6	M20 (x2,5)	30	100	43	40	54	38	17	77	1,0	
0958 4270	2,7	M24 (x3)	42	160	62	55	83	55	25	107	2,6	
0958 4300	3,0	M30 (x3,5)	47	250	62	55	83	55	25	107	2,8	

360° rotary with full load capacity!



Traceability of every sling swivel through engraved serial number.

Sling swivel for transport and construction

Grade 80

Dokkett

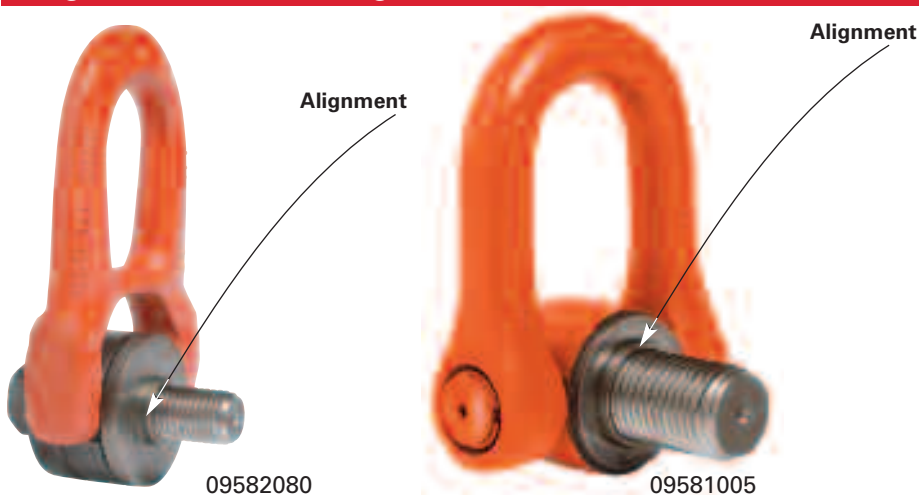
Sling swivel 0958 DSR universal, screwable with thread (SF 5)

Item no.	Carrying capacity / t	Thread ϕ	L ₁	N.m	A	B	D	E	F	G	Weight approx. kg	Price each
0958 0003	0,3	M 8 (x1,25)	14	6	33	30	38	27	14	53	0,3	Price on enquiry
0958 0006	0,6	M10 (x1,50)	17	10	33	30	38	27	14	53	0,3	
0958 0010	1,0	M12 (x1,75)	21	15	33	30	38	27	14	53	0,3	
0958 0013	1,3	M14 (x2)	23	30	45	42	54	38	17	76	0,9	
0958 0016	1,6	M16 (x2)	27	50	45	42	54	38	17	76	0,9	
0958 0020	2,0	M18 (x2,5)	27	70	45	42	54	38	17	76	0,9	
0958 0025	2,5	M20 (x2,5)	30	100	45	42	54	38	17	76	0,9	
0958 0030	3,0	M22 (x2,5)	33	120	62	55	83	55	25	107	2,6	
0958 0040	4,0	M24 (x3)	36	160	62	55	83	55	25	107	2,6	
0958 0050	5,0	M27 (x3)	40	200	62	55	83	55	25	107	2,7	
0958 0063	6,3	M30 (x3,5)	45	250	62	55	83	55	25	107	2,7	

Sling swivel 0958 DSR-C, with alignment, screwable with thread (SF5)

Item no.	Carrying capacity / t	Thread ϕ	L ₁	P	N.m	A	B	C	D	E	F	G	Weight approx. kg	Price each
0958 1005	0,5	M 8 (x1,25)	14	3	6	33	30	30	38	27	14	53	0,3	Price on enquiry
0958 1008	0,8	M10 (x1,50)	17	3	10	33	30	30	38	27	14	53	0,3	
0958 1012	1,2	M12 (x1,75)	21	3	15	33	30	30	38	27	14	53	0,3	
0958 1013	1,3	M14 (x2)	23	3	30	45	42	45	54	38	17	76	0,9	
0958 1020	2,0	M16 (x2)	27	3	50	45	42	45	54	38	17	76	0,9	
0958 1021	2,0	M18 (x2,5)	27	3	70	45	42	45	54	38	17	76	0,9	
0958 1027	2,7	M20 (x2,5)	30	3	100	45	42	45	54	38	17	76	0,9	
0958 1030	3,0	M22 (x2,5)	33	4	120	62	55	60	83	55	25	107	2,6	
0958 1050	5,0	M24 (x3)	36	4	160	62	55	60	83	55	25	107	2,6	
0958 1051	5,0	M27 (x3)	40	4	200	62	55	60	83	55	25	107	2,7	
0958 1063	6,3	M30 (x3,5)	45	4	250	62	55	60	83	55	25	107	2,7	

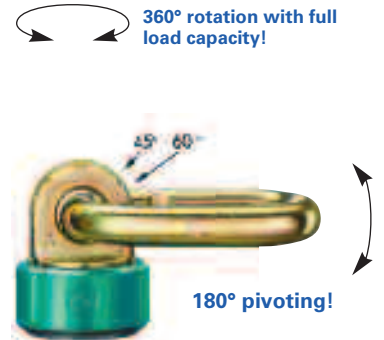
Sling swivel 0958, with alignment



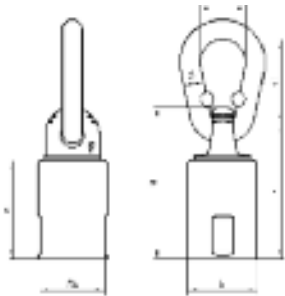
Sling swivel Premium, Grade 100

Transport ring DIN EN 1677

Dokkett



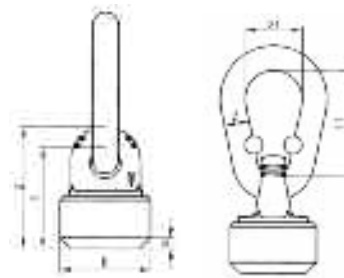
DoComfort Sling swivel, premium IG with interior thread, ball bearing, Grade 100



Item no.	Carrying cap. t	Thread/thread length dx/mm	Torque Nm	Inclination DIN 13	Dimensions in mm				Oval link ø x t x b/mm	Weight approx. kg	Price each
					a	b	g	SW t			
4959 2005	0,5	12 x 15	15 - 40	1,75	45	36,5	73	34 66	13 x 55 x 32	0,61	Price on enquiry
4959 2010	1,0	16 x 20	45 - 130	2,00	52	36,5	80	34 73	13 x 55 x 32	0,65	
4959 2017	1,7	20 x 25	100 - 170	2,50	66	52	106	46 95	16 x 70 x 34	1,50	
4959 2021	2,1	24 x 30	190 - 280	3,00	80	57	120	50 108	18 x 85 x 45	2,12	
4959 2032	3,2	30 x 40	230 - 400	3,50	94	70	148	65 131	20 x 85 x 45	3,70	
4959 2050	5,0	36 x 45	270 - 600	4,00	107	80	164	75 145	23 x 115 x 60	5,75	

DoComfort sling swivel premium Grade 100 is the further development of the already known sling swivel 0950 in Grade 80 and Grade 100. Increased load capacity by 25% and compliance with the dimensions of the current sling swivels of Grade 80. Better rotation behaviour through additional bearing resulting in better stepless rotation under full or diagonal load at 90°.

DoComfort Sling swivel Premium S, rotatable 360°, weldable, ball bearing, Grade 100

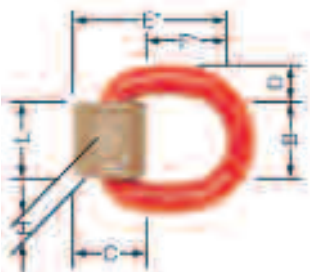


360° rotation with full load capacity!

*Please observe instructins or request welding directives.

360° rotation with full load capacity is not permitted!

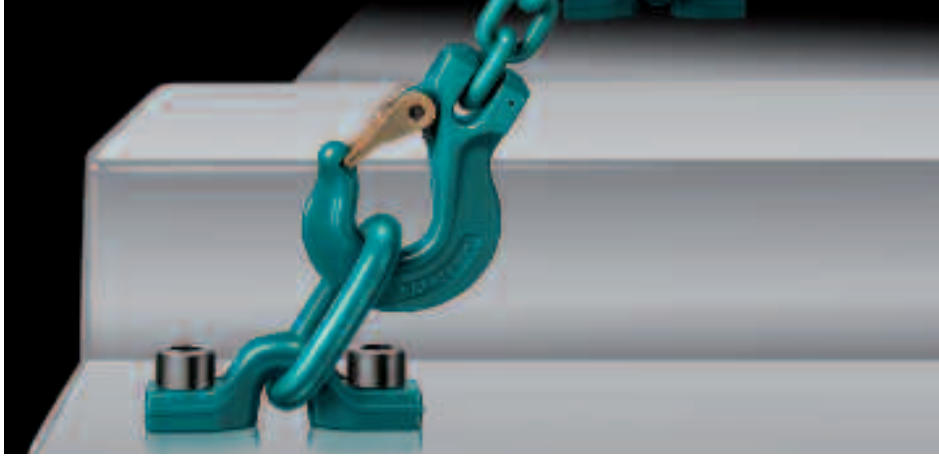
Transport ring 0119, weldable



Item no.	Carrying cap. t	Dimensions parts in mm	Screw E	F	Dimensions in mm				Weight approx. kg	Price per unit	
					C	L	H	D	B		
0951 3200	31,50	56 x 174 x 180	292	174	145	165	118	56	180	27,30	o.e.
0951 4000	50,00	72 x 227 x 230	371	229	186	210	145	72	230	60,00	o.e.

E and F dimensions vertical to the welding area

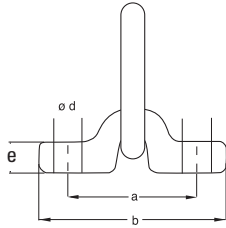
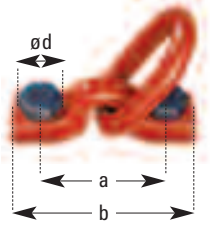
*Please observe instructins or request welding directives.



Transport rings DIN EN 1677

Dokkett

Transport ring TPB, screw-on model



Item no.	Carrying cap. in t	Glied-dimensions in mm	Screw d	Dimensions in mm			Weight approx. kg	Price each
				e	a	b		
0952 1500*	15,00	32 x 150 x 75	M 36	40	175	255	7,4	Price on enquiry
0952 2000*	20,00	40 x 190 x 100	M 42	50	200	295	15,1	
0952 2500*	25,00	40 x 190 x 100	M 45	50	200	295	15,1	
0952 3200*	32,00	40 x 190 x 100	M 48	50	200	295	15,0	

* without screws - screws as per EN 24017 (DIN 933) – solidity class at least 10.9, crack-tested



Transport ring 0122, screw model



Item no.	Carrying cap. in t	Dimensions parts in mm	Screw	Dimensions in mm								Weight approx. kg	Price each
				E	F	A	C	L	D	B			
0952 3150	31,50	48 x 193 x 110	M 56	336	193	230	100	330	48	110	31,70	o.e.	
0952 3600	36,00	48 x 193 x 110	M 56	336	193	230	100	330	48	110	31,70	o.e.	

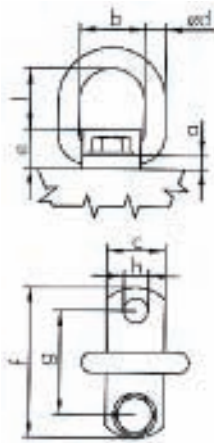
Supplied completely with 2 screws

Eye bolts
screwable,
weldable
Grade 80

Dokkett



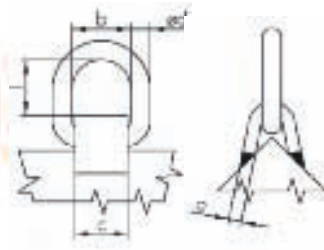
Eye bolt 0952, Grade 80, for screwing on



Item no.	Carrying cap. in t	Screw	Dimensions in mm									Weight kg	Price each
			a	b	c	d	e	f	g	h	l		
0952 3000	3,15	M 20	12	92	50	18	34	130	90	21	53	1,08	Price on enquiry
0952 5000	5,30	M 24	15	111	60	22	42	160	110	25	63	2,04	
0952 8000	8,00	M 27	20	132	70	26	55	190	130	28	68	3,58	

Supply without hexagonal screws. (Hexagonal screw at least quality 8.8, as per DIN EN 24018 previously DIN 931)

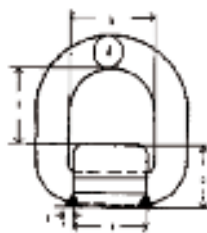
Eye bolt 0951 K for edge fastening with weld-on strap*, Grade 80



Item no.	Carrying cap. in t	Dimensions in mm					Weight kg	Price each
		a	b	c	d	l		
0951 3001	3,15	12	56	50	18	53	0,90	Price on enquiry
0951 5001	5,30	15	67	60	22	63	1,40	
0951 8001	8,00	20	80	70	26	68	2,35	

*Please observe instructions or request welding directives.

Eye bolt 0951 with weld-on strap*, Grade 80

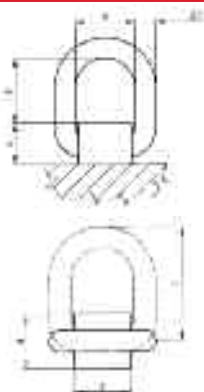


Item no.	Carrying cap. in t	Dimensions in mm					Weight kg	Price each
		a	b	c	d	t		
0951 1000	1,12	35	40	28	13	42	0,40	Price on enquiry
0951 3000	3,15	42	45	33	18	48,5	0,60	
0951 5000	5,30	49	55	44	22	57	1,20	
0951 8000	8,00	64	70	51	26	67	2,40	
0951 1500	15,00	86	97	65	34	93,5	5,90	

Also available in special design with spring (stops the clamp in vertical position), please enquire.

*Please observe instructions or request welding directives.

Eye bolt 0951 S, for heavy loads, weldable



Item no.	Carrying cap. in t	Dimensions in mm						Weight	Price each	
		a	b	c	d	e	f			l
0951 0020	20,0	125	150	125	46	90	254	155	16,00	Price on enquiry
0951 0025	25,0	135	170	140	52	100	288	175	22,80	
0951 0030	30,0	155	200	170	56	110	334	210	32,30	
0951 0035	35,0	165	200	170	56	115	334	215	34,30	
0951 0040	40,0	180	210	185	62	130	363	220	45,20	
0951 0050	50,0	190	230	195	73	135	395	235	60,30	
0951 0063	63,0	190	230	195	73	135	395	235	60,30	

*Please observe instructions or request welding directives.

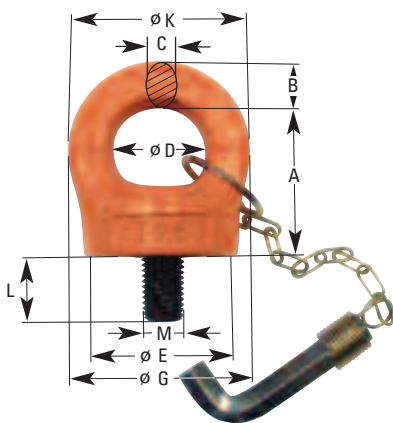


DoKett Plus - Components

Load capacity table for Ring screws and Ring nuts

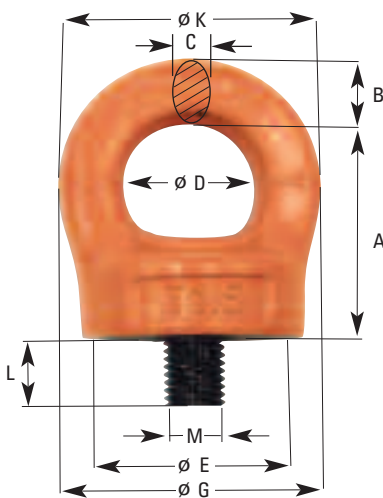
DoKett

DoKett Plus - Grade 100 Ringscrew C 807 S, variable for flexible load orientation



Item no.	Thread	Carrying cap.	Dimensions in mm								Price each
			A	B	C	D	E	G	K	L	
5925 2008	M 8	0,40	53	12	9	25	32	34	49	15	Price on enquiry
5925 2010	M 10	0,40	53	12	9	25	32	34	49	15	
5925 2012	M 12	0,75	62	14	9	30	44	46	58	18	
5925 2016	M 16	1,5	72	16	15	35	56	60	67	24	
5925 2020	M 20	2,3	80	18	17	40	58	60	76	30	
5925 2024	M 24	3,2	97	23	20	48	73	76	94	36	
5925 2030	M 30	4,5	124	27	28	60	80	84	114	45	
5925 2036	M 36	7	125	37	38	80	95	99	154	54	
5925 2042	M 42	9	148	40	41	90	105	114	170	63	
5925 2048	M 48	12	165	45	47	95	120	129	185	72	

DoKett Plus - Grade 100, Ringscrew C 807



Item no.	Thread	Carrying cap.	Dimensions in mm								Price each
			A	B	C	D	E	G	K	L	
5925 2108	M 8	0,40	53	12	9	25	32	34	49	15	Price on enquiry
5925 2110	M 10	0,40	53	12	9	25	32	34	49	15	
5925 2112	M 12	0,75	62	14	9	30	44	46	58	18	
5925 2116	M 16	1,5	72	16	15	35	56	60	67	24	
5925 2120	M 20	2,3	80	18	17	40	58	60	76	30	
5925 2124	M 24	3,2	97	23	20	48	73	76	94	36	
5925 2130	M 30	4,5	124	27	28	60	80	84	114	45	
5925 2136	M 36	7	125	37	38	80	95	99	154	54	
5925 2142	M 42	9	148	40	41	90	105	114	170	63	
5925 2148	M 48	12	165	45	47	95	120	129	185	72	

Load capacity table for DoKettPlus-ring screws und -ring nuts, Grade 100

Thread	1-Strand	2-Strands	1-Strand	2-Strands	2-Strands		Asym-metrical	3/4-Strands		Asym-metrical
	0°	0°	90°	90°	0° - 45°	45° - 60°		0° - 45°	45° - 60°	
M 8	1	2	0,4	0,8	0,56	0,4	0,4	0,84	0,6	0,6
M 10	1	2	0,4	0,8	0,56	0,4	0,4	0,84	0,6	0,6
M 12	2	4	0,75	1	1	0,75	0,75	1,6	1,12	0,75
M 16	4	8	1,5	3	2,1	1,5	1,5	3,15	2,25	1,5
M 20	6	12	2,3	4,6	3,22	2,3	2,3	4,83	3,45	2,3
M 24	8	16	3,2	6,4	4,48	3,2	3,2	6,7	4,8	3,2
M 30	12	24	4,5	9	6,3	4,5	4,5	9,4	6,7	4,5
M 36	16	32	7	14	9,8	7	7	14,7	10,5	7
M 42	24	48	9	18	12,6	9	9	18,9	13,5	9
M 48	32	64	12	24	16,8	12	12	25,2	18	12

Ring screws and ring nuts Grade 80

Dolett

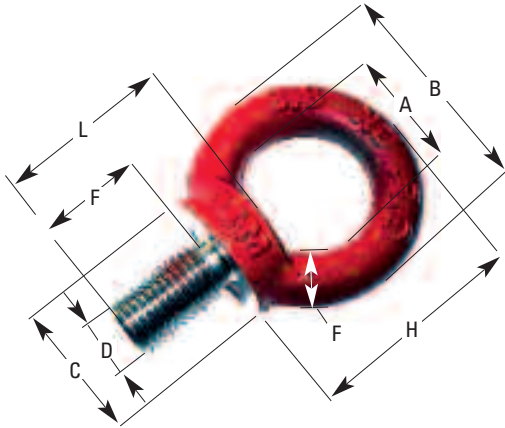


**Ring screws and
ring nuts available up to
thread size M 64.**

Please enquire.



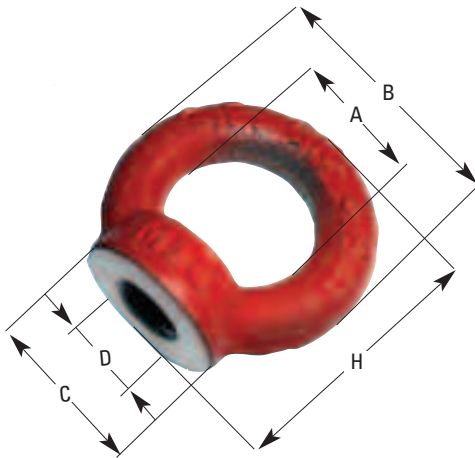
Ring screws, high-strength, red varnished



Item no.	Carrying cap. t for vertical load	Carrying cap. t for loads under 60°	Thread D	Dimensions in mm						Price each
				B	A	H	F	L	C	
0957 0006	0,40	0,10	M 6	45	25	45	10	13	25	Price on enquiry
0957 0008	0,80	0,20	M 8	45	25	45	10	13	25	
0957 0010	1,00	0,25	M 10	45	25	45	10	17	25	
0957 0012	1,60	0,40	M 12	63	35	62	14	21	35	
0957 0014	3,00	0,75	M 14	63	35	62	14	21	35	
0957 0016	4,00	1,00	M 16	63	35	62	14	27	35	
0957 0018	5,00	1,25	M 18	90	50	90	20	27	50	
0957 0020	6,00	1,50	M 20	90	50	90	20	30	50	
0957 0024	8,00	2,00	M 24	90	50	90	20	36	50	
0957 0027	10,00	2,50	M 27	108	60	109	24	45	65	
0957 0030	12,00	3,00	M 30	108	60	109	24	45	65	
0957 0033	14,00	3,50	M 33	126	80	128	26	54	75	
0957 0036	16,00	4,00	M 36	126	80	128	26	54	75	
0957 0042	24,00	6,00	M 42	144	80	147	30	63	85	
0957 0048	32,00	8,00	M 48	166	90	168	35	68	100	

Ring screws und Ring nuts bis Threadsiz M 64 lieferbar. Please request!

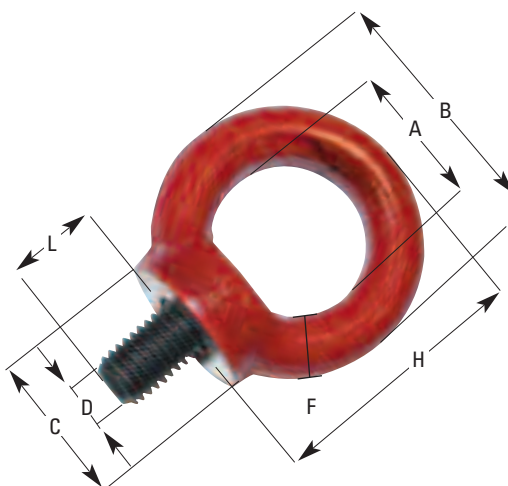
Ring nuts, high-strength, red varnished



Item no.	Carrying cap. t for vertical load	Carrying cap. t for loads under 60°	Thread D	Dimensions in mm				Price each
				B	A	H	C	
0990 7206	0,40	0,10	M 6	45	25	45	25	Price on enquiry
0990 7208	0,80	0,20	M 8	45	25	45	25	
0990 7210	1,00	0,25	M 10	45	25	45	25	
0990 7212	1,60	0,40	M 12	63	35	62	35	
0990 7214	3,00	0,75	M 14	63	35	62	35	
0990 7216	4,00	1,00	M 16	63	35	62	35	
0990 7218	5,00	1,25	M 18	90	50	90	50	
0990 7220	6,00	1,50	M 20	90	50	90	50	
0990 7224	8,00	2,00	M 24	90	50	90	50	
0990 7227	10,00	2,50	M 27	108	60	109	65	
0990 7230	12,00	3,00	M 30	108	60	109	65	
0990 7233	14,00	3,50	M 33	144	80	144	75	
0990 7236	16,00	4,00	M 36	144	80	144	75	
0990 7242	24,00	6,00	M 42	144	80	144	85	
0990 7248	32,00	8,00	M 48	166	90	166	100	

Ring screws und Ring nuts bis Threadsiz M 64 lieferbar. Please request!

Ring screws, variable for flexible load orientation, Grade 80



Item no.	M	Carrying capacity in t	Thread DxL mm	Dimensions in mm					Weight kg	Price each
				A	B	C	F	H		
0957 0206	6	0,10	M 6x15	25	45	25	10	45	0,090	Price on enquiry
0957 0208	8	0,20	M 8x15	25	45	25	10	45	0,090	
0957 0210	10	0,25	M 10x16	25	45	25	10	45	0,110	
0957 0212	12	0,40	M 12x22	35	63	35	14	62	0,270	
0957 0214	14	0,75	M 14x20	35	63	35	14	62	0,290	
0957 0216	16	1,00	M 16x29	35	63	35	14	62	0,310	
0957 0220	20	1,50	M 20x32	50	90	50	20	90	0,860	
0957 0224	24	2,00	M 24x40	50	90	50	20	90	0,900	
0957 0230	30	3,00	M 30x45	60	108	65	24	109	1,700	

Turn ring screw in load direction and tighten with hexagon socket.
(supplied without hexagon socket)





Spezial ring screws on request

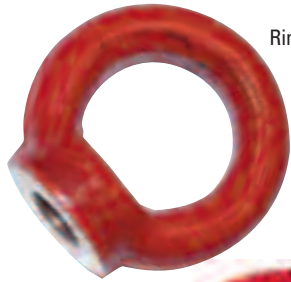
Ring screw and Ring nuts

Load capacity table

Grade 80

Dokkett

Load capacity table for ring screws und ring nuts, Grade 80



Ringmutter



Ringscrew

Thread D	Load capacity for vertical load 0°	Load capacity at inclination under				
		2 Strands 0°	2 Strands 0-45°	3/4 Strands 45-60°	3/4 Strands 0-45°	3/4 Strands 45-60°
M 6	0,4	0,8	0,14	0,1	0,2	0,14
M 8	0,8	1,6	0,28	0,2	0,4	0,28
M 10	1	2	0,35	0,25	0,5	0,35
M 12	1,6	3,2	0,56	0,4	0,8	0,56
M 14	3	6	1	0,75	1,5	1
M 16	4	8	1,4	1	2	1,4
M 18	5	10	1,8	1,25	2,5	1,8
M 20	6	12	2,1	1,5	3	2,1
M 24	8	16	2,8	2	4	2,8
M 27	10	20	3,5	2,5	5	3,5
M 30	12	24	4,2	3	6	4,2
M 33	14	28	4,8	3,4	6,8	4,8
M 36	16	32	5,6	3,9	7,8	5,4
M 42	24	48	8,4	5,9	11,8	8,2
M 48	32	64	11,2	7,8	15,6	10,9
M 56	36	72	12,6	8,8	17,6	15,4
M 64	45	90	15,7	11	22	15,4



Sling swivel 0958 DSH, rotary, with thread and self locking hook SF = 5
Prices on request



Sling swivel 0958 TSR, rotary, with thread and link,
SF < 12,5 to = 5;
SF > 20 to = 4
Prices on request

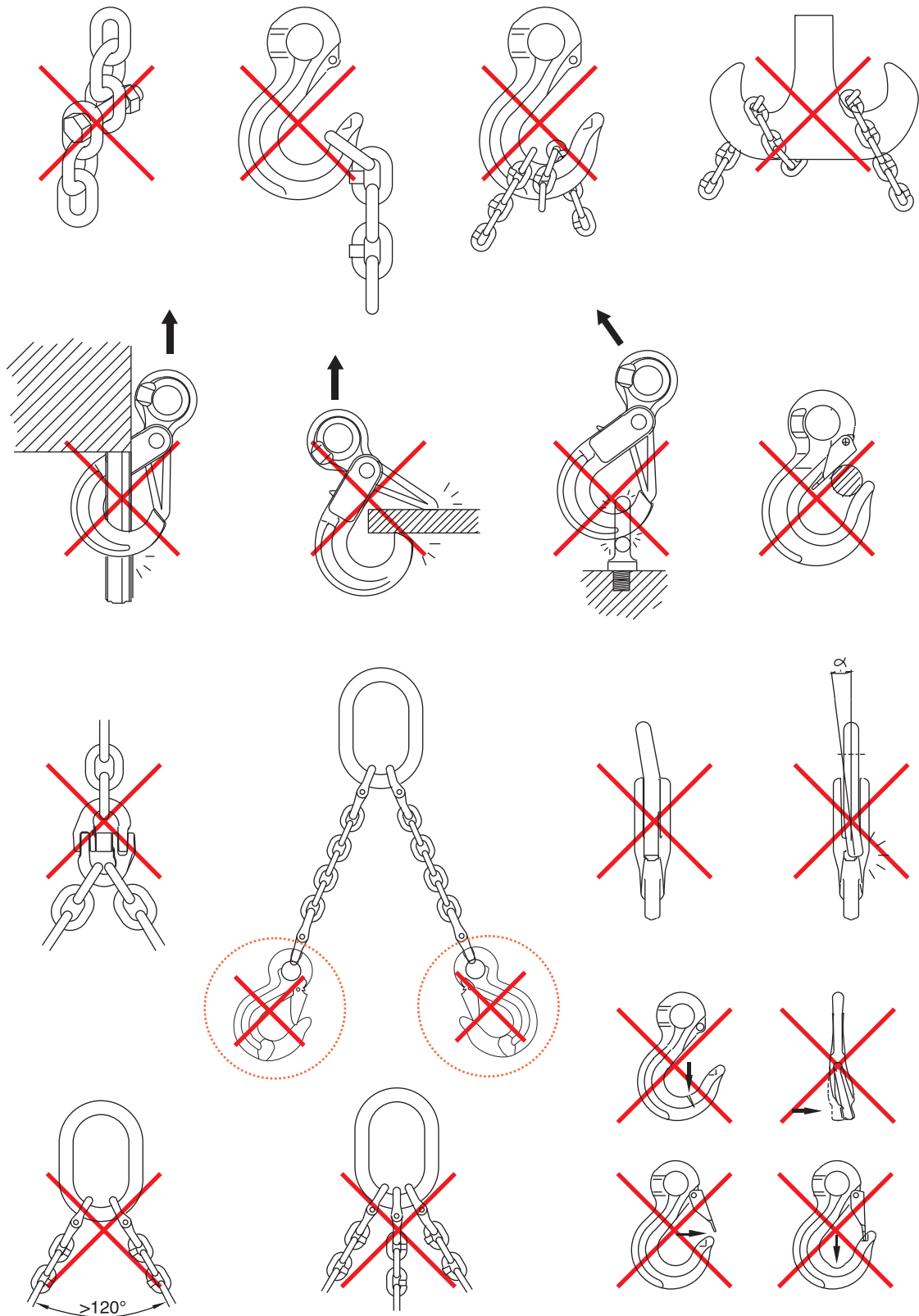
Load capacity table for ring screws, variable for flexible load orientation, Grade 80



Thread D	Load capacity for vertical load 0°	Load capacity for loads under 90°						
		2 Strands 0°	2 Strands 90°	2 Strands 0-45°	2 Strands 45-60°	3/4 Strands 0-45°	3/4 Strands 45-60°	
M 6	0,4	0,8	0,1	0,2	0,14	0,1	0,2	0,14
M 8	0,8	1,6	0,2	0,4	0,28	0,2	0,4	0,28
M 10	1,0	2,0	0,25	0,5	0,35	0,25	0,5	0,35
M 12	1,6	3,2	0,4	0,8	0,56	0,4	0,8	0,56
M 14	3,0	6,0	0,75	1,5	1,0	0,75	1,5	1,0
M 16	4,0	8,0	1,0	2,0	1,4	1,0	2,0	1,4
M 20	6,0	12	1,5	3,0	2,1	1,5	3,0	2,1
M 24	8,0	16	2,0	4,0	2,8	2,0	4,0	2,8
M 30	12	24	3,0	6,0	4,2	3,0	6,0	4,2

Avoid mistakes in practical use!

Please observe the operating instructions on pages 366-369 when using chain slings.



Lifting appliances



Grabs
Clamps
Tongs/Grabs
Lifting beams
Chain hoists
Wire rope hoists
Winches
Magnets

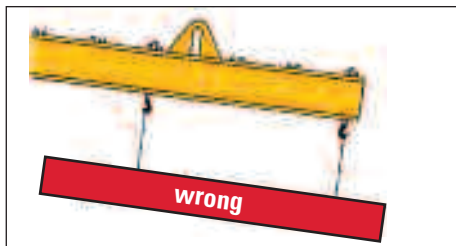
LIFTING BEAMS

Binding regulations for lifting devices are BGR 500 and DIN 15428. Lifting beam lifting devices for latching in crane hooks or as bearing means lifting beam cranes that are solid -steel constructions, which are made by various welders in accordance with DIN 15018. Lifting beams must be inspected at least once a year by an expert. The basis for this inspection is DIN 15409 (lifting appliances, lifting devices, usage monitoring). Repairs must be carried out by Dolezych only. As a manufacturer of lifting beams and lifting appliances, we ensure the proper execution of all works.

Excentric fitting of loads on lifting beams:

If the lifting beam does not hang over the load's centre of gravity, the load can fall out of the lifting device. One-sided lifting beam hanging means danger!

The inclination angle of two strands of a lifting gear must never exceed 60°. Exceeding this angle results in imminent danger. The strain of the single strand increases beyond the entire force coming from the load. Lifting beams allow small lifting heights which allows lifting in low halls. For long loads, inclination angles of the lifting devices can therefore be avoided entirely. Under lif-



... the wide range for load carrying and lifting appliances and cranes

ting beams, the load must be underpinned so that it cannot bend excessively or individual parts can loosen themselves from the load and fall out.

CRANES

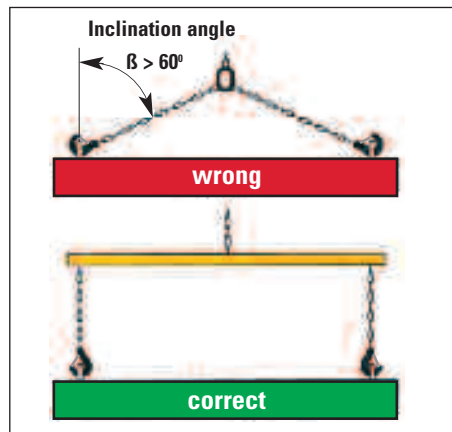
Cranes and lifting devices made by us comply with the current machine directive and the relevant directives of the UVV. They bear the CE label. Upon delivery, you are provided with a test log/test certificate. It documents the inspections in the factory and serves to document the regular inspections. Before commissioning, the lifting construction must be inspected and certified by statistical expert opinion, if necessary. According to BGR 500, all cranes must be inspected at least once a year by an expert. Lifting appliances used with a trolley are also subject to the provisions of the BGR (formerly VBG 9). With a carrying capacity above 1,000 kg or with at least two power-driven movements, they must be inspected by a crane expert before commissioning.

As with all products the following applies: before use, the instructions for use must be carefully read. Knowledge of the dangers limits the risk of accidents.

As a rule, it is forbidden:

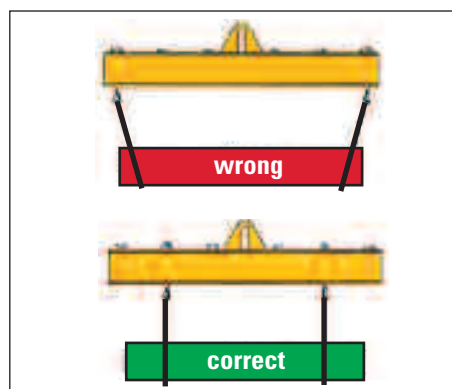
1. to transport people
2. to transport hanging loads above people
3. to pull hanging loads diagonally
4. to tear free stuck or jammed loads
5. to hang excessive loads
6. to leave hovering loads hanging without supervision
7. to direct lifting chains or ropes across sharp edges
8. to use lifting chains or ropes as load-carrying slings
9. to drop loads into a non-tightened chain or rope

Non-allowed inclination angles are avoided with lifting beams.



When using a lifting beam, the full carrying capacity of the lifting sling is always used, because the strands hang vertically.

Lifting with opposite inclination angles:
The lifting sling can also slip to the side under the load: danger!



The suitably designed lowering position for DoLast lifting beams simplifies the handling, and protects against injuries and accidents.

LIFTING CLAMPS

To transport vertically hanging sheets, clamps with safety levers must be used.

To erect lying plates and for laying down and turning them, there are suitable turn clamps. The drag on the clamp used as lifting system presses the hardened clamp jaw (pawl) with its grooves against the sheet so that a kind of micro form fit occurs. On the opposite side, a rosette presses into the sheet in the same way which should have a surface hardness between St 37 and St 52.3. An internal spring ensures that the lifting clamp holds also when putting down the sheet, i.e. without lifting force. Only by loosening the safety lever, the sheet is released. The clamp effect through the lifting system is only sufficient if the thickness of the sheet is in the clamp's lever area. With a clamp with a lower grasping threshold of, for instance, 10 mm, too thin sheets of, for instance, 7 mm would slip through.

Clamps for vertical transportation of sheets or plates are always suitable for transporting individual parts only.

For horizontal sheet transport, there are lockable and non-lockable clamps. For thin sheets, which can bend and vibrate very strongly, the lockable models are recommended. In order to safely transport sheets or sheet packets horizontally, it is better to use DoLast lifting beams and 4 clamps. For dry and polished sheets, special clamps are available which have a higher pressure with even,

non-corrugated pressing surfaces to avoid grooves in the sheet.

For special profiles, such as rails, sheet piles or double T beams, there are special clamps which partly also work by form fitting or blocking.

Distance-operated clamping is possible through compressed air or mechanically. This is especially suitable for clamp lifting beams, as the lifter – standing outside of the danger area – can trigger all clamps at the same time.

For use with chemicals and for temperatures above 50° C, standard clamps are not suitable. The lever joints would soon be damaged. Special clamps are available to use with chemicals. Please enquire.

Due to different designs of the clamps, always observe the instructions of use supplied with the respective clamp model.

As a rule, only use clamps with legible labels for carrying capacity, grabbing area and type plate.

Notes on operation:

The surfaces for the clamps on the transport goods must be right opposite of one another. The surfaces should be free from scale, dirt, lubricants or other covers. For vertical lifting with suitable clamps, only a part may be transported. When erecting and turning with two or more lift clamps, the edge lying at the bottom must remain in contact with the floor. To prevent the load from swinging, it is lifted above the centre of gravity or preferably, two clamps are used.

No persons should be located under hanging loads and in the danger area.



Every clamp must be inspected before every commissioning and after any repairs as well as at least once a year by an expert. If used regularly, an inspection interval of no more than 3 months is recommended. The bolts, the housing, the suspension and levers must be checked for deformation and cracks.

The grabbing parts must be replaced if they are visibly worn out. Here, every tooth must be checked because if the sheet thickness remains the same, only one tooth wears out. During inspection, the spring tension must also be checked. Worn out parts should be replaced by Dolezych. Only original spare parts guarantee the clamps' functionality.



Dolezych offers inspection, repair and maintenance service for all lifting appliances and load securing means.



The current Dolezych carrying capacity poster for all lifting sling Item no. 03955555

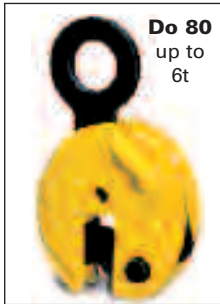
Lifting clamps

DoLast



The surface hardness of the transport goods must be below HRC 30 for DoLast lifting clamps to securely lift sheets.

Harder material results in premature wear and tear of the grabbing teeth.

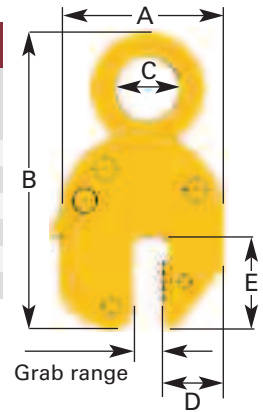


Do 80 lifting clamps with safety stop

Item no.	Carrying cap. t	Grab range mm	Weight kg	Dimensions in mm					Price each
				A	B	C	D	E	
0892 0005	500	0-16	1,5	99	195	29	33	47	Price on enquiry
0892 0010	1.000	0-20	3,0	126	225	50	49	70	
0893 2020	2.000	0-32	9,3	192	312	80	75	96	
0893 2030	3.000	0-32	9,3	192	312	80	75	96	
0895 0041	4.000	0-32	11,2	197	339	80	68	93	
0895 0060	6.000	0-50	20,6	293	442	89	95	143	

Sheet grabbers with greater carrying capacity and larger grab range on request.

*Model with 0.5t carrying capacity without locking lever. Locking via a spring tension.



Lifting clamps are the solution for the transport of sheets and profiles and can be tailored precisely to your area of application.

The use of clamps and grabbers is subject to the provisions of BGR 500 (formerly UVV 18.4).

Note: Clamps and the load to be transported must fit in the grab range, because there is a risk of slipping out. Only one sheet plate may be transported in one clamp to ensure the traction between clamp and sheet.

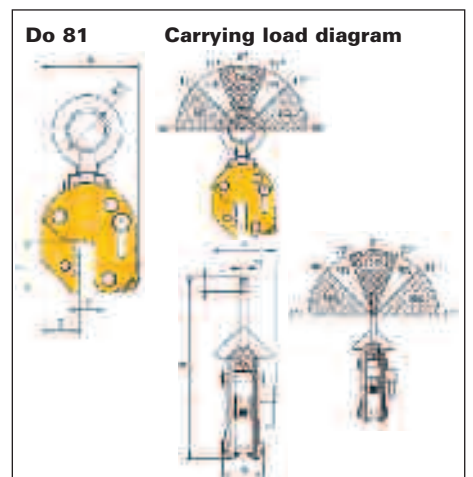
Do 81 lifting clamps with swivel eye

The grabber can be fitted to all positions on the sheet. It can stand up vertically, lie down horizontally or lift via the edge with lateral lifting.

Note: As the swivel eye moves into diagonal position when lifting, the carrying capacity is reduced, see carrying load diagram, bottom right.

Item no.	Carrying cap. t	Grab range mm	Weight kg	Price each
0892 0110	1.000	0-20	4,6	Price on enquiry
0893 2120	2.000	0-32	14,3	
0893 2130	3.000	0-32	14,3	
0893 2145	4.500	0-50	34,4	
0893 2160	6.000	0-50	38,0	
0893 2161	6.000	50-100	42,0	

Sheet grabbers with higher carrying capacity and greater grab range are available on request.





Do 87 MPC 1 lifting clamps in use
(observe loss of carrying capacity)

Do 86 MPS lifting clamps with rigid suspension eye

MPS 1 model

For vertical lifting and 180° turning of sheet, steel plates, beams and steel construction elements.

The safety lever to open the clamp can be locked in closed position with a lifted load. Unsupervised opening of the clamp when unloading is therefore prevented.

MPS 2 model

Function and area of application as with model MPS 1, but the safety lever to open the clamp can be locked in open and closed position. This means that the clamp can be brought to the load in open position, fitted and locked. After dropping and securing the load, the "openly" locked clamp can be lifted with the crane.



MPS 1

Carrying cap. kg	Opening width mm	MPS 1 weight approx. kg	Item no.	Price each	MPS 2 weight approx. kg	Item no.	Price each
1.000	0 - 25	4,4	0821 9011	Price on enquiry	4,5	0821 9013	Price on enquiry
1.000	25 - 50	4,2	0823 2011		4,2	0823 2023	
2.000	0 - 30	7,5	0821 9021		7,5	0821 9023	
2.000	30 - 60	8,0	0823 2021		8,0	0823 2022	
3.000	5 - 35	12,0	0823 3035		13,3	0823 3036	
3.000	35 - 70	13,8	0823 3070		12,5	0823 3071	
5.000	5 - 50	18,6	0823 5050		18,0	0821 9022	
5.000	50 - 100	19,0	0823 5100		19,0	0823 5123	



MPS 2

Do 87 MPC lifting clamps with swiveling suspension eye

MPC 1 model

For vertical lifting 180° turning and lateral lifting of sheet, steel plates, beams and steel construction elements. The safety lever to open the clamp can be locked in closed position with a lifted load. Unsupervised opening of the clamp when unloading is therefore prevented.

Modell MPC 2

Function and area of application as with model MPC 2, but the safety lever to open the clamp can be locked in open and closed position. This means that the clamp can be brought to the load in open position, fitted and locked. After dropping and securing the load, the "openly" locked clamp can be lifted with the crane.

Note: As the swivel eye moves into a diagonal position when lifting, the carrying capacity is reduced, see carrying load diagram on previous page.

Carrying cap. kg	Opening width mm	MPS 1 weight approx. kg	Item no.	Price each	MPS 2 weight approx. kg	Item no.	Price each
1.000	0 - 25	4,9	0825 5111	Price on enquiry	5,0	0826 0111	Price on enquiry
1.000	25 - 50	4,2	0825 0111		4,8	0826 0112	
2.000	0 - 30	7,5	0825 5121		8,4	0826 0122	
2.000	30 - 60	8,0	0825 0121		8,0	0826 0121	
3.000	5 - 35	12,0	0825 5131		12,0	0826 0132	
3.000	35 - 70	12,5	0825 0131		13,9	0826 0133	
5.000	5 - 50	18,0	0825 5151		22,6	0826 0152	
5.000	50 - 100	19,0	0825 0151		19,0	0826 0155	



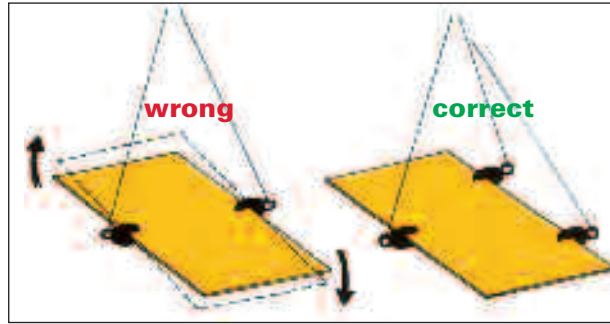
MPC 1



MPC 2

Horizontal lifting clamps

DoLast



When transporting with only 2 clamps, there is a risk of the load swinging.

It is not allowed to be present under transport goods of clamps and grabbers.



Inclination angle	Carrying cap.
0 - 30°	100 %
30 - 45°	70 %
45 - 60°	50 %

NOTE!

For horizontal lifting clamps, the carrying capacity is reduced in accordance with the angle of inclination of the lifting gear.

Do 90 K horizontal lifting clamps

Horizontal lifting clamps for the transport of form-stable sheets, sheet parcels, steel plates.

The lever clamps are fitted to suitable lifting suspensions – which we can supply on request – and attached in three or preferably four points.

Item no.	Carrying cap. kg	Grab range mm	Weight approx. kg	Price each
0842 5105	250	0 - 25	2,0	Price on enquiry
0845 1110	500	0 - 40	3,0	
0845 1115	750	0 - 50	4,0	Price on enquiry
0845 1130	1.500	0 - 70	10,0	
0845 1160	3.000	0 - 51	13,0	Price on enquiry
0845 1180	4.000	0 - 65	18,0	



Do 91 K horizontal lifting clamps, manually adjustable

Lifting clamp for horizontal transport of sheets and sheet parcels. With a socket pin, the grab range can be quickly adjusted between 0 to a max. of 350 mm.

The respective clamp range has a width of 60 mm.

Item no.	Carrying cap. kg	Grab range mm	Weight approx. kg	Price each
0898 1810	500	0 - 150	10,0	Price on enquiry
0898 1815	750	0 - 300	12,0	
0898 1830	1.500	0 - 180	12,0	Price on enquiry
0898 1831	1.500	0 - 300	14,0	
0898 1860	3.000	0 - 180	18,0	Price on enquiry
0898 1862	3.000	0 - 300	21,0	



Do 90 KKG horizontal lifting clamp with especially large grab range

Lifting clamps for use in pairs. They have a large grab range and are therefore especially suitable to transport rough and fine sheet parcels.

Item no.	Carrying cap. kg	Grab range mm	Weight approx. kg	Price each
0894 2307	1.250	5 - 100	13,0	Price on enquiry
0897 5026	1.250	50 - 150	15,0	
0894 2310	2.500	5 - 100	20,0	Price on enquiry
0894 2315	2.500	50 - 150	25,0	
0894 2316	2.500	100 - 250	30,0	Price on enquiry
0894 2320	3.750	100 - 250	35,0	



Do 90 KSi horizontal lifting clamp with safety locking

Lifting clamp for horizontal transport of sheets, plates and profiles. Design with safety stop, with spring pre-tension the grab pin is pressed on the sheet. This ensures – including drag release or when setting down – secure grabbing.

Item no.	Carrying cap. kg	Grab range mm	Weight approx. kg	Price each
0897 0250	500	0 - 20	5,0	Price on enquiry
0897 0500	1.000	0 - 25	6,0	
0897 0750	1.500	0 - 35	9,0	Price on enquiry
0897 1000	2.000	0 - 40	12,0	
0897 1500	3.000	5 - 45	15,0	Price on enquiry
0897 2000	4.000	10 - 50	20,0	





Horizontal lifting clamps

Sheet loading hooks

DoLast

Do 90 KS horizontal lifting clamp with protective coating

Lifting clamp for use in pairs for horizontal transport of plates and sheets with sensitive surface. The pressing plate has a protective coating.

Item no.	Carrying cap. kg	Grab range mm	Weight approx. kg	Price each
0889 0925	125	0 - 30	3,0	Price on enquiry
0889 0930	250	0 - 30	5,0	
0889 1040	500	0 - 40	7,0	
0889 1150	1.250	0 - 50	10,0	



Do 90 THK horizontal lifting clamp for thin sheets

The Do 90 THK lifting clamp is suitable for use in pairs, in particular, for horizontal transport of thin sheets with strong hanging.

Item no.	Carrying cap. per pair/kg	Grab width mm	Weight approx. kg	Price each
0845 1116	750	0 - 25	1,7	Price on enquiry
0845 1117	1.500	0 - 35	3,2	
0845 1119	3.000	0 - 35	5,5	
0845 1118	4.500	0 - 45	8,6	
0845 1113	6.000	0 - 60	11,6	
0845 1114	9.000	0 - 60	17,8	

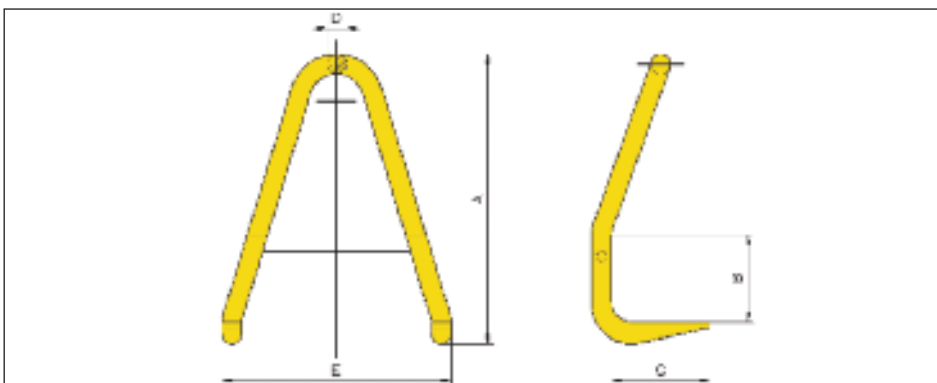
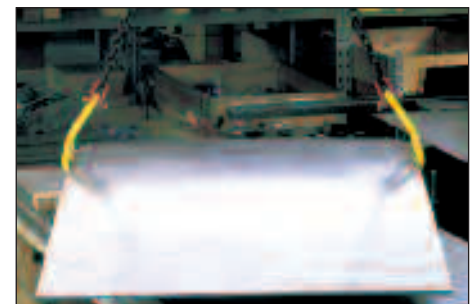
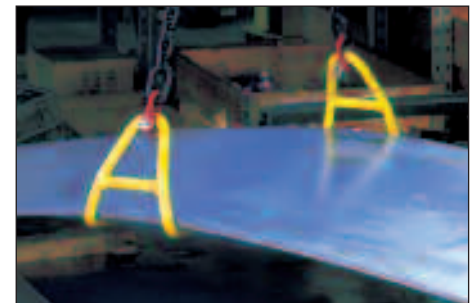


Do 90 BVH Sheet loading hook for horizontal sheet transportation

The BVH sheet loading hooks are used for horizontal transport of sheet parcels. They are used in pairs with chain or rope suspensions in operation close to the ground.

The highly solid hooks have a corrugated surface.

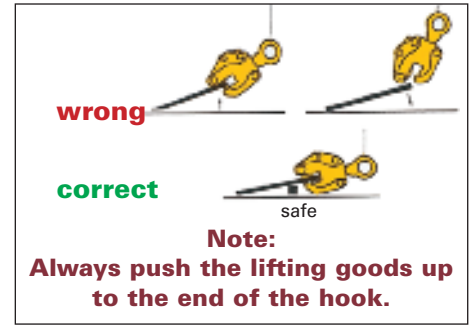
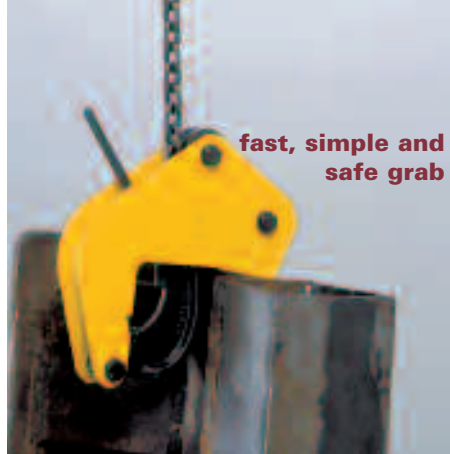
Item no.	Load./unit t	approx. dimensions in mm					Weight kg	Price each
		A	B	C	D	E		
0899 6005	500	180	50	80	18	150	1,3	Price on enquiry
0899 6010	1.000	210	60	95	20	170	1,8	
0899 6015	1.500	240	70	105	22	200	2,2	
0899 6020	2.000	280	80	115	26	220	3,3	
0899 6025	2.500	340	100	120	32	270	6,5	
0899 6030	3.000	400	120	140	32	320	8,3	
0899 6040	4.000	530	160	180	36	420	13,5	
0899 6050	5.000	660	200	210	40	520	19,0	
0899 6060	6.000	800	250	250	50	640	33,0	
0899 6075	7.500	980	300	300	60	760	60,0	



Lifting clamps

Screw clamps

DoLast



Do 83 lifting clamp with simple opener

The lifting clamp lifts objects which fit into grab range. Fast, simple and safe. The large grab range allows usage for the most varied transport tasks in steel and machine construction for charging tool machines and construction installations as well as for welding and installing all kinds of components.

Due to the spring tension of the clamp jaws, the transport goods are also held if the lifting gear is released.

Lifting clamps up to 2.0t carrying capacity are equipped with round element chains and the grabbers with higher carrying capacity with roll chains (fleyer chains).

Item no.	Carrying cap. kg	max. Grab range	Grab-width mm	Weight approx. kg	Price each
0882 1003	350	100	0 - 100	9,0	Price on enquiry
0882 2003	350	200	90 - 200	14,0	
0882 1007	750	100	0 - 100	9,0	
0882 2007	750	200	90 - 200	15,0	
0882 1012	1.250	100	0 - 100	15,0	
0882 2012	1.250	200	90 - 200	26,0	
0882 1020	2.000	100	0 - 100	22,0	
0882 2020	2.000	200	90 - 200	30,0	
0882 9030	3.000	90	5 - 90	25,5	
0882 9050	5.000	90	5 - 90	30,0	
0882 1050	5.000	170	80 - 170	44,0	
0882 1100	10.000	100	0 - 100	70,0	
0882 2100	10.000	200	100 - 200	101,0	

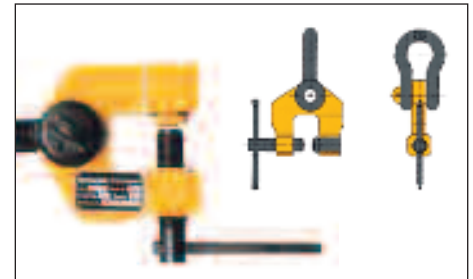
Also available with protective coating for a surcharge.



Do 82 TSH screw clamp with suspension shackle for verticle + horizontal drag

The screw clamp usable in two directions has great grab ranges and therefore offers multiple usage options.

Item no.	Carrying cap. kg	Grab width mm	Weight approx. kg	Price each
0830 1500	1.500	0 - 32	7,4	Price on enquiry
0830 3000	3.000	0 - 50	11,4	
0830 5001	5.000	0 - 80	27,6	



Do 82 K universal screw clamp

Screw clamp to lift, pull and turn by 180° sheets, beams and steel constructions. The swivelling, bulk pressure plate creates high clamping through a wedge effect.

Item no.	Carrying cap. kg	Grab width mm	Weight approx. kg	Price each
0830 0205	500	0 - 19	4	Price on enquiry
0830 1000	1.000	0 - 30	5	
0830 1502	1.500	0 - 35	8	
0830 2000	2.000	0 - 100	9	
0830 0230	3.000	0 - 50	10	
0890 0250	5.000	0 - 80	20	
0890 0260	6.000	0 - 65	23	



Do 82 KS screw clamp with swiveling suspension eye

Screw clamp with laterally swivelling suspension eye. Variant Do 82 K is especially suitable for clinching sheets on chamfering machines.

Item no.	Carrying cap. kg	Grab width mm	Weight approx. kg	Price each
0890 0310	1.000	0 - 30	6	Price on enquiry
0890 0315	1.500	0 - 35	10	
0890 0330	3.000	0 - 50	12	
0890 0360	6.000	0 - 65	25	





Screw clamps Lifting clamps

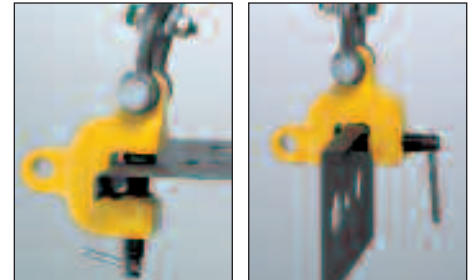
DoLast

Do 82 TSZ screw clamp for three-dimensional drag direction

The Do 82 TSZ screw clamp can be loaded in all drag directions. It offers many areas of application in the transport of steel components, for feeding processing machines, chamfering sheets, etc.

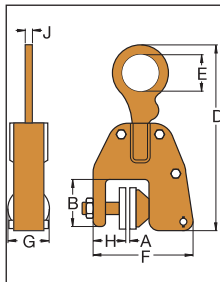
The surface hardness of the transport good must not exceed HRC 30.

Item no.	Carrying cap. kg	Grab width mm	weight approx. kg	Price each
0830 0510	500	0 - 28	2,3	Price on enquiry
0830 1510	1.500	0 - 35	5,6	
0830 3010	3.000	0 - 35	8,8	
0830 5010	5.000	0 - 40	16,2	
0830 7510	7.500	0 - 40	20,9	



Do 88 lifting clamp with position screw

Vertical turning and lifting clamp, can be locked in closed position. Suitable for lifting and 90° turning of surface-sensitive materials (stainless steel, plastic, chipboard, etc.). The specially coated grab jaws can be adjusted continuously with a position screw.



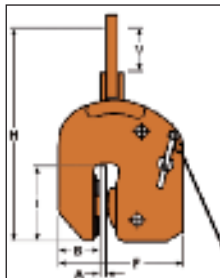
Item no.	Carrying capacity in kg	Hook width A in mm	Dimensions in mm							Weight approx. kg	Price each
			B	D	E	F	G	H	J		
0824 5002	300	0 - 30	75	290	60	200	66	70	13	4,7	on enquiry
0824 5003	300	6 - 45	75	290	60	200	66	70	13	4,5	on enquiry



For surface-sensitive materials

Do 24/K lifting clamp for sheet piles with remote unlocking

The safety clamp for sheet piles is suitable to turn sheet piles by 90°. It has remote unlocking which means that the lifting clamp can be unlocked in height using a cable winch.



Item no.	Carrying capacity in kg	approx. dimensions in mm							Weight approx. kg	Price each
		A	B	F	H	I	V			
0888 1125	2.500	1 - 12	65	200	350	120	85	8	Price on enquiry	
0888 1150	5.000	1 - 20	85	250	500	155	100	18		
0888 1170	7.000	1 - 25	95	280	580	160	120	25		
0888 1110	10.000	1 - 25	110	330	650	160	120	35		

Lifting clamps Warehouse box grab

DoLast



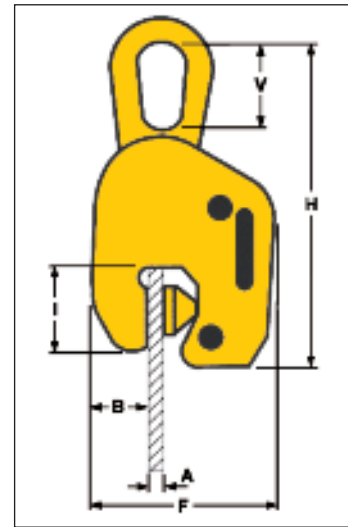
Do 80 G Lifting clamps with smooth grab plate

Lifting clamp and smooth, large pressing plate for sheets with sensitive surface for vertical transport and for turning by 90°. This lifting clamp has a high pressing force and works by force-fit. The clamping force is designed for a minimum friction factor of 0.25 μ with double safety. From a carrying capacity of 2,500 kg on, the grab range can be

adjusted with a position screw to increase the pressure. The surfaces of the sheets to be transported must be dry, clean and free from lubricants.

^{*)} with pre-adjustment
^{**)} for wood and chipboard

Item no.	Carrying capacity in kg	approx. dimensions in mm						Weight approx. kg/each	Price each
		A	B	F	H	I	V		
0896 0250 ^{**)}	250	10 - 50	50	230	330	115	60	8	Price on enquiry
0896 0510	500	0 - 10	70	210	250	80	60	7	
0890 0106 ^{**)}	500	10 - 50	60	240	350	115	75	10	
0896 1015	1.000	0 - 15	75	250	300	90	75	9	
0890 0115	1.500	0 - 20	100	280	320	110	75	12	
0890 0125 ^{*)}	2.500	0 - 30	120	300	400	130	85	22	
0890 0150 ^{*)}	5.000	5 - 50	150	420	500	140	90	45	

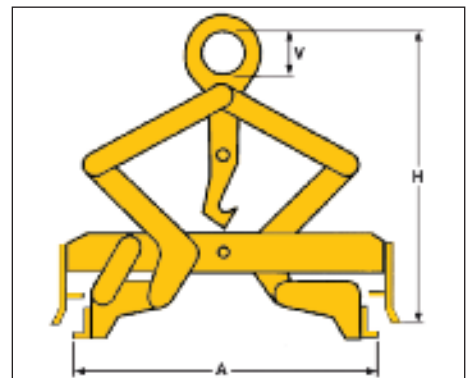


Warehouse box grab Do 85 a (exterior grab) + Do 85 i (interior grab)

Warehouse box grab for loading warehouse boxes. **Type Do 85 a** exterior and **type Do 85 i** interior grab. The grab process is performed for type **Do 85 a** in the box bead and for **type Do 85 i** below the

bead. To prevent the grabs from opening when knocking or placing the box, the grab arms are pre-tensioned via a drag spring. All grabs are equipped with a keep-open lever.

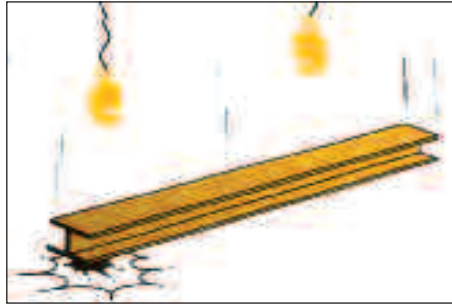
Item no.	Carrying capacity in kg	Grab width in mm	dimensions approx.			Weight approx. kg	Price each	
			A	H	V			
Do 85 a								
0881 6201	100	300	380	320	65	6	Price on enquiry	
0881 6001	100	450	530	320	65	6		
0881 6002	200	300	380	320	65	6		
0881 6202	200	450	530	320	65	6		
Do 85 i								
0881 6101	100	300	320	320	65	8		
0881 6104	100	450	470	320	65	8		
0881 6102	200	300	320	320	65	8		
0881 6302	200	450	470	320	65	8		



... for horizontal transportation of profile beams



For safe transportation, the beam must be fully inserted into the end of the clamp hook.



Lifting clamps Lifting grabs

DoLast

Do 12 Lifting clamp

Lockable in open or closed position. Especially suitable for horizontal transportation. The suspension eye is in the beam centre of gravity. Universal use, also in pairs on the front of steel beams. Also supplied with gimbal suspension: this version is especially suitable for lifting steel constructions in pairs.

Item no.	Carrying capacity kg	Grab width mm	Weight approx. kg	Price each
0814 1510	1.000	5 - 20	8,0	Price on enquiry
0814 3025	2.500	8 - 30	13,0	
0814 5050	5.000	10 - 50	28,0	



Gimbal suspension - on request -



Do 13 lifting clamp for vertical flange beams

Ideal for the transportation of T, double T and U beams with vertical flange girder. Due to their high pressing pressure, this clamp is perfectly suited to turn bearers.

Item no.	Carrying cap. kg	Grab width mm	Weight approx. kg	Price each
0815 1510	1.000	5 - 15	6,0	o.e.
0815 2725	2.500	10 - 27	10,0	o.e.



Do 13 L lifting clamp for beam transport and storage

Is especially suitable for horizontal transport, storing and outhousing of beams.

Item no.	Carrying cap. kg	Grab width mm	f. carrying width mm	Weight approx. kg	Price each
0888 0515	500	5-15	80-160	5,0	o.e.
0888 1025	1.000	5-25	100-220	7,0	o.e.
0888 1028	2.500	5-28	200-380	15,0	o.e.



Do 13 i internal grabs

As internal clamp for broad flange beams to be piled into each other and at close range.

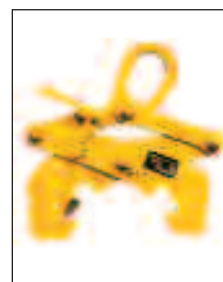
Item no.	Carrying cap. kg	Grab width mm	Weight approx. kg	Price each
0898 1905	500	100 - 120	3,0	Price on enquiry
0898 1910	1.000	120 - 160	6,0	
0898 1915	1.500	140 - 180	8,0	
0898 1930	3.000	180 - 220	12,0	



Do 14 profile steel grabs

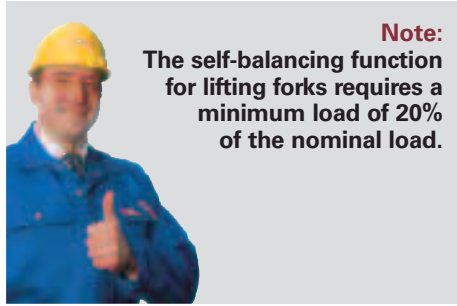
The profile steel grabs are ideal for transporting double flange profiles. An especially solid model with a keep-open lever.

Item no.	Carrying cap. kg	Grab width mm	Weight approx. kg	Price each
0816 1410	1.000	80 - 150	15,0	Price on enquiry
0816 1425	2.500	80 - 15	22,0	
0816 3025	2.500	100 - 300	35,0	
0816 1450	5.000	100 - 150	35,0	
0816 3050	5.000	100 - 300	50,0	



Lifting forks

DoLast



Note:
The self-balancing function for lifting forks requires a minimum load of 20% of the nominal load.



Do 502 lifting fork with adjustable pin, height adjustable and automatic weight balance

Item No.	carrying capacity kg	pin length mm	clear height mm	weight kg	Price each
0878 7010	1.000	1.000	1.300	105	Price on enquiry
0878 7015	1.500	1.000	1.300	105	
0878 7020	2.000	1.000	1.300	159	
0878 7025	2.500	1.000	1.300	179	
0878 7030	3.000	1.000	1.300	179	

Do 520 lifting fork with adjustable pin, height adjustable and manual weight balancing

Item No.	carrying capacity kg	pin length mm	clear height mm	weight kg	Price each
0878 5210	1.000	1.000	1.300-2.000	125	Price on enquiry
0878 5216	1.500	1.000	1.300-2.000	125	
0878 5230	2.000	1.000	1.300-2.000	194	
0878 5225	2.500	1.000	1.300-2.000	214	
0878 5231	3.000	1.000	1.300-2.000	214	



Do 501 lifting fork with adjustable pin and automatic weight balance

Item No.	carrying capacity kg	pin length mm	clear height mm	weight kg	Price each
0878 5010	200-1.000	1.000	1.300	105	Price on enquiry
0878 5016	300-1.500	1.000	1.300	105	
0878 5020	400-2.000	1.000	1.300	154	
0878 5025	500-2.500	1.000	1.300	154	
0878 5030	600-3.000	1.000	1.300	163	

Do 502 lifting fork with adjustable pin, height adjustable and automatic weight balance

Item No.	carrying capacity kg	pin length mm	clear height mm	weight kg	Price each
0878 4011	200-1.000	1.000	1.300-2.000	116	Price on enquiry
0878 4016	300-1.500	1.000	1.300-2.000	116	
0878 4021	400-2.000	1.000	1.300-2.000	190	
0878 4025	500-2.500	1.000	1.300-2.000	190	
0878 4031	600-3.000	1.000	1.300-2.000	198	



Do 510 lifting fork, pin length 800 mm, with rigid pin and manual weight balance

Item No.	carrying capacity kg	pin length mm	clear height mm	weight kg	Price each
0878 7107	700	800	1.000	56	Price on enquiry
0878 7109	900	800	1.000	56	
0878 7112	1.200	800	1.000	58	

Do 510 lifting fork, pin length 1.100 mm, with rigid pin and manual weight balance

Item No.	carrying capacity kg	pin length mm	clear height mm	weight kg	Price each
0878 5107	700	1.100	1.000	61	Price on enquiry
0878 5109	900	1.100	1.000	65	
0878 5114	1.200	1.100	1.000	65	



Do 530 lifting fork with retaining device



These lifting forks are available as special designs

Do 500 lifting fork with balancing weight (counter weight) and rigid pin



Balancers

the third hand at the work-
place

DoLast



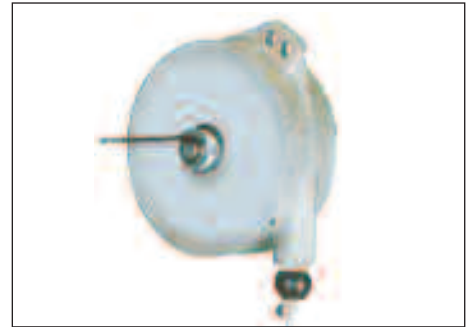
Applications:
For electric and
pneumatic tools,
grinders, polishers,
impact wrenches,
riveting machines,
spot-welding grabs,
etc.

Do 9311 balancer

Rope length 1,600 mm

Simple and stable design made from cast aluminium. Lifting force is adjustable. Steel wire rope, turning hook and self-lubricating sockets, adjustable upwards lifting. Additional safety suspension, electrically insulated (against leakage currents).

Item no.	Carrying cap. kg	Rope length m	Weight approx. kg	Price each
0819 3110	0,4 - 1	1,6	0,6	Price on enquiry
0819 3111	1 - 2	1,6	0,6	
0819 3112	2 - 3	1,6	0,7	
0819 3201	1 - 2,5	2,0	2,0	
0819 3202	2 - 4	2,0	2,0	
0819 3204	4 - 6	2,0	2,3	
0819 3206	6 - 8	2,0	2,5	



Do 9354 balancer medium design

Rope length 2,000 mm

Stable variant made from cast aluminium, lifting force adjustable, steel wire rope, low friction rope lead, snap hook.

Adjustable upwards lifting. Fall lock prevents the load from falling when the spring breaks. Additional safety suspension, electrically insulated (against leakage currents).

Item no.	Carrying cap. kg	Rope length m	Weight approx. kg	Price each
0819 5404	4 - 7	2,0	5,0	Price on enquiry
0819 5407	7 - 10	2,0	5,5	
0819 5410	10 - 14	2,0	5,5	
0819 5414	14 - 18	2,0	6,5	
0819 5418	18 - 22	2,0	6,0	
0819 5422	22 - 25	2,0	6,6	



Do 9361 balancer heavy design

Rope length 2,000 mm

Stable and protected mono block design made from cast aluminium. Top suspension with swivelling snap hook.

Low friction rope lead, ball-bearing cone bobbin. Precise setting of the load area using an endless screw. Wire rope insulated against leakage currents. Fall safety prevents the load from falling when the spring breaks. Blocking device to establish and unlock the load at a desired height.

Item no.	Carrying cap. kg	Rope length m	Weight approx. kg	Price each
0819 3610	10 - 15	2,0	10,3	Price on enquiry
0819 3615	15 - 20	2,0	10,6	
0819 3620	20 - 25	2,0	11,2	
0819 3625	25 - 30	2,0	11,5	
0819 3630	30 - 35	2,0	11,8	
0819 3635	35 - 45	2,0	12,4	
0819 3645	45 - 55	2,0	12,5	
0819 3655	55 - 65	2,0	13,6	
0819 3665	65 - 75	2,0	14,5	



Other carrying capacities and rope lengths available – Price on enquiry!

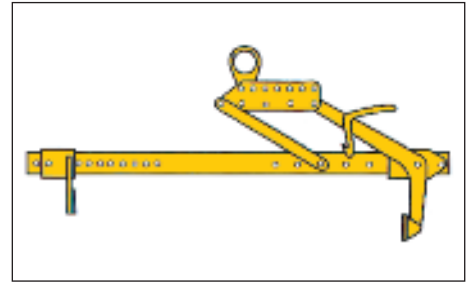
Grabs

DoLast



All grabs can be fitted with opening and closing automatics (step switching system) on request.

Grab jaws can be equipped with various shapes and with various coatings.



Do 600 profile grab

Adjustable profile grabs with very large spanning range. The respective desired grab range and centre of gravity surface can be set using socket pins. Low construction height. Design with keep-open lever.

The grab jaws are equipped with a protective coating.

Item no.	Carrying cap. kg	Grab width mm	Weight aprox. kg	Price each
0880 6000	250	200 - 650	25	Price on enquiry
0880 6001	250	200 - 800	28	
0880 6002	500	200 - 800	35	
0880 6003	500	200 - 1.000	40	
0880 6024	1.000	200 - 1.000	65	



Do 610 round profile grab

For horizontal transport of round bars, pipes, etc. The grabs are equipped with a keep-open device to place them open above the goods.

Also available with hull and protective coating – prices on request.

Item no.	Carrying cap. kg	Grab width mm	Weight aprox. kg	Price each
0880 6100	250	40 - 150	6	Price on enquiry
0880 6101	250	60 - 250	11	
0880 6102	500	40 - 200	15	
0880 6103	500	100 - 350	25	
0880 6104	500	200 - 500	35	
0880 6106	1.000	100 - 350	35	
0880 6107	1.000	200 - 500	50	
0880 6110	2.500	100 - 350	60	
0880 6111	2.500	200 - 500	72	



Do 620 square profile grab

Grab jaws with protective coating. Especially suitable for transporting goods made from steel, concrete, stone, marble, wood and other solid materials.

Note: The transport goods must be free from oil and grease. Designed for a friction rate $\mu > 0.75$. For a smaller friction rate, the pressing force of the grabs must be increased with constructive changes. Please enquire.

Item no.	Carrying cap. kg	Grab width mm	Weight aprox. kg	Price each
0880 6200	250	20 - 60	7	Price on enquiry
0880 6201	250	50 - 125	10	
0880 6202	250	150 - 260	14	
0880 6203	500	50 - 125	12	
0880 6204	500	115 - 260	16	
0880 6205	500	250 - 500	22	
0880 6206	1.000	150 - 260	28	
0880 6217	1.000	250 - 500	40	
0880 6208	1.000	480 - 750	60	
0880 6239	2.500	150 - 300	70	
0880 6240	2.500	250 - 500	90	



Do 630 interior grab

Interior grabs with parallel jaw lead for wire, pipe or sheet coils. Please state intended use so the grab jaws can be adjusted. Coils must be banded.

Item no.	Carrying cap. kg	Grab width mm	Weight aprox. kg	Price each
0880 6340	1.000	400 - 500	65	Price on enquiry
0880 6341	2.500	400 - 500	130	
0880 6342	2.500	500 - 600	150	
0880 6343	5.000	400 - 500	220	
0880 6344	5.000	500 - 600	240	





Intermediate sizes with higher carrying capacity and changed grab ranges are also available.

Please enquire.

Do 650 turning grab

Suitable for standing up, turning or rotating. The jaw graps are stored swivelling with 90° lock.

Item no.	Carrying cap. kg	Grab width mm	Weight aprox. kg	Price each
0880 6500	125	150 - 250	20	Price on enquiry
0880 6511	125	250 - 350	24	
0880 6502	250	150 - 300	26	
0880 6513	250	300 - 450	28	
0880 6504	500	300 - 450	40	
0880 6505	500	450 - 600	45	
0880 6506	1.000	450 - 600	55	
0880 6507	1.000	650 - 800	65	



Do 660 bale and box grab

Single grab which presses into the wood or bale and securely holds the goods. It is especially designed for boxes, planks, special bales of all kind.

Item no.	Carrying cap. kg	Grab width mm	Weight aprox. kg	Price each
0880 7300	250	250 - 500	12	Price on enquiry
0880 7301	500	250 - 500	15	
0880 7302	500	300 - 650	18	
0880 7303	1.000	600-1.000	38	
0880 7305	1.000	800-1.200	45	



Do 670 cardbox grab

With especially large-surface and thin grab jaws with profile rubber coating ensuring large pressure distribution. Especially suitable for cardboard boxes standing very close to one another.

Item no.	Carrying cap. kg	Grab width mm	Weight aprox. kg	Price each
0880 6700	125	100 - 300	15	Price on enquiry
0880 6701	125	200 - 400	17	
0880 6702	125	300 - 500	18	
0880 6703	125	400 - 600	19	
0880 6704	125	500 - 700	20	
0880 6705	125	600 - 800	20	
0880 6706	125	700 - 900	22	
0880 6707	125	800 - 1.000	23	



Do 680 log grab

With great grab width and small exterior dimensions to transport logs of wood. From a carrying capacity of 2.5 t on, the grab peaks are exchangeable as replacement parts.

Item no.	Carrying cap. kg	Grab width mm	Weight aprox. kg	Price each
0880 6800	500	200 - 500	12	Price on enquiry
0880 6801	1.000	300 - 800	23	
0880 6802	2.500	300 - 800	60	
0880 6803	2.500	400 - 1.000	85	
0880 6804	5.000	500 - 1.000	130	



Do 690 rail grab

To transport vignol rails of the types S and UIC as well as crane rails; especially stable design for rails with asymmetrical profile available on request.

Item no.	Carrying cap. kg	Grab width mm	Weight aprox. kg	Price each
0880 6900	1.000	15 - 85	15	Price on enquiry
0816 0920	2.000	15 - 85	20	
0816 0940	4.000	15 - 95	25	



Forklift truck transports

DoLast



Quickly convert your forklift truck into a safe lifting device.

Please observe the carrying capacity of your forklift truck.

Do 115 KT forklift truck telescope loader

With the DoLast telescope loader, you can convert every forklift truck into a mobile crane. This allows you to perform numerous loading and unloading tasks as well as in-house and external transports. The telescope loader is pushed across the forklift truck pins and secured against falling off with a chain.

Note: The load centre of gravity moves to the front and top. Either we or the forklift truck manufacturer can produce a combination type plate.

Item no.	Carrying cap. for unloading mm	Weight approx. kg	Price each
0839 0250	710-1.290	2.500	175
	1.590	1.800	Price on enquiry
	2.055	1.200	
	2.655	850	
	3.055	700	
	3.655	560	

Also available with 5.0 t carrying capacity



Do 115 KTH forklift truck telescope loader, height adjustable

With the 115 KTH forklift truck telescope loader, you can convert every forklift truck into a mobile crane. The 115 KTH forklift truck telescope loader is pushed across the forklift truck pins like the Do 115 KTH. The interior telescope part can be pulled out 3-fold. The 115 KTH telescope loader can be adjusted in height 3-fold. Every position is secured with a

socket pin. The 115 KTH telescope loader is secured from falling down with a chain. The basic device is 2200 mm long and consists of a steel construction. The surface is orange (RAL 2000). Also available in galvanised EN ISO 1461, please enquire.

Item no.	Type	Carrying cap. kg	Fork distance mm	Fork section mm	Weight kg	Price each
0839 0025	2,5	2.500	540	84 x 184	218	on enquiry
0839 0500	5,0	5.000	550	84 x 184	250	on enquiry



Do 113 forklift hook double

With lifting beam leading load distribution over two forklift pins – with rotating and tilting swivel hook – arrestable on both fork pins on the truck.

Item no.	Carrying capacity kg	Fitting shoes interior dim. mm	Working width exterior shoe mm	Weight in kg	Price each
0811 3910	1.000	120 x 60	500	10	Price on enquiry
0899 0190	2.000	140 x 60	600	15	
0811 3932	3.200	160 x 80	600	20	
0811 3950	5.000	200 x 100	800	32	

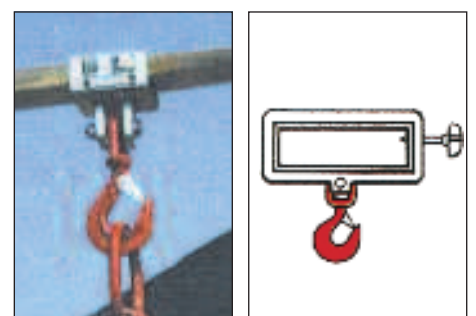
For an even load distribution, always place the pins in the centre before use.



Do 110 forklift hook single

Practical tool in light design – with rotating and tilting swivel hook – arrestable on the fork pins on the truck.

Item no.	Carrying cap. kg	Fitting shoe interior dim. mm	Weight approx. kg	Price each
0899 0094	1.000	140 x 60	5	Price on enquiry
0899 0090	2.000	140 x 60	7	
0899 0093	3.200	140 x 60	8	
0899 0095	5.000	160 x 80	10	





Working platform Dump containers

DoLast

Do 50 MB working platform

Model	Item no.	Weight approx. kg	Price each
50 MB*	0899 0131	120	on enquiry
50 MB/K**	0877 9913	200	on enquiry

* for forklift truck
** for crane

For crane or forklift trucks

The DoLast working platform is tested by the Bau professional organisation and complies with BGR 500.

Available with 2 steering and 2 fixed rollers on request, subject to a surcharge.

Note:
Please observe the special rules for transporting people.

The permissible total weight of the working platform is 500 kg. Two people may be transported. The maximum payload is 300 kg. It must also be observed that the minimum carrying capacity of the forklift truck or crane must be 750 kg.

TÜV-approved as per UVV.



MB/K

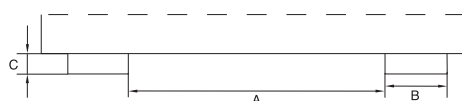


Do GU dump container

Item no.	Type	capacity approx. (m ³)	Dimensions L x W x H mm	Carrying capacity kg	Weight kg	Price each
0877 9930	300	0,30	1.440 x 680 x 580	750	108	Price on enquiry
0877 9950	500	0,50	1.440 x 780 x 680	1.000	121	
0877 9975	750	0,75	1.440 x 1.280 x 680	1.000	156	
0877 9910	1000	1,00	1.640 x 1.280 x 780	1.500	184	
0877 9915	1500	1,50	1.640 x 1.280 x 1.090	1.500	215	

Variant: 3 mm batch with surrounding edge profile, solid basic frame with reel up bags and securing against inadvertent sliding off or dumping. Dumping possible at every height using a cable winch from the truck seat.

Varnished surface, optionally in orange (RAL 2000) or blue (RAL 5012).



Other dimensions available

Reel up bag interior dimensions

Type	A	B	C
300	12	200	60
500	150	200	60
750-1500	495	200	60



Reel up bags interior dimensions see table to the left.

Barrel transports

DoLast



DoFlex barrel tilting frame Do HK

DoFlex barrel tilting frame

With the DoFlex barrel tilting frame, you can, for instance, transport, tilt, turn or place plastic barrels with up to 120 l. The tilting frame is additionally secured against slipping. It is available with a crank handle or with an endless chain. The rotation range is 360°. With the reel-up bags on the stable

basic frame, transportation becomes even easier.

Model varnished in orange (RAL 2000), also available in blue (Ral 5012) or galvanised EN ISO 1461. Prism with tension belt and double-lead screw operation, adoption for forklift truck and cranes.

Item no.	Carrying cap. kg	Dimensions L x W x H mm	Weight (kg)	Rotation range (degrees)	Tilting (with)	Fork distance (mm)	Fork section (mm)	Price p. each
0877 9920* ¹	300	1.000 x 1.000 x 430	70	360	handle	650	150 x 60	on enquiry
0877 9921* ²	300	1.000 x 1.000 x 430	75	360	chain	650	150 x 60	on enquiry

*¹ Type Flex-HK

*² Type Flex-K

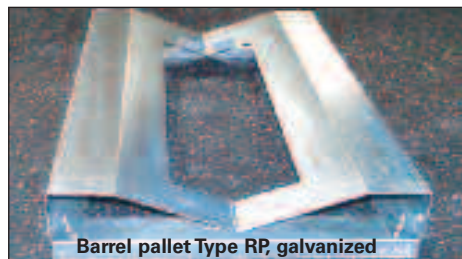


Do K

DoRP Barrel pallet, galvanized

Item no.	Carrying cap. kg	Dimensions L x W x H mm	rotation range (degrees)	Fork distance mm	Fork section mm	Weight kg	Price each
0877 9922* ³	300	1.114 x 580 x 140	360	300	130 x 65	16	on enquiry

*³ Typ RP



Barrel pallet Type RP, galvanized

Do 116 FK forklift barrel clamp

The barrel clamp can be used with any forklift truck without special devices. It is secured with a serial chain. This tried and tested barrel clamp is designed for lifting and transport of barrels with a contents of 200 litres and a diameter of 560 mm.

Model varnished in orange (RAL 2000) or galvanized, stainless steel on request. Special variants of the barrel clamp are possible, such as a direct annex or attachment on the forklift truck.

Item no.	Barrel number	Bearing cap. kg	Fork distance mm	Fork section mm	Weight kg	Price each
0811 6907	1	500	260	150 x 65	67	on enquiry
0811 6905	2	1.000	260	150 x 65	99	on enquiry



Barrel suspension made from woven web slings including lashing strap (PES)

To transport barrels with up to 0.7 m ϕ . The housing consists of two or alternatively three load-carrying strands with

strengthened end slings and a lashing strap for barrel fixation.

Item no.	Carrying cap. kg	Number of strands	Price each
0515 9902	500	2	on enquiry
0515 9903	500	3	on enquiry





The Dolezych specialists for secure lifting and transporting are available to you at all times with help and advice (even on-site).

Do 300 S barrel clamp

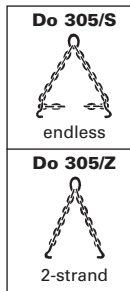
To transport standing barrels and tons with bead. Simple lever movements quickly and securely tighten the collar. Setting of the grab width via the adjusting screw.



Item no.	Carrying cap. in kg	Barrel diameter in mm	Price each
0870 0800	800	560 - 610	on enquiry

Do 305 barrel chain suspension

Item no.	Carrying capacity in kg	Price each
Do 305 / S with endless chain		
0809 0250	900	on enquiry
Do 305 / Z with two-strand		
0809 0251	900	on enquiry
Do 305 / D with rope and chain		
0809 0248	900	on enquiry



Do 301 S-TFK barrel clamping ring

The low weight and the small dimensions of the barrel clamping ring make it possible to move densely stacked barrels. The hanger fixtures correlate with the centre of gravity of the barrels during transport.



Item no.	Carrying cap. in kg	Price each
0809 0702	500	on enquiry

Do 302 S/PF barrel claw

For lying, individually stable metal barrels with bead. For an additional charge also available with keep-open lever or step switching mechanism.



Item no.	Carrying capacity in kg	Barrel length in mm	Weight approx. kg	Price each
0809 0401	500	650 - 950	8	on enquiry

Do 304 S/TFA-D barrel grabs with turning device

Those grabs are used to transport the barrels, to pick them up, as well as to turn and empty them. In order to turn a barrel easily, it must be picked up in the centre of gravity.



Item no.	Carrying cap. in kg	Grab range ϕ in mm	Price each
0809 8500	300	400 - 600	on enquiry

Do 304 S/TFA barrel grabs

To transport standing barrels. This device grabs standing barrels laterally and places them in the same transport position. The grab jaws are equipped with a hard rubber coating for force-fit load absorption.



Item no.	Carrying cap. in kg	Grab range ϕ in mm	Price each
0809 8501	300	400 - 600	on enquiry

Do 306 S + Z barrel webbing suspension

With reel barrel hook, ideal for transporting lying and standing, individually stable barrels with top and bead. Also suitable for emptying with the endless reel design.



Item no.	Carrying capacity in kg	Price each
Do 306 S with endless reel		
0809 9015	500	on enquiry
Do 306 Z with two-strand reel		
0899 1399	500	on enquiry

Do 307 S + K barrel grab

Suitable for standing, individually stable barrels with top and bead. Ideal for use with close barrels.



Item no.	Carrying capacity in kg	For barrel ϕ in mm	Weight approx. kg	Price each
Do 307 S - H metal barrels				
0809 0307	500	390 - 650	4,7	on enquiry
Do 307 K plastic barrels				
0809 0306	500	390 - 650	4,7	on enquiry

Electric lifting magnets

DoLast



Operating instructions and test certificate are always included in the delivery.



Do 5P/180

Do 5/25 - 360 battery load lifting magnet with remote control

Item No.	Do	max. carrying cap. flat material kg	max. carrying cap. round material kg	adhesive surface mm	weight kg	Price each
0803 0006	5/25	1.350	-	272 x 242	60	Price on enquiry
0803 0004	5/55	2.500	-	400 x 242	72	
0803 0005	5/80	3.600	-	1.050 x 240	180	
0803 0009	5/110	5.000	-	1.200 x 300	203	
0803 0051	5P/180	1.800	1.100	470 x 242	167	
0803 0052	5P/360	3.600	2.200	760 x 262	420	

Do 5/25 - 110

These models are specially designed for the lifting of heavy and thick plates as well as whole blocks. An optimal lifting capacity is achieved at a material thickness of 5mm or more given a clean and even material surface. The model 5/110 is equipped with two 5/55 mobile magnet feet for the lifting of bulky load.

Do 5/80

This model was specially designed for the lifting of metal sheets and plates starting at a material thickness of 3 mm. Given a clean and even material surface this magnet is able to lift a 3mm thick metal sheet of the size 2,500 x 1,800mm and even a 25mm thick metal plate of the size 6 x 3m! The strip-off system enables the abandoning of excessive metal plates that have been lifted up the stack.

Do 5P/180 - 360

The special magnetic pole shoes of this two-poles load lifting magnet enables

the lifting of flat and round material as well as shaped material like carriers or angle brackets. The optimal lifting capacity is achieved at a material thickness of 50mm or more. The sound magnetic field of these models guarantees a high lifting capacity even in the case of a rough and uneven material surface.

- great lifting performance, low own weight, small dimensions
- independent of the power grid, therefore usable everywhere
- the power source is a 12 volt car battery
- built-in charging unit for battery with fuse against overloading
- eight-hour operation during the day, twelve-hour charging time at night
- double, (staged) acoustic and visual alarm system at possible magnet power reduction
- solid steel sheet housing prevents damage to the battery and charging unit with rough usage.



Do 5/55



Do 5P/360



Do 5/80

Do 20 - 24 electric load lifting magnet – Do 27 - 29 with lifting beam

An ideal securing power is given at a plate thickness of approx. 30 mm and more. For thinner plates and varnished or coated surfaces, the securing power is reduced. For material thickness of less than 5 mm, special action must be taken, e.g. interim layers, so that no more plates are lifted at the same time.

All electric lifting magnets are supplied with on/off switches and are designed as a default for a connection voltage of 230 V.

Item no.	Do	rec. lifting force kg	Adhesive surface mm	Weight approx. kg	Price each
0803 0020	20	500	158 ø	13	Price on enquiry
0803 0021	21	700	178 ø	17	
0803 0022	22	1.200	245 ø	35	
0803 0023	23	500	205 x 100	13	
0803 0024	24	700	250 x 125	19	
0803 0027	27	1.000	2 x 158 ø	30	
0803 0028	28	1.400	2 x 178 ø	40	
0803 0029	29	2.400	2 x 245 ø	80	



Do 20 - 24



Do 27 - 29 with lifting beam



Unnecessary standing under form-fit lifting gear, e.g. crane hook/hook chains, is not allowed. It is absolutely forbidden to stand under magnet, vacuum and friction force lifters. The relevant provisions as per UVV and DIN EN 13155 apply.



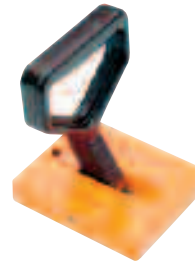
Permanent Lifting magnets

DoLast

Do MK 120 + 170 plate magnet with handle

Item no.	Do	recommended max. lifting force kg	drag (vertical) kg	Adhesive surface mm	Weight approx. kg	Price each
0803 0012	120	120	70	140 x 84	1,4	Price on enquiry
0803 0017	170	170	100	140 x 116	1,8	
0803 0071	250	250	100	290 x 125	7,2	
0803 0053	300	300	125	290 x 180	10,5	

When working with sheet piles, only one sheet can be lifted at a time. For fast transport in tool and machine construction, fast transports in tools and machine engineering, flame cutting ...



Do MK 250 + 300 plate magnet with crane eye



Do 25 hand magnet

Item No.	recommended lifting force kg	adhesive surface mm	weight approx. kg	Price each
0803 0025	25	40 x 26	0,1	on enquiry

With leather straps for unloading and gripping thin sheet plates and sheet parts from 0.3 to approx. 2 mm thickness. Lifting force 25 kg.



Do 2 BaxX permanent load lifting magnet

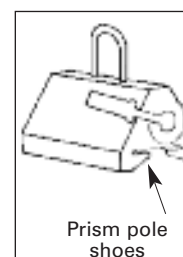
Item no.	recommended lifting force		Test force in kg	Assumption for round material in mm	Weight in kg	Price each
	Flat material kg	Round material kg				
0803 0161	125	65	375	ø 60	3	Price on enquiry
0803 0162	250	180	750	ø 60 - 180	10	
0803 0163	500	320	1.500	ø 60 - 180	20	
0803 0164	1.000	600	3.000	ø 60 - 180	40	
0803 0165	2.000	1.200	6.000	ø 60 - 180	80	

- reinforced permanent magnet system, equipped with high-energy magnets Neodym (NdFeB), ensures very high operation security
- usable everywhere, as no power connection is required
- compact design and small own weight
- housing and switching made from high-quality, durable material ensures a long lifecycle
- strengthend, permanent lifting power
- after switching off minimum remaining magnetism
- very small switching power required
- low maintenance costs
- supplied with operating instructions, test certificate and EC conformity declaration



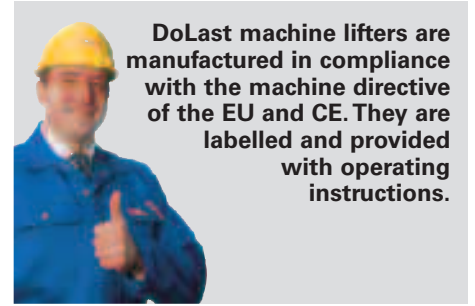
Areas of application

- for feeding and positioning parts of up to 2,000 kg
- for larger and heavier parts, two and more Do 2 MAG lifting magnets can be used
- as an effective tool, for instance, for construction and installation work, ship building and warehouse transportation



Machine and Universal lifters

DoLast

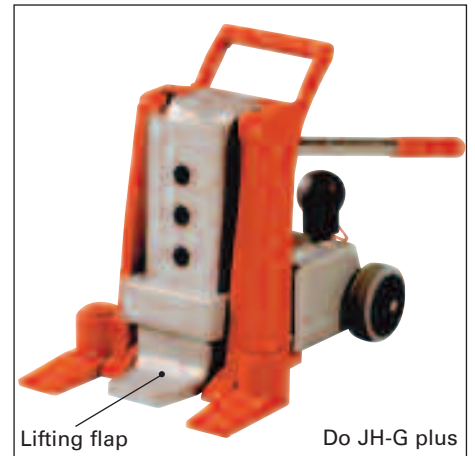


Do JH G plus machine lifter, with integrated pump and hand lever, with swivelling lifting flap $\pm 6^\circ$

Model		Do JH 5 G	Do JH 10 G	Do JH 15 G	Do JH 20 G
Item No.		0881 4924	0881 4925	0881 4928	0881 4935
Carrying capacity	kg	5.500	10.000	15.000	20.000
Smallest height	mm	12	15	20	20
Biggest height	mm	157	180	205	225
Lift height	mm	140	150	175	190
Weight	approx. kg	23	29	48	60
Price each		on enquiry	on enquiry	on enquiry	on enquiry

Machine lifters are indispensable tools where heavy machines need to be lifted or precisely levelled (levelled, flattened, balanced). Easy handling, great effects in installation and production halls, for machine construction and machine trade, in repair shops, freight forwarding, warehouses and at trade fairs.

Other carrying capacities available on request.



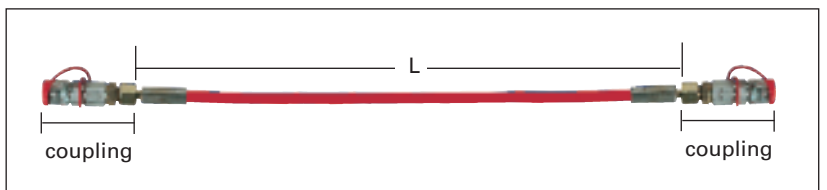
Do JP compact hand pump

Model		Do JP 16	Do JP 26
Item No.		0881 4926	0881 4936
Tank volume/usable	L	1,1/1,0	2,1/2,0
Working pressure	bar	520	520
Connections, number		2	2
Dimensions: LxBxH	mm	780 x 230 x 150	840 x 230 x 170
Weight approx.	kg	7	11
Usable lever		2 x Do JH 5-JH 10	2 x Do JH 5-JH 20
Price each		on enquiry	on enquiry



Do JS hydraulic pipe

Model	Do JS 2	Do JS 3	Do JS 4	Do JS 6	Do JS 15
Item-No.	0881 4907	0881 4917	0881 4927	0881 4937	0881 4947
drip-free coupling, number	2	2	2	2	2
length m	2	3	4	6	15
Price each	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry



Do UH 9 universal lifter with screwable shaft

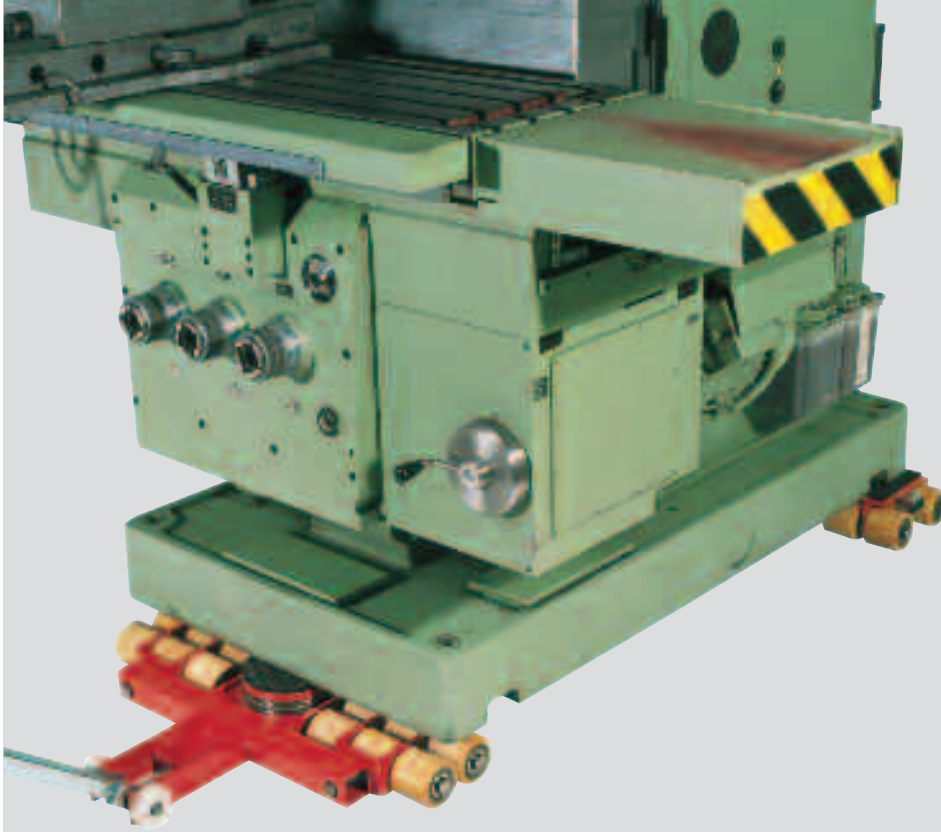
Item no.	Carrying cap. kg	Lift mm	Constr. height mm	Shaft lift mm	max. constr. height mm	Weight approx. kg	Price each
0881 4902	2.000	115	181	50	346	2,7	Price on enquiry
0881 4904	4.000	126	205	60	391	3,7	
0881 4906	6.000	130	219	75	424	4,7	
0881 4908	8.000	152	225	70	447	5,7	
0881 4912	12.000	153	240	80	473	8,0	
0881 4920	20.000	153	240	80	473	11,0	
0881 4930	30.000	180	280	-	460	22,0	
0881 4950	50.000	178	305	-	483	53,0	

Hydraulic universal lifters can be found in nearly all workshops where loads are lifted or lowered. As a classic car jack, it is used everywhere. Thanks to the additionally unscrewable shaft, empty lifting or an additional structure is usually not necessary.

Processing and execution

- additional shaft lift (up to 20 t)
- Do UH with 2-level volume
- incl. pump lever





Heavy load roller trolleys

DoLast



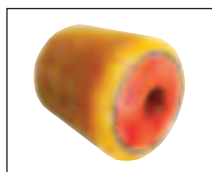
Improvisation is dangerous!

To move heavy machines, use tested transport roller trolleys only.

Do JL steering gear with steering bar and Do JF roller trolley with connecting bar

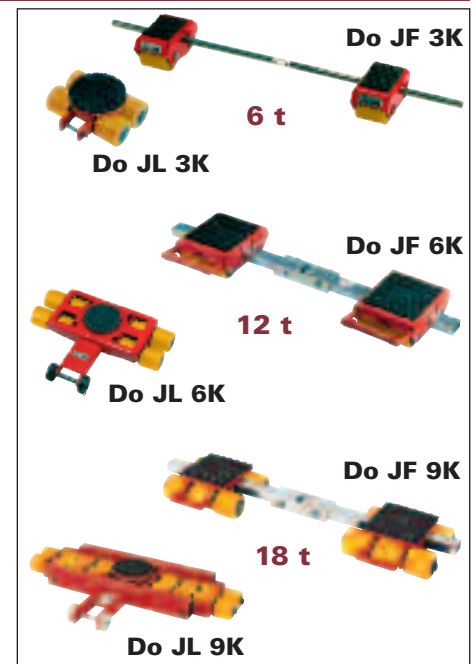
Model	Do JL 3K	Do JF 3K	Do JL 6K	Do JF 6K	Do JL 9K	Do JF 9K
Item no.	0881 4943	0881 4953	0881 4946	0881 4956	0881 4949	0881 4959
Carrying capacity	kg 3.000	3.000	6.000	6.000	9.000	9.000
Number of roles	4	4	8	8	12	12
Role Ø	mm 85	85	85	85	85	85
Installation height	mm 110	110	110	110	110	110
contact surface/cassette	mm 120 x 80		175 x 170		175 x 170	
Dimensions cassette	mm 190 x 125		325 x 200		325 x 390	
adjustable cassettes	mm 125 - 880		400 - 1.030		400 - 1.030	
Rotary disc Ø	mm 150		150		170	
Dimensions steering unit	mm 225 x 280		445 x 590		580 x 820	
Weight approx.	kg 12	11	33	25	54	32
Price each	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry

For fast and secure transportation of heavy machines and heavy, bulky goods.



Equipped as a default with poly-urethane-plus coating for all floors.

Other styles and higher carrying capacities on request!



Do SF7 heavy load roller trolleys

Item no.	Contact support mm	Contact support mm	Total height mm	Carrying capacity kg	Weight approx. kg	Price each
0899 0086	120	120	108	20.000	50	Price on enquiry
0899 0114	120	120	117	30.000	58	
0899 0256	130	130	140	60.000	92	

A metal sheet kit includes

Transport set consisting of:

- 4 pieces heavy-duty roller gear
- 2 pieces centre pivot plate
- 2 pieces steering bars
- 2 pieces levelling piece
- 2 pieces connection bar
- 1 pieces track rod
- 1 piece metal case

Every transport roller trolley undergoes a function test before delivery and receives a test label for the next maintenance date.

In all areas where heavy loads need to be moved, our lifting and transport devices have been tried and tested in day-to-day operation.



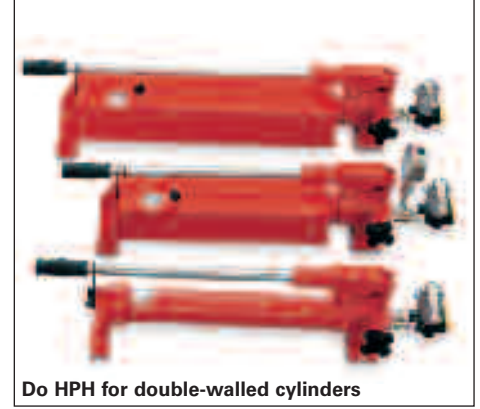
The carrying capacity is designed so that only 2 of 4 heavy-duty roller gears are regarded as load-carrying. This means that uneven grounds are taken into account.

Hand pumps Hydraulic tubes

DoLast



Do HPH for double-walled cylinders



Do HPS and Do HPH hydraulic pumps for single and double-action cylinders, 700 bars

Hand pumps are easy to use. The operating pressure is up to 700 bar.

Switching from the first to the second level is automatic.

Do HPS is a two-level hand pump with rapid feed (except HPS-1/0,7 A). This allows fast operation.

- sensitive adjustable release valve
- solid metal construction
- including hydraulic oil

Item no.	Type	Tank volume cm ³	Delivery volume		Weight in kg	Price each
			1st level cm ³	2nd level cm ³		
0881 4922	HPS - 1 / 0,7 A	700	-	2,0	7,0	Price on enquiry
0887 0300	HPS - 2 / 0,3 A	300	5	1,0	3,5	
0887 0700	HPS - 2 / 0,7 A	700	11	2,0	7,0	
0887 2004	HPS - 2 / 2 A	2.000	11	2,0	10,0	
0887 2005	HPS - 2 / 4 A	4.000	11	2,0	13,0	
0887 2000	HPS - 2 / 6,5 A	6.500	11	2,0	21,0	
0887 2007	HPS - 2 / 10 A	10.000	11	2,0	27,0	

Prices for Do HPH hand pump on request



Do HPS for single-walled cylinders

Do HHS hydraulic tubes, burst pressure 2800 bar, external ø approx. 14.0 mm, bending radius at least 100 mm, nominal size 6.3 mm

These thermoplast high pressure hydraulic tubes are of best quality and durability. The 4-layer tubes have 2 steel inlays, stable fittings with 19-mm hexagon and abrasion-resistant exterior coating.

The volume extension is very low. Hydraulic tubes of the HHC series have the suitable CMY-1 connector plug in standard production. Standard tube lengths see table; other lengths and nominal values can of course be delivered on request.

Item no.	Type	Length m	NS mm	Operating pressure max. bar	Connection 1 3/8-NPT, exterior	Connection 2 CMY-1	Price each
0887 2100	HHC - 5	0,5	6,3	700	Hose end with screw-in thread (connects to pump)	Tube end with coupling plug (cylinder end)	Price on enquiry
0887 2101	HHC - 10	1,0	6,3	700			
0887 2102	HHC - 20	2,0	6,3	700			
0887 2103	HHC - 30	3,0	6,3	700			
0887 2104	HHC - 40	4,0	6,3	700			
0887 2106	HHC - 60	6,0	6,3	700			
0887 2108	HHC - 80	8,0	6,3	700			
0887 2110	HHC - 100	10,0	6,3	700			
0887 2112	HHC - 120	12,0	6,3	700			
0887 2115	HHC - 150	15,0	6,3	700			



Connection 1

Connection 2

Hydraulic cylinders

DoLast



Do YS universal cylinder, single-action with spring retreat, 5 - 100 t, 700 bar

Do YS universal cylinder. These solid hydraulic cylinders are characterised by extremely good lateral load compatibility and are very handy, as they have a spring retreat and one tube connection only.

- with metrical fitting threads on the cylinder housing, in the cylinder floor and from 5 to 30 t also in the plunger
- with replaceable, hardened pressure piece

- including CFY-I coupling box
- YS-50/100 and YS-50/160 with carrier handle
- YS-50/320 to YS-100/200 with 2 carrier handles

Application

Do YS universal cylinders can be used for all types of work where great force

and small dimensions are needed, e.g. pressing shafts, straightening welding constructions, lifting, aligning, supporting, weighing, etc., or for all installation and repair works.

Thanks to the metrical fitting threads produced as a standard, these cylinders are perfectly suitable for installation in devices and workshop presses.

Item no.	Cylinder class t	Carrying capacity in kg	Pressure kN	Lift mm	Effective shank surface cm ²	max. oil volume cm ³	Construction height retracted mm	Cylinder external ø mm	Weight kg	Thread in plunger mm	Thread on cylinder floor mm	Thread on cylinder external ø mm	Price each
08870515	5	5/15	50	15	7,2	11	45	41	0,9	-	2 x 5,5 ø	-	Price on enquiry
08870525		5/25	50	25	7,2	18	97	42	1,0	M 20 x 2	2 x M 6	M 42 x 1,5	
08870575		5/75	50	75	7,2	53	157	42	1,5	M 20 x 2	2 x M 6	M 42 x 1,5	
08870512		5/127	50	127	7,2	90	214	42	2,0	M 20 x 2	2 x M 6	M 42 x 1,5	
08870518		5/180	50	180	7,2	127	267	42	2,4	M 20 x 2	2 x M 6	M 42 x 1,5	
08871025	10	10/25	100	25	14,3	37	90	57	1,6	-	2 x M 8	M 57 x 1,5	
08871150		10/50	100	50	14,3	73	125	57	2,1	M 27x 2	2 x M 8	M 57 x 1,5	
08871010		10/100	100	100	14,3	146	178	57	2,8	M 27 x 2	2 x M 8	M 57 x 1,5	
08874934		10/150	100	150	14,3	218	250	57	4,1	M 27 x 2	2 x M 8	M 57 x 1,5	
08874929		10/200	100	200	14,3	291	300	57	4,7	M 27 x 2	2 x M 8	M 57 x 1,5	
08871026		10/250	100	250	14,3	363	352	57	5,5	M 27 x 2	2 x M 8	M 57 x 1,5	
08871030		10/300	100	300	14,3	436	407	57	6,3	M 27 x 2	2 x M 8	M 57 x 1,5	
08871525	15	15/25	150	25	21,5	53	110	67	2,7	M 33 x 2	2 x M 10	M 67 x 1,5	
08871550		15/50	150	50	21,5	106	140	67	3,3	M 33 x 2	2 x M 10	M 67 x 1,5	
08871510		15/100	150	100	21,5	213	190	67	4,3	M 33 x 2	2 x M 10	M 67 x 1,5	
08871515		15/150	150	150	21,5	319	260	67	5,8	M 33 x 2	2 x M 10	M 67 x 1,5	
08871520		15/200	150	200	21,5	425	310	67	7,0	M 33 x 2	2 x M 10	M 67 x 1,5	
08871526		15/250	150	250	21,5	531	365	67	8,0	M 33 x 2	2 x M 10	M 67 x 1,5	
08871530		15/300	150	300	21,5	637	420	67	9,0	M 33 x 2	2 x M 10	M 67 x 1,5	
08871535		15/350	150	350	21,5	744	472	67	10,0	M 33 x 2	2 x M 10	M 67 x 1,5	
08872325	23	23/25	230	25	32,9	83	116	85	5,0	M 40 x 2	4 x M 10	M 85 x 2	
08872350		23/50	230	50	32,9	166	150	85	6,0	M 40 x 2	4 x M 10	M 85 x 2	
08872310		23/100	230	100	32,9	332	202	85	7,5	M 40 x 2	4 x M 10	M 85 x 2	
08872316		23/160	230	160	32,9	531	277	85	10,0	M 40 x 2	4 x M 10	M 85 x 2	
08872317		23/210	230	210	32,9	697	330	85	12,0	M 40 x 2	4 x M 10	M 85 x 2	
08872324		23/250	230	250	32,9	830	376	85	13,5	M 40 x 2	4 x M 10	M 85 x 2	
08872330		23/300	230	300	32,9	996	428	85	15,0	M 40 x 2	4 x M 10	M 85 x 2	
08872345		23/345	230	345	32,9	1.145	477	85	16,5	M 40 x 2	4 x M 10	M 85 x 2	

Cylinders with greater carrying capacities on request

Lifting winches

according to DIN 7355

DoLast

Lifting -

Do SW 101/S steel winch according to DIN 7355 with safety crank Do SW 101/R steel winch according to DIN 7355 with ratchet crank

Enclosed model, front drive with large transformation, low crank pressure, gears and bevel in the casting.

Variant according to DIN 7355 with safety crank.
Lifting claw can also be loaded 100%.

Lifting cap. in t	Constr. height in mm	Lifting height mm	Claw height in lowest position in mm	Weight in kg	Safety crank		Ratchet crank	
					Item no.	Price each	Item no.	Price each
1.500	725	350	65	13	0881 4400	Price on enquiry	0881 4410	Price on enquiry
3.000	725	350	70	20	0881 4401		0881 4411	
5.000	725	350	75	27	0881 4402		0881 4412	
7.500	725	350	75	29	0881 4405		0881 4415	
10.000	800	400	80	42	0881 4403		0881 4413	



Safety crank

The safety crank holds the load at every height together with the double block bolt with nirosta pin.



Safety ratchet crank

The safety ratchet crank is suitable like the safety crank as regards design, operation and usability. It is used for work in very small rooms where the crank arm cannot be rotated by 360°.



Do SW 101/S

Do SW 102/S steel winch, according to DIN 7355, lowered height with safety crank

Due to the low design height, the range of applications is significantly increased. The handle is reversible.

Item no.	Carrying capacity kg	Lifting height mm	Constr. height mm	Weight approx. kg	Price each
0881 4430/70	1.500	250	550	11	on enquiry
0881 4450/71	3.000	275	570	18	
0881 4462/72	5.000	300	600	24	
0881 4468/73	7.500	300	625	26	
0881 4464/74	10.000	300	650	38	

Prices with ratched crank on enquiry

Do SW 103 steel winch, according to DIN 7355, with adjustable claw with safety crank

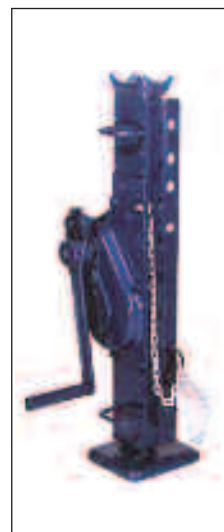
The adjustable claw can be set for various working levels. Full capacity is also ensured without supporting the winch. Handle is reversible.

Item no.	Carrying capacity kg	Lifting height mm	Constr. height mm	Weight approx. kg	Price each
0881 4440/54	1.500	350	725	19	on enquiry
0881 4441/51	3.000	350	725	26	
0881 4442/52	5.000	350	725	33	
0881 4443/53	10.000	400	800	51	

Prices with ratched crank on enquiry



Do SW 102/S



Do SW 103/S

Lowering - Pushing

Do SW 106/S carriage jack with safety crank

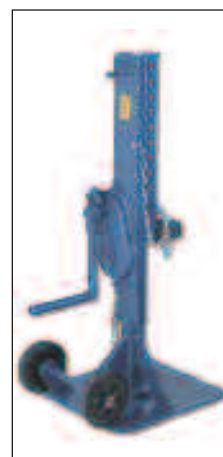
Indispensable helper in car workshops, freight forwarding companies and vehicle companies. The large base plate ensures a high standing safety, the fitted transport rollers allow for easy movement in any workplace.

Claw can be height-adjusted to 10 levels, with vulcanised rubber surface, allows immediate safe use.

Item no.	Carrying capacity kg	Lifting height mm	Constr. height mm	Weight approx. kg	Price each
S crank/R crank					
0881 4449/48	8.000	630	1240	95	o.e.

Prices with ratched crank on enquiry

High quality components according to DIN 7355.



Do SW 106/S



Do SW 107/S

Do SW 107/S container/site trailer winch with safety crank

The site trailer winch is fitted with a large base plate and strengthening on the housing's rear.

High quality components according to DIN 7355.

Item no.	Carrying capacity kg	Lifting height mm	Constr. height mm	Weight approx. kg	Price each
S crank/R crank					
0881 4467	3.000	900	1.300	31	o.e.
0881 4469	5.000	900	1.400	48	o.e.

Prices with ratched crank on request

Do SW 108/S cable reel winch with safety crank

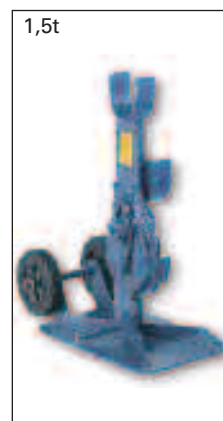
The solid and low-cost unit for use in production and on-site. The cable reel winches are fitted with a rotatable head and a hook-in claw which can be adjusted to 12 levels in height with a safety clip (exception at 1.5 t). The base plate of 500 x 500 x 70 mm ensures a high standing security, the 2 rollers allow fast and simple transport, reversible handle.

High quality components according to DIN 7355.

Item no.	Carrying capacity kg	Lifting height mm	Constr. height mm	Weight approx. kg	Price each
S crank/R crank					
0881 4420/31	1.500	265	625	32	Price on enquiry
0881 4421/32	3.000	350	1.000	64	
0881 4422/33	5.000	350	1.300	86	

Prices with ratched crank on request

Drum axle in pipe design with limitation clamps



1,5t



3t
5t

Do SW 108/S

Do SW 110 gear rod lifting jacks with safety crank

With small footprint. Drive made from hardened steel. Load on push or pull. The gear rods with even interlocking can be delivered in any length.

High quality components according to DIN 7355.

Item no.	Carrying capacity kg	Lifting height mm	Constr. height mm	Weight approx. kg	Price each
S crank/R crank					
0881 4482/90	1.500	500	785	11	Price on enquiry
0881 4481/87	1.500	700	985	12	
0881 4480/92	1.500	900	1.185	13	
0881 4483/93	3.000	500	900	19	
0881 4484/94	3.000	700	1.100	21	
0881 4486/95	3.000	900	1.300	23	
0881 4485/96	5.000	700	1.200	28	
0881 4489/97	10.000	700	1.300	55	

Prices with ratched crank on request

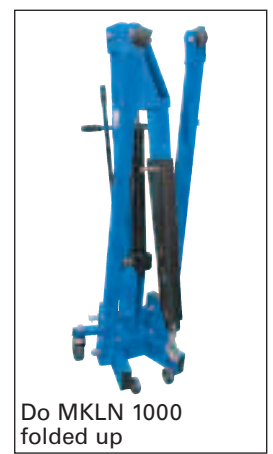
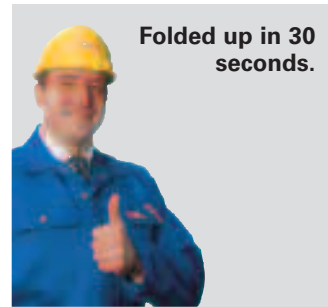


Do SW 110/S

Mobile workshop cranes

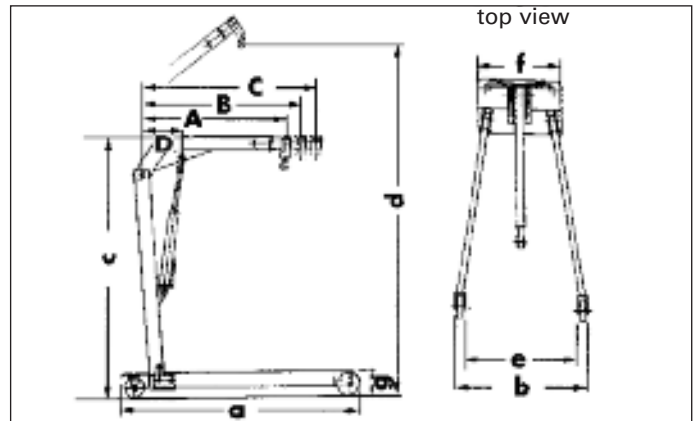
Scissor-type pallet trucks

DoLast



Do MKLN – mobile workshop crane

Model	Do MKLN 1000		Do MKLN 2000	
Item no.	0878 7801		0878 7802	
Carrying capacity	mm	kg	mm	kg
Telescope length	A	1.230	1.290	2.000
	B	1.380	800	1.440
	C	1.530	700	1.590
Dimensions in mm	a	1.740	1.920	
	b	1.120	1.140	
	c	1.980	1.895	
	max. d	2.560	2.680	
	D*	310	350	
	e	965	980	
	f	450	560	
	g	90	210	
Weight approx.	kg	118	165	
Price each	on enquiry		on enquiry	



* in horizontal position

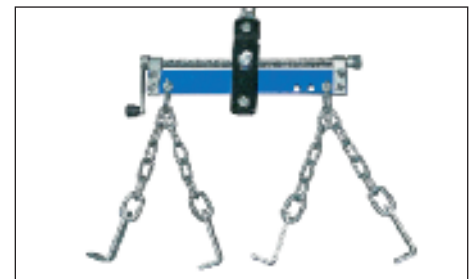
With double-action hydraulic pump (quick-lift function up to 50 kg load) for professional use. Pump lever is operative in both directions.

Solid wheels with ball bearing steering rollers for ideal mobility. Lowering of loads with finely regulated valve. Crane hook rotatable by 360°.

Do 45 P positioner

Item no.	Price each
0878 9804	on enquiry

Positioner suitable for all workshop cranes. Exact horizontal positioning by ratchet winch allows easy and fast placement of motors and other devices up to 500 kg.



Do HU HS 10 scissor-type pallet truck with manual hydraulic lift

Item no.	Carrying capacity in t	Fork length in mm	Fork height in mm	Fork width in mm	Price each
0878 9930	1,0	1.150	max. 800	540	o. e.

A combination of manual fork pallet truck and lifting table for the transport and lifting of palletized loads to flexible working heights in production, installation and shipping.

- Overload protection with safety valve
- Lowering of the load with easily adjustable dropping speed
- Safety supports guarantee a secure standing of the vehicle for lifted forks



Do HU ES 10 scissor-type pallet truck with electro-hydraulic lift

Item no.	Carrying capacity in t	Fork length in mm	Fork height in mm	Fork width in mm	Price each
0878 9931	1,0	1.170	max. 800	540	o. e.

Expands the usage properties of the HU HS 10 through time-saving handling for use with frequent lifting and lowering procedures.

Battery and charging device are included in the delivery.



Hand pallet trucks

Dolast

Hand lever with three functions:
lifting – driving – lowering

Wheels made from polyurethane

Hydraulics galvanized



Do 2500-NL/ACY 25 hand pallet truck

Technical data hand pallet truck

Do 2500-NL/ACY 25

Item no	0878 9835
Carrying capacity	2.500 kg
Min. Fork height	85 mm
Max. Fork height	200 mm
steering rollers	200 x 50 mm
load rollers	85 x 50 mm
Light dimen. betw. Forks	160 x 50 mm
Width above the Forks	540 mm
Fork length	1.150 mm
Weight approx.	85 kg
Price each	on enquiry

The fast support for your practical material flow

A hand pallet truck helps to quickly and safely solve the load transport problems in your workplace. With the Do 2500 NL hand pallet truck, TÜV-tested and CE-certified, a load of **2.500 kg** can be very conveniently and easily moved by only one person.

The minimum fork tooth or headroom is 85 mm. When the load is lifted, you have a maximum fork height of 200 mm. Due to the construction which is strengthened with 4-mm thick metal

sheets, operation is also ensured in the most demanding circumstances.

- Hand lever with 3 functions
- Small manual force needed
- Hydraulics with long lifecycle
- Easy to control
- Chassis with a sturdy design
- No oil changing required
- Tandem rollers and steering wheels made from polyurethane
- Easy driving under pallets
- With GS certification

Stainless steel hand pallet truck model Do HU PE

Item no.	Carrying capacity in t	Fork length in mm	Tyres	Price each
0878 9932	2,0	1.150	PA/PA Tandem	o.e.

For the professional transport of palletized goods in corrosion-endangered areas of the chemical and foods industries

- Steering rollers made from polyurethane and load rollers made from polyamide guarantee a high chemical resistance
- Maintenance-free groove ball bearing (2 RS) DIN 625
- Hydraulics unit galvanized and blue chromated



Hand pallet truck with integrated scales model Do HU PW

Item no.	Carrying capacity in t	Fork length in mm	Tyres	Price each
0878 9921	2,0	1.140	PUR/PA Tandem	on enquiry

Solid electronics allows demanding industrial use. With high-quality weighing cells, the hand pallet truck becomes a mobile scale.

- Tara, PC interface (RS 232), automatic setting to zero
- Split driving rods with centrally designed weighing cells
- Smallest measuring value 1 kg
- Chassis height 85 mm
- LED display (83plus), 6-digit, 20 mm figure height
- With counting and adding function
- PC configurable
- Simple adjustment, adjusted to $\pm 0.1\%$ from the end value
- Battery and charging device are included in the delivery



LED display 83plus



Optional: with printer



Electro chain hoists Do SiCC

Dolast



Weather-protection roof for electro chain hoists available on request. Can not be retrofitted afterwards.

Do 910 SiCC

Advantages:

- Compact design and low construction height, elegant design, low weight
- Good quality processing and excellent quality control
- Spare parts guarantee for many years

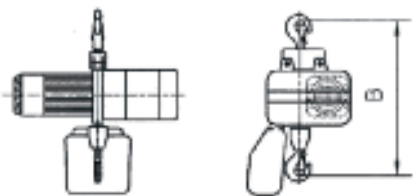
Technical features:

- Highly solid galvanized safety load chain
- Hoist limiting done by a low-wear slipping clutch
- Electro-magnetic disc brake
- Milled and hardened chain sprocket
- Electrical system: engine 400 V / 50 Hz, protection type IP 55
- Contactor control
- Height of stroke 3,000mm
- Control wire 2,500mm
- FEM-grading hoisting devices (product life in hours working under full capacity):
 - FEM 2m: 1.600 hours
 - FEM 1 Am: 800 hours

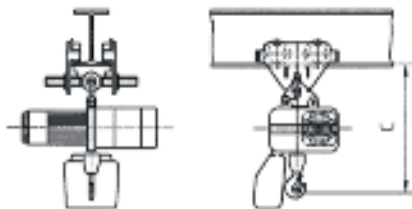
Electro chain hoists Do 910 SiCC (hook suspension)

	Carrying capacity kg	kg	125	250	250	500	500	1.000
	Mechanism group FEM		1Bm	1Bm	2 m	2 m	1Bm	1Bm
	Number of chain legs		1	2	1	2	1	2
	Main lifting	m/min.	8	4	8	4	8	4
	Fine lifting	m/min.	2	1	2	1	2	1
	Standard chain box until height of stroke	m	8	4	8	4	8	4
Hook	Construction height (B)	mm	360	385	415	465	415	465
Suspension	Price with hook suspension	Item no.	0899 0380	0899 0381	0899 0382	0899 0383	0899 0384	0899 0385
			on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry
Manual Trolley	Construction height (C)	mm	435	460	490	505	490	505
	Flange width	mm	50-220	50-220	50-220	50-220	50-220	58-305
	Price with Manual trolley	Item no.	0899 0386	0899 0387	0899 0388	0899 0389	0899 0390	0899 0391
			on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry
Electric Trolley	Construction height (D)	mm	-	-	450	500	450	500
	Flange width	mm	-	-	58-300	58-300	58-300	82-300
	Price with Electric trolley	Item no.	-	-	0899 0392	0899 0393	0899 0394	0899 0395
			-	-	on enquiry	on enquiry	on enquiry	on enquiry

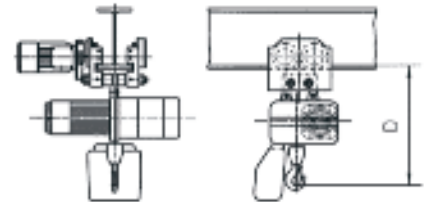
Electric switch-off-mechanism after use available on request.



hook suspension



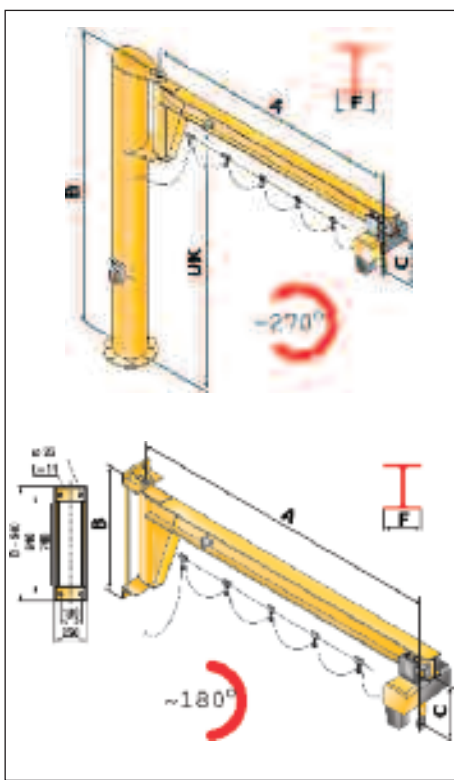
manual trolley



electric trolley

Cranes

DoLast



Two mounting systems at your choice

1. Anchor bolts with foundation templates

Depth of foundation at least 1,000mm



2. SHEAR CONNECTOR SYSTEM

For the direct mounting on reinforced and unreinforced concrete. Concrete quality B25, thickness at least 200mm. Delivery includes shear connector and screws



Slewing crane

Slewing range 270° or 180° as column- or wall-mounted configurations available

Steel construction complies with EN-regulations and EU-machine guidelines for light industrial use.

Model:

- Carrying capacity up to 500kg
- Jib length up to 5,000mm
- Standard electrical system with power supply to hoist (the technical data of the electric chain hoists can be found

on page 468)

- Jib with slide bearing
- Trolley travel buffer
- Quality corrosion protection by automatic steel shot blasting according to Sa 2 ½ and DIN 55928
- Primer coat yellow, RAL 1007

Electrical system:

Lockable main switches, round cable for power supply, for a jib length up to 3,000mm with a cable holding bracket and for a jib

length of 4,000mm and more with a round trailing cable.

Documentation:

Crane documents include certified preliminary and final inspections, complete labelling according to UVV, illustrated mounting instructions.

Electric chain hoist with manual drive dolly:

Operating voltage 400 V/ 50 Hz, control voltage 48 V, with emergency stop button.

Column-mounted slewing crane, DoAs, slewing range 270°

Carrying capacity	kg	125	125	125	250	250	250	500	500	500
Jib length (A)	mm	3.000	4.000	5.000	3.000	4.000	5.000	2.000	3.000	4.000
Lower edge of crane jib (UK)	mm	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Construction height (B)	mm	2.790	2790	2.790	2.790	2.845	2.845	2.790	2.845	2.845
Flange width (F)	mm	91	91	91	91	120	120	91	120	120
Lifting device height (C)	mm	435	435	435	460	460	460	505	505	505
Crane without electric chain hoist	Item no.	0899 1203	0899 1204	0899 1205	0899 2530	0899 2540	0899 2515	0899 5530	0899 5540	0899 5550
	Price	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry
Crane with electric chain hoist and manual trolley	Item no.	0899 1213	0899 1214	0899 1215	0899 2531	0899 2541	0899 2516	0899 5531	0899 5541	0899 5551
	Price	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry
Main lifting + fine lifting	m/min.	8 + 2	8 + 2	8 + 2	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1

Accessories

Anchor bolts with foundation templates (Depth of foundation 1000 mm)	Item no.	0899 9201	0899 9202	0899 9203	0899 9204	0899 9205	0899 9206	0899 9207	0899 9208	0899 9209
	Price	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry
	□ Fundament/mm	900	1.050	1.150	1.050	1.250	1.350	1.100	1.300	1.450
Shear connector system (alternative) Direct mounting on concrete floor Min. thickness 200 mm	Item no.	0899 9211	0899 9212	0899 9213	0899 9214	0899 9215	0899 9216	0899 9217	0899 9218	0899 9219
	Price	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry
	σ Platte / mm	680	680	680	680	850	850	680	850	1.050

Wall-mounted slewing crane, DoPW, slewing range 180°

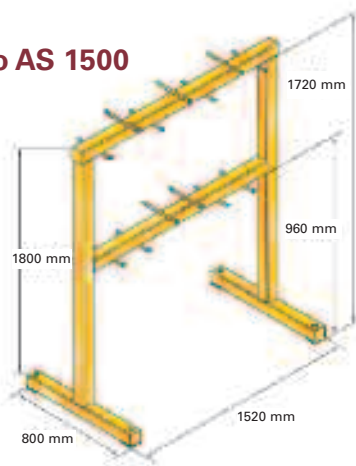
Carrying capacity	kg	125	125	125	250	250	250	500	500	500
Jib length (A)	mm	3.000	4.000	5.000	3.000	4.000	5.000	2.000	3.000	4.000
Construction height (B)	mm	940	940	940	940	940	940	940	940	940
Flange width (F)	mm	91	91	91	91	91	120	91	120	120
Lifting device height (C)	mm	435	435	435	460	460	460	505	505	505
Horizontal force H max.	kN	10	13	17	16	22	30	19	30	41
Vertical force V max.	kN	3	3	3	4	5	6	8	8	9
Crane without electric chain hoist	Item no.	0899 1253	0899 1254	0899 1255	0899 2503	0899 2504	0899 2505	0899 5200	0899 5300	0899 5301
	Price	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry
Crane with electric chain hoist and manual trolley (lifting height 3m)	Item no.	0899 1256	0899 1257	0899 1258	0899 2506	0899 2507	0899 2508	0899 5206	0899 5207	0899 5208
	Price	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry
Main lifting + fine lifting	m/min.	8 + 2	8 + 2	8 + 2	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1	4 + 1

Other carrying capacities on request.

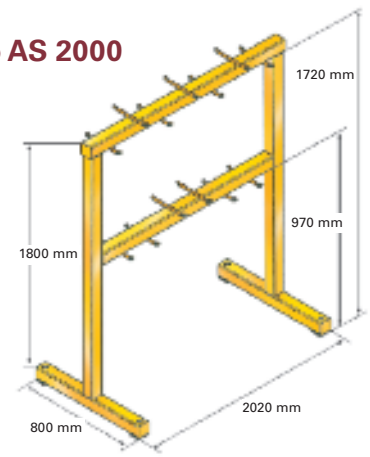
Stand for the storage of load securing devices

DoLast

Do AS 1500



Do AS 2000



Stand for the storage of load securing devices Do AS

Item no.	carrying capacity total max. kg	carrying cap. per hook approx. kg	hooks number	weight kg	height mm	width mm	depth mm	Price each
0810 8269	1.000	75	13	ca. 80	1.800	1.520	920	on enquiry
0810 8270	1.000	60	17	ca. 90	1.800	2.020	920	on enquiry

Advantages

- Tidy storage at a low price
- Central storage of the load securing devices
- Load securing devices get not tangled up
- Good overview
- The appropriate load securing device can always be seized
- Free-standing, can be used immediately

Technical description

- Free-standing and solid steel construction
- Appropriate for ropes, chains, lifting straps, round slings and cargo lifting gear
- Anchoring to the floor is not necessary
- The maximum carrying capacity of the stand is 1,000kg
- Ready for immediate use

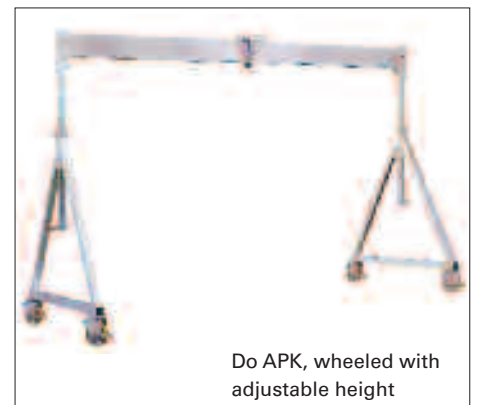
Other sizes and models on wheels available on request!

Aluminium Portal crane for quick construction Do 75 APK (wheeled)

Item no.	carrying capacity kg	clear width mm	adjustable height range mm	suspension height min.-max. mm	weight kg	Price each
0875 0305	500	3.000	950	2.090-3.040	115	Price on enquiry
0875 0405	500	4.000	1.400	2.527-3.927	144	
0875 0310	1.000	3.000	950	2.090-3.040	125	Price on enquiry
0875 0410	1.000	4.000	1.400	2.527-3.927	160	
0875 0315	1.500	3.000	950	2.060-3.010	130	Price on enquiry
0875 0415	1.500	4.000	1.400	2.497-3.897	165	

- Aluminium construction
- Hoisting class DIN 15018: H1
- Loading group DIN 15018: B1
- Location of installation: hall/open area
- Low net weight
- Simple plug-in assembly without screws
- Adjustable in height
- Ideal mounting crane
- 4 castors with lockable wheel stops
- Carrying capacity 500-1,500kg
- Clear width: 3,000-4,000mm
- Manual drive dolly

Due to its aluminium construction the crane can be easily assembled and disassembled by one person only. All connectors are pluck-ins. The individual parts do not exceed a weight of 30 kg. All cranes come with adjustable height as standard. The delivery includes lockable castors and manual drive dolly. Please choose the lifting device from our wide range of products: spur gear hoist, electric chain hoist, compressed-air hoist





Unnecessary standing under form-fit lifting installations, e.g. crane hooks/hooks chains is prohibited. It is forbidden to stand under magnet, vacuum and friction lifters at any times. The relevant provisions of the UVV (BGR), DIN EN 13155 do apply.



Vacuum lifters and transport devices

Dolast

Do 65V vacuum lifter (automatic)

Areas of application:

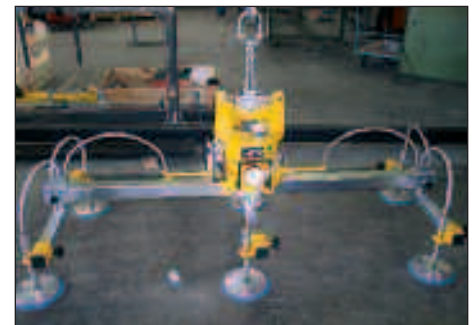
Horizontal transport of gas-proof materials with clean and even surfaces, such as sheets (flash rust means no limitation), polished marble or granite blocks, coated chip-board, plastic table, etc.

Your benefits:

- Automatic vacuum creation when lifting the load
- Simple and secure handling
- Careful transport for treated surfaces
- Predominantly maintenance-free, also for intensive use in operations with high levels of dirt or outdoors
- No external energy source, i.e. no power cable required
- After hooking in, immediately operational anywhere
- Apart from crane steering no operation of the device required, automatic work clock switching
- Thanks to low own weight, very good usage of lifting gear
- When lifting sheets or plate batches, only the first unit is taken

Special models with other load-carrying capacities or with engine-driven vacuum generators are also available, please enquire.

Item no.	Carrying capacity max. kg	Support surface required suction cups mm	Beam mm	Weight approx. kg	Price each
Single device for form-stable loads					
0860 1030	270	1 St. 350 ø	-	25	Price on enquiry
0860 1075	640	1 St. 480 ø	-	78	
0860 1110	1.110	1 St. 625 ø	-	135	
Multiple cup standard device for mainly large surface, unstable loads (e.g. thin sheets)					
0860 2030	300	2 St. 350 ø	1.850	67	Price on enquiry
0860 2075	300	4 St. 250 ø	2.250	75	
0860 2125	270	6 St. 210 ø	2.210/1.000	86	
0860 2250	750	2 St. 415 ø	1.915	141	Price on enquiry
0860 2400	750	3 St. 350 ø	2.350	151	
0860 2700	650	6 St. 250 ø	2.250/1.000	175	
0860 2012	1.250	2 St. 625 ø	2.125	285	Price on enquiry
0860 2175	1.000	4 St. 350 ø	2.850	250	
0860 1250	1.250	4 St. 415 ø	4.415	355	
0860 2412	1.250	6 St. 350 ø	1.900/1.000	350	

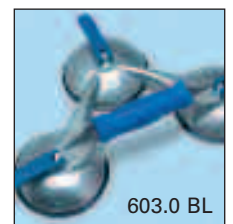


Do 60 manual vacuum lifter – strong power to lift, carry and hold

Vacuum lifters with up to 3 round suction disks for lifting capacities up to 150 kg. The housing is made from aluminium with plastic-coated operating elements, TÜV-GS-tested. Large handle range, also with movable heads and adjustable joints. Suction rubber discs,

even or with flexible seam lip. Numerous special designs for lifting floor plates, inserting car windshields or for glass adhesive work. For "grabbing" plastic and coated wood plates as well as sheets, marble, plastic and ceramic plates.

Item no.	Model	Carrying capacity in kg	Name	Suction disc-diameter approx. mm	Weight approx. kg	Price each
0860 7000	600.0 BL	30	1-head aluminium	120	0,50	Price on enquiry
0860 7001	610.0 BL		rubber disc for 1-head	120	0,22	
0860 7002	S 0.0 BL	2 x 30	Set with 2 x 600.0 BL in the case	120	1,52	
0860 7003	601	120	Vacuum lifter with manual pump	210	1,62	
0860 7004	602.0 BL	70	2-head aluminium, lateral grasp	120	1,07	
0860 7005	602.4 BL	60	2-head aluminium, longitudinal grasp	120	1,01	
0860 7006	S 2.4 BL	2 x 60	Set with 2 x 602.4 BL in the case	120	2,50	
0860 7008	603.0 BL	100	3-head aluminium	120	1,43	
0860 7007	S 3.0 BL	2 x 100	Set with 2 x 603.0 BL in the case	120	3,97	
0860 7009	614.0 BL		Rubber discs for 2 and 3 head	120	0,17	



Top seller Lifting devices

DoLast

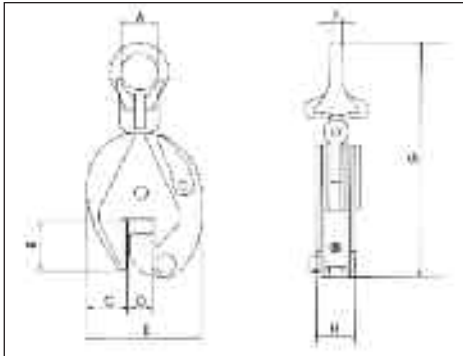


Do 81/NL



The carrying capacity is reduced if the lifting clamps pull diagonally. Please consult the diagram on load capacity on page 442 for further information.

Do 81/NL Lifting clamps with swivel eye



Item no.	Carrying capacity kg	Grab range mm	Weight kg	Dimensions in mm								Price each
				A	B	C	D	E	F	G	H	
08920107	500	0-15	1,9	∅ 30	44	35	0-17	103	10	212	35	Price on enquiry
08920112	1.000	0-20	4,8	∅ 48	63	51	0-22	138	12	295	51	
08920123	2.000	0-25	6,5	∅ 70	76	56	0-27	164	16	370	52	
08920132	3.000	0-30	14,8	∅ 75	85	59	0-32	193	20	418	78	

The Do 81/NL Lifting clamps with swivel eye is designed for the lifting of sheets as well as the turning of steel and

welded constructions. The swivel eye enables lateral load securing.

Do SW 101/S-NL Steel winch with safety crank



Item no.	Carrying capacity kg	Construction height mm	lifting height mm	lowest position for lifting mm	Weight kg	Price each
08814407	3.000	735	355	70	20	on enquiry

- Developed for the lifting and repairing of vehicles
- Long product life due to the spur gear made of high-quality hardened steel
- Simple and secure handling

Do 193/NL-BC Beam clamps



Item no.	Carrying capacity kg	Flange width mm	Weight kg	Price each
08983022	2.000	75 - 230	5,0	
08983032	3.000	80 - 320	9,5	

- fast creation of lifting points

Do 190 NL-PT Manual trolleys



Item no.	Carrying capacity kg	Beam flange width mm	smallest curve radius m	Weight kg	Price each
08980017	1.000	50 - 203	0,9	9,0	
08980037	2.000	66 - 203	1,0	16,0	
08980047	3.000	74 - 200	1,2	32,0	

- Compact construction of low height
- Adjustable for different beam and profile areas



On request securing chain available for an extra charge.

Do 502/NL Lifting fork with adjustable pin, height adjustable and automatic weight balance

Item no.	Carrying capacity kg	Pin length mm	Clear height (internal) adjustable mm	Adjustable pin range mm	Weight ca. kg	Price each
08784012	200 - 1.000	1.000	1.100 - 1.600	350 - 900	140	Price on enquiry
08784017	300 - 1.500	1.000	1.300 - 2.000	350 - 900	165	
08784022	400 - 2.000	1.000	1.300 - 2.000	400 - 900	220	
08784032	600 - 3.000	1.000	1.300 - 2.000	450 - 900	280	

The application of the lifting fork is only allowed for lifting devices (cranes, lift trucks) that are supplied with safety hooks. The stated carrying capacity applies for a load centre distance of 500mm from the bars (half a pin length).

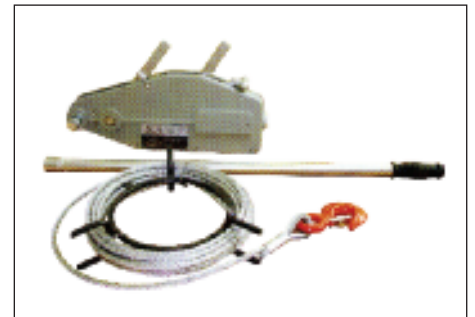
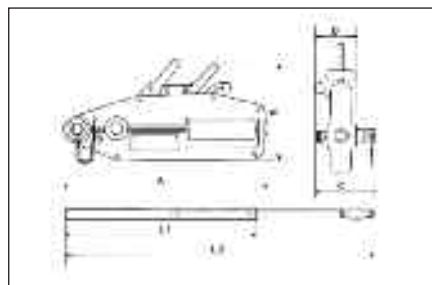
According to the load to be transported, the pins have to be adjusted to the required width and secured by locking. The autobalance function of the lifting fork requires a minimum loading of 20% of the nominal load.



Do NL Multi-purpose rope pull

Item no.	Multi-purpos pull	Power kg	Rope Ø mm	Weight kg	Dimensions in mm						Price each
					A	B	C	D	L1	L2	
08021084	Do NL 8	800	8,4	7,0	430	240	64	60	-	800	Price on enquiry
08021164	Do NL 16	1.600	11,5	14,0	545	270	102	97	800	1.200	
08021324	Do NL 32	3.200	16	21,0	680	330	116	110	800	1.200	

- Delivery includes 20m of rope and NL lever pipe
- Housing made of aluminium alloy



Do MKL/NL 2000 – Mobile workshop crane

Item no.	0878 9817
Support arm length mm	Carrying capacity kg
960	2.000
1.500	500
Weight approx. kg	92
Price each	on enquiry

- For various uses at the workshop
- Loading and unloading of vehicles
- Removal and installation of engines
- Simple and fast installation
- Space-saving storage



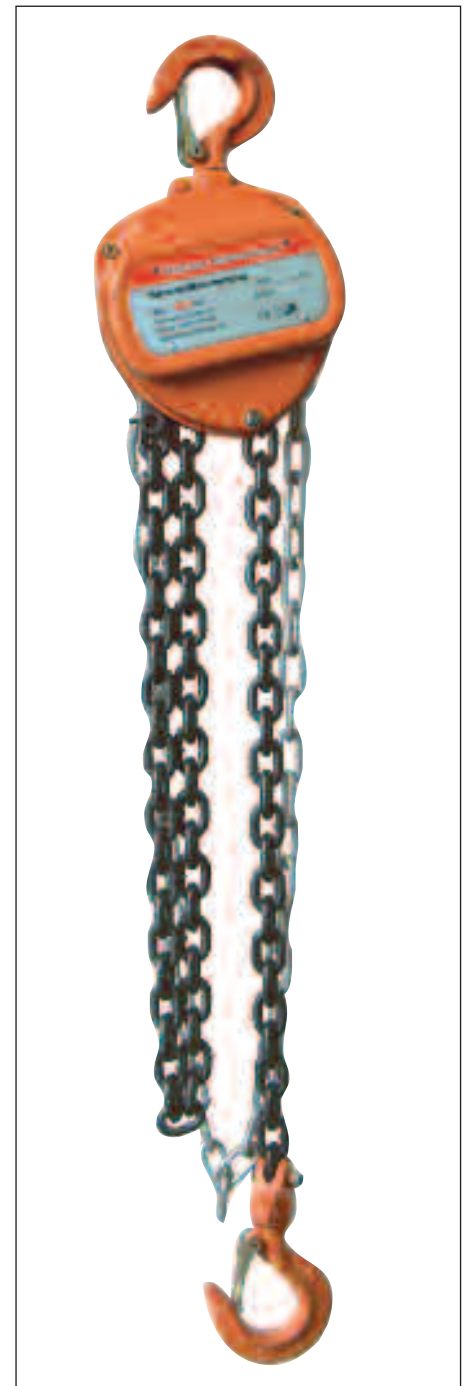
Hoist Lever Hoist

DoLast

Do 900 DD chain block with hook suspension

Item no.	Carrying capacity kg	Price each with 3 m lifting
0899 3008	500	Price on enquiry
0899 3012	1.000	
0899 3028	2.000	

- Highly solid, varnished steel coating
 - Low own weight
 - Safe operation
 - Low maintenance
 - Low cost and economical
 - Easy to use
 - Solid compact housing
 - 2-level reduction drive
 - The hardened gears and grooves run on roller bearings in order to reduce friction loss and to increase efficiency.
 - Quality load chain wheel with four precisely shaped chain pockets, roller bearing for easy run and low wear and tear
 - Highly solid, galvanised in accordance with DIN 5684/EN 818
 - Fully closed, automatic load pressure brake, asbestos-free brake blocks
- Every device is tested with an overload of 50% and comes with a test certificate.**



DD lever hoist

Item no.	Carrying capacity kg	Price each with 1,5 m lifting
0898 9508	750	Price on enquiry
0898 9516	1.500	
0898 9531	3.000	

- Stable precision drive
- Highly solid, galvanised chain according to DIN EN 818-7
- Chain guide
- All-steel frame, but still light
- All hooks with safety latch, hook rotatable by 360°
- Release for fast pulling through the unloaded chain



Model DD



case

Crane scales Digital crane scale

Dolast

Digital crane scale Do 2050/TKA

The digital crane scales TKA and TWF are compact measuring instruments for the identification of loads in lifting devices. They can be fastened between the hook of the lifting device and the load using the components of grade 8. The crane scales are equipped with a LCD-display. This shows either the gross or net weight of the load or the maximum weight. In addition to that it signalizes overload (110% of the gross load) as well as the battery charge condition. Precision: +/- 0,1 % of the nominal load. Working temperature range: -10° to + 50°C. Storage temperature range: -20° to +70°C.

Item no.	Weighing range kg	Price each
0804 5101	0- 1.000	Price on enquiry
0804 5201	0- 2.000	
0804 5321	0- 3.200	
0804 5501	0- 5.000	
0804 5801	0- 8.000	
0804 5112	0-12.000	

- Housing 180° rotatable
- Peak value memory
- Integrated rechargeable battery
- About 200 hours of operating time at 20°C.

Equipment and processing:

- High measuring precision
- Low own weight
- Good readability
- Simple handling
- Excellent quality
- Solid design

Scope of delivery:

- Digital crane scale
- Battery charger
- Storage box
- Test certificate

Model Do2050 TWF available with remote control – please inquire!



Do 2050/TKA

Available with remote reading device – please inquire!

Do 2250 display crane scales

- Hydraulic, maintenance-free
- Stable housing
- Hook with safety snap
- Shock-proof rubber sleeve with zero taring
- Font size 12 mm

Item no.	Weighing range up to kg	Scale each kg	Height mm	Weight approx. kg	Price each
0845 5002	200	1	230	5,0	Price on enquiry
0845 5005	500	2	230	5,0	
0845 5007	750	5	230	5,0	
0845 5012	1.250	5	230	5,0	
0845 5020	2.000	10	230	5,0	
0845 5032	3.200	20	280	5,5	
0845 5050	5.000	20	300	6,5	



Do 2120 digital crane scale and crane scale

Item no.	max. measurement range up to kg	min. meas. range kg	LCD digit height mm	Construction height above all mm	Weight approx. kg	Price each
0845 3002	250	0,1	18	190	1,1	Price on enquiry
0845 3005	500	0,2	18	190	1,1	
0845 3012	1.250	0,5	18	190	1,1	
0845 3025	2.500	1,0	18	214	1,4	
0845 3050	5.000	2,0	18	234	1,9	
0845 3125	12.500	5,0	25	310	3,8	
0845 3250	25.000	10,0	25	360	6,6	
0845 3500	50.000	20,0	25	440	15,0	
0845 3100	100.000	50,0	25	660	46,0	

0845 3000 Remote reading device with 10-m cable on enquiry

Light, compact and solid. Tara suppression over the entire measurement range. Peak value display in standard production, automatic setting to zero when turning on. Switch-off automatic to save the battery. Low power consumption: 250 operating hours and more with

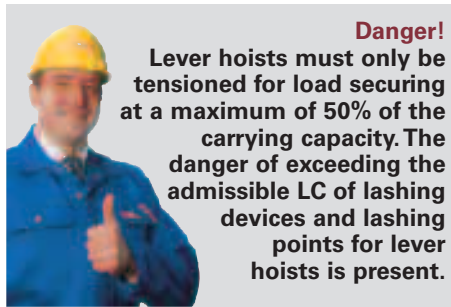
only one set of batteries. Connection to print/ save the date to a printer/PC. Remote reading device, shackle and hook as accessories. Precision +/- 0.2% from the end value. Temperature range - 10° to + 40° C.



Available with remote reading device – please inquire!

Hebelzüge

DoLast



Danger!

Lever hoists must only be tensioned for load securing at a maximum of 50% of the carrying capacity. The danger of exceeding the admissible LC of lashing devices and lashing points for lever hoists is present.

Do UNOplus lever hoist

Item no.	Carrying capacity kg	Price each with 1,5 m lifting
0884 3075	750	Price on enquiry
0884 3150	1.500	
0884 3300	3.000	
0884 3600	6.000	

Do BR lever hoist

Item no.	Carrying capacity kg	Price each with 1,5 m lifting
0884 8025	250	Price on enquiry
0884 8050	500	
0884 8075	750	
0884 8150	1.500	
0884 8300	3.000	
0884 8600	6.000	

Do UNOplus + Do BR lever hoist

- Stable precision drive
- Highly solid, galvanised chain according to DIN EN 818-7
- Chain guide
- All-steel frame, but still light
- All hooks with securing, hook rotatable by 360°
- Release for fast pulling through the unloaded chain

Do AL lever hoist

Compact design, housing and hand lever made from aluminium alloy. Small own weight. Highly solid round steel chain in accordance with DIN EN 818-7.

Benefits:

- Low manual force required
- Short hand lever
- Chain release
- Joint carrying hook

Do D 85 lever hoist with round steel chain Do C 85 lever hoist with roller chain

Carrying capacity 750 - 10.000 kg

Enclosed housing made from high-value cast iron, solid overall construction. The load chain wheel of the round steel chain run made from nodular iron with precisely designed chain pockets ensures care and longevity of the load chain. The load chain wheel of the roller chain design made from chrome steel/ molybdenum steel with precise gearing and the chain run inserted in the housing ensures error-free chain run.

Optional

All devices can be equipped with overload safety which is designed as a slipping clutch and triggers at an overload of 25%.

Item no.	Do	Carrying capacity kg	Price each with 1,5 m lifting
0802 0750	D 85	750	Price on enquiry
0881 9915	D 85	1.500	
0802 3000	D 85	3.000	
0802 6000	D 85	6.000	
0802 9999	D 85	10.000	
0881 9075	C 85	750	
0881 9150	C 85	1.500	
0881 9300	C 85	3.000	
0881 9600	C 85	6.000	
0881 1000	C 85	10.000	

Nearly unlimited applications in industry, crafts, mining, construction and shipyards. Reliable and stable in every area of application. Ideal for moving and positioning of heavy machines and lashing of heavy loads. Makes laying pipes in ducts and trenches easier.



Do UNOplus

Do BR

Do AL

Do C 85

Do D 85

Rent rather than buy!

You will find the Dolezych rental service for lifting appliances at: www.dolezych.de

**Manual trolleys
Beam clamps
Trolley stoppers**

Dolast

Do 190 / Do 191 manual trolleys

Item no.	Carrying capacity kg	Beam flange width		Smallest curve radius m	Weight*		Price each	Price each	
		Type A mm	Type B mm		Type A approx. kg	Type B approx. kg			
Do 190 with manual trolley								Typ A	Typ B
0898 0005	0898 0004	500	50-220	160-300	0,90	8,00	10,6	Price on enquiry	Price on enquiry
0898 0010	0898 0040	1.000	50-220	160-300	0,90	9,00	12,0		
0898 0020	0898 0120	2.000	66-220	160-300	1,15	16,00	19,3		
0898 0030	0898 0130	3.000	74-220	160-300	1,40	32,00	35,8		
0898 0050	0898 0051	5.000	90-220	180-300	1,80	48,00	52,2		
Do 191 with chain trolley									
0898 1005	0898 1006	500	50-220	160-300	0,90	9,7	12,6	Price on enquiry	Price on enquiry
0898 1010	0898 1012	1.000	50-220	160-300	0,90	11,2	14,1		
0898 1020	0898 1035	2.000	66-220	160-300	1,15	18,0	21,3		
0898 1030	0898 1031	3.000	74-220	160-300	1,40	35,4	39,2		
0898 1050	0898 1052	5.000	90-220	180-300	1,80	51,8	56,0		

*Weight Do 191: without chain

- Compact construction with low headroom height
- Adjustable for various beam and profile areas (INP, IPE und PB)
- Fine adjustment through eye beam with counter thread
- Centric suspension of the block chain – no lateral movement on the beam
- Roller made from grey cast iron
- Smooth running properties due to the ball bearing
- Serial tilt securing



Do 193 BK + 194 BR beam clamps

Do 193 BK – beam clamp for a fast, easy and safe creation of a lifting point. Adjustable to different beam sizes.

Do 194 BR – beam clamp with manual trolley, steel roller with ball bearing.

Do 193 BK Item no.	Carrying capacity kg	Flange width mm	Price each
0898 3010	1.000	75-230	Price on enquiry
0898 3020	2.000	75-230	
0898 3031	3.000	80-320	
0898 3052	5.000	90-320	
0898 3100	10.000	90-320	

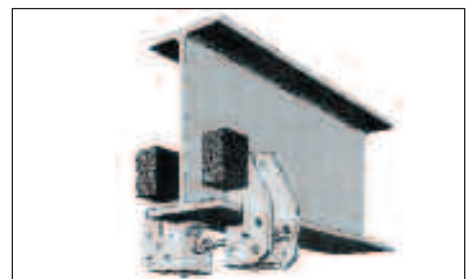
Do 193 BR Item no.	Carrying capacity kg	Flange width mm	Price each
0898 4011	1.000	64-203	Price on enquiry
0898 4021	2.000	76-203	
0898 4031	3.000	76-203	
0898 4051	5.000	100-305	



Do 920 trolley stopper

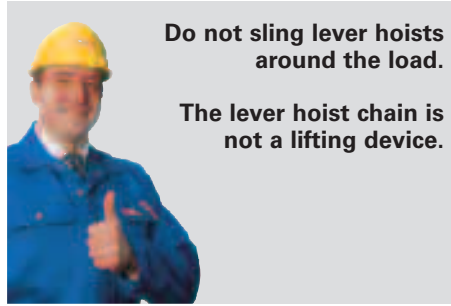
The ideal trolley drive end stopper, suitable for manual bobbin chain and electronic drives of all kinds up to max. 10.000 kg carrying capacity.

Item no.	Beam width mm	Price each
0898 3990	50 - 104	on enquiry
0898 3992	90 - 300	on enquiry



Lever Hoist Hoist Premium

DoLast



Lever hoist Do PLH

The PLH lever hoist is of especially high quality. Frame, drive and brake housing are reinforced.

Free-wheel switching

Without a load, the chain can be quickly brought to the desired length with the easy-to-use free-wheel switch. This saves time, because the difficult leveraging to manually tension the chain is not required.

Load chain

A high-quality, galvanised load chain with the quality properties of DIN 5684 in grade 80 with quality stamp H-80 is included in the standard delivery with a length of 1.5 m. Additional hoist leverage as required.

Chain run

The form-fit run made from chromated steel sheet always keeps the chain in the drive bolt and prevents the intrusion of dirt and rain.

Item no.	Carrying capacity kg	Price each with 1,5 m lifting
0884 1075	750	Price on enquiry
0884 1150	1.500	
0884 1300	3.000	
0884 1600	6.000	
0884 1900	9.000	

Protected lever

At the end of the lever, there is a lever coating which prevents injuries to hands.

Technical benefits:

- Security disc brake
- Galvanised connecting parts
- Hook with galvanised safety snap
- Large lever and closed hand wheel to protect the fingers
- Upon enquiry with overload securing as slipping coupling, subject to a surcharge – please enquire.



Chain block Do 900 PLS

Compact and light

Do 900 PLS is made from highly solid steel according to the state of the Item. The compressed design allows short construction heights, the low own weight offers easy carrying.

Load chain

High quality and galvanised load chain with the quality properties of DIN 5684 in grade 80.

Chain guide

The guide made from coated steel sheet always keeps the chain in the drive bolt and prevents the intrusion of dirt and rain.

Chain stopper

It prevents the load chain from falling out in the bottom end position, especially important when lowering large weights.

Safety brake

It always automatically holds the load reliably in both directions, including

Item no.	Carrying capacity kg	Price each with 3,0 m lifting
0889 3005	500	142,00
0889 3010	1.000	169,00
0889 3015	1.500	240,00
0889 3020	2.000	283,00
0889 3030	3.000	338,00
0889 3050	5.000	555,00
0889 3100	10.000	1128,00

after a long period of use through best, asbestos-free brake blocks. Two snatches work on the ratch wheel.

Double housing

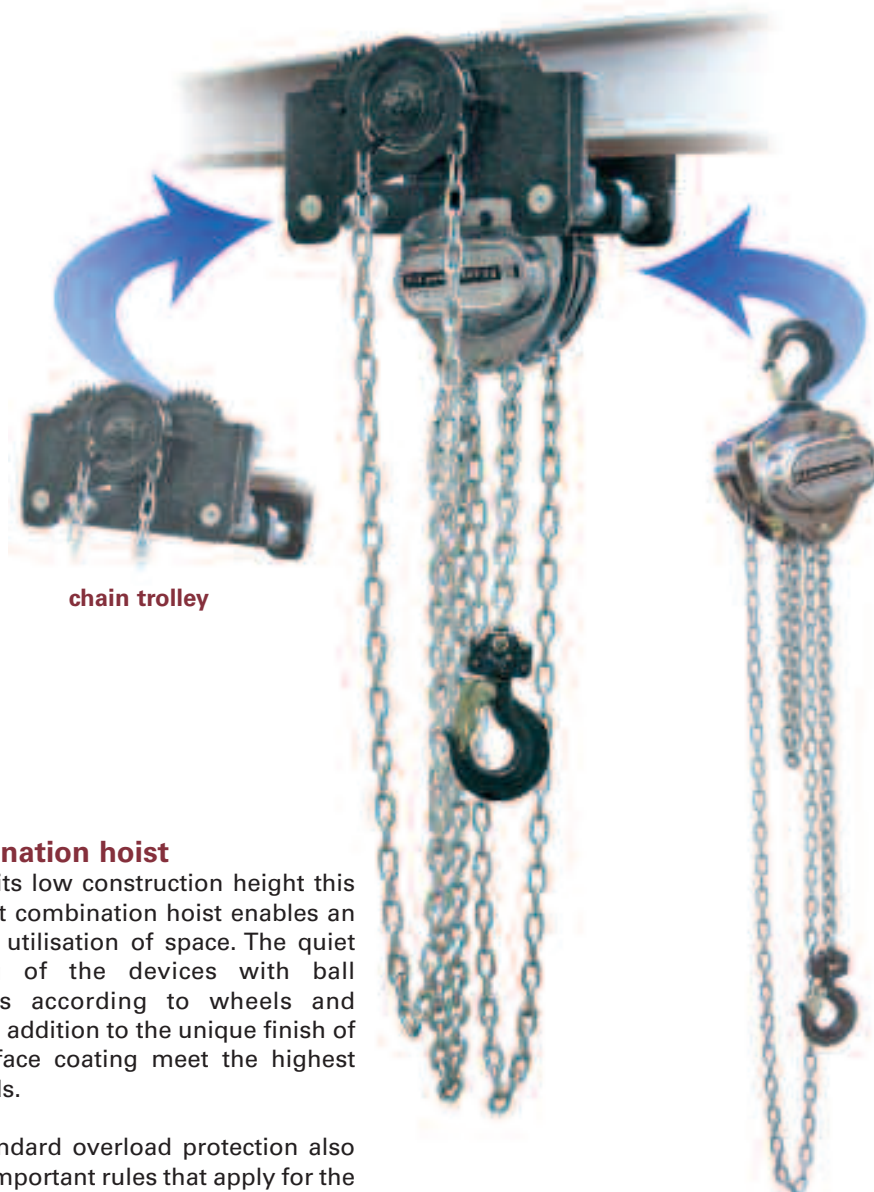
Both the brake coverage and the hand wheel cover are designed so that dirt is kept away from brake, the block handle and the hand wheel during rough operation.

New: Overload securing

Equipped with default overload securing which allows the manual chain to slip in the event of an overload. Even more security included.



Up to a carrying capacity of 3t in one-leg design and therefore quickly operational.



chain trolley

Compact combination hoist with manual trolley and chain trolley

Dolast

Combination hoist

Due to its low construction height this compact combination hoist enables an optimal utilisation of space. The quiet running of the devices with ball bearings according to wheels and gears in addition to the unique finish of the surface coating meet the highest demands.

The standard overload protection also meets important rules that apply for the use on ocean-going vessels.

Advantages of a combination hoist:

- Optimal utilisation of space
- Reduction of break down times in engine rooms of ships
- Affordable bridge and jib cranes
- Saves time during reparation and maintenance times

Chain block with built-in manual trolley Do 901/R-LHT

Chain block with built-in chain trolley Do 901/H-LHT

Item no. manual trolley	Item no. chain trolley	Carrying capacity kg	Number of chain strands	normal lifting height m	chain size mm	beam flange width mm	Min. construction height mm	Price manual trolley	Price chain trolley
0899 5405	0899 5406	500	1	3	5 x 15	50-152	229	Price on enquiry	Price on enquiry
0899 5410	0899 5412	1.000	1	3	6,3 x 19	64-203	331		
0899 5415	0899 5416	1.500	1	3	7,1 x 21	74-203	383		
0899 5420	0899 5421	2.000	1	3	8 x 24	88-203	411		
0899 5430	0899 5431	3.000	1	3	10 x 28	100-203	461		
0899 5450	0899 5451	5.000	2	3	9 x 27	114-203	655		
0899 5475	0899 5476	7.500	3	3	9 x 27	124-203	707		
0899 5411	0899 5413	10.000	4	3	9 x 27	124-203	745		



The Dolezych-inspection service:

It is your choice! The **Service – Car** comes to you and does all necessary inspections on-the-spot. Alternatively you can send the products to be tested to us. All necessary repairing and maintenance will be done immediately.

Compact electric chain hoists

DoLast

Electric chain hoist Do 910 MONTI (hook suspension)



Carrying capacity	kg	240	480
Lifting speed 2-level	m/min.	0-3,4 / 12,8	0-1,6 / 6,3
Number of chain legs		1	2
Engine power	W	600	600
Chain size	mm	4 x 12	4 x 12
Connection voltage 1-phase		230 V, 50 Hz	230 V, 50 Hz
Power	A	5	5
Weight with 3 m lifting	kg	16,5	19,4
Case dimensions (L x W x H)	mm	470 x 390 x 200	470 x 390 x 200
MONTI with hook suspension		0899 0338	0899 0339
Price each		on enquiry	on enquiry

Ready-for-use with controller, chain and power cable.

- 230 V/1ph/50 Hz engine
- Available for 240kg and 480kg
- The gentle start-up enables exact positioning
- 24 Volt control voltage with emergency-stop
- 2 speeds:
Main lifting speed / precision lifting speed infinitely adjustable

- Protection type IP 54, insulation class F
- Classification in accordance with FEM: 1 Am (M4)
- Length of control cable 2.5m, power cable with safety plug
- Overload protection by slipping clutch
- Limit switch for the highest and the lowest hook end position
- Including chain buffer for 3 m standard lifting height.

Technical overview:

The new electric chain hoist MONTI provides ideal support for mounting. Due to its light and compact design, it can be installed quickly and is easy to transport in a handy case.

Electric chain hoist Do 910 CPS



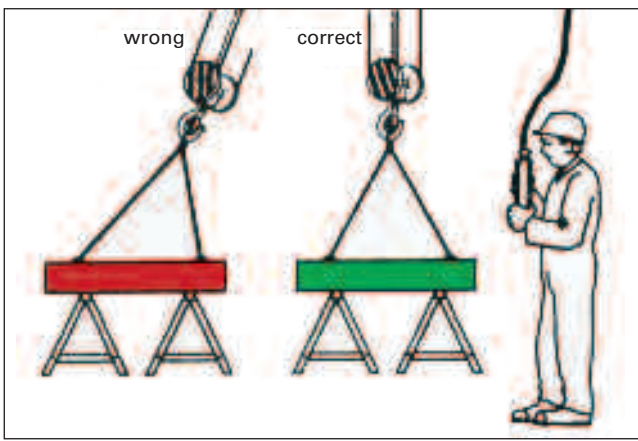
Item no.	Carrying capacity kg	no. load strands	Standard lifting height m	Chain dim. d x t mm	Lifting speed m/min	Lifting engine	Weight kg	Operating voltage	Price each
0899 0562	125	1	3	4 x 12,2	4	0,10	11,5	230V/1 Ph/50 Hz	Price on enquiry
0899 0561	125	1	3	4 x 12,2	10	0,25	11,5	400V/3 Ph/50 Hz	
0899 0560	250	1	3	4 x 12,2	6	0,28	11,5	400V/3 Ph/50 Hz	
0899 0556	500	2	3	4 x 12,2	3	0,28	12,5	400V/3 Ph/50 Hz	

Do 910 CPS electric chain hoist with hook, carrying capacity 125 - 500 kg

The Do 910 CPS model is one of the smallest and lightest electric chain hoists. Its reliability in combination with its compact design make it an ideal device for installation in the construction sector, in crafts operations and in the area of small and medium loads.

- Extremely low construction height
- 10-pocket load chain wheel for the smallest possible wear and tear and optimum chain run

- Thermal overload protection as standard
- Electromagnetic spring pressure brake safely holds the load even in the event of a power cut
- Solid, powder-coated housing made from aluminium
- Protection type IP 54, against the intrusion of dust and water



Electric chain hoists 400 voltage

Dolast

Electric chain hoist Do 910 GCHO hook suspension

Carrying capacity	kg	250	500	500	1.000	1.000	2.000
Lifting speed 2-level	m/min.	8 / 2	4 / 1	8 / 2	4 / 1	8 / 2	4 / 1
Number of chain strands		1	2	1	2	1	2
Engine power N / F	kW (18 m)	0,36 / 0,09	0,36 / 0,09	0,72 / 0,18	0,72 / 0,18	1,45 / 0,36	1,45 / 0,36
Chain dimension	mm	4 x 12,3	4 x 12,3	5 x 15,3	5 x 15,3	7 x 22	7 x 22
Connection voltage 3-phase		400 V, 50 Hz	400 V, 50 Hz	400 V, 50 Hz	400 V, 50 Hz	400 V, 50 Hz	400 V, 50 Hz
Power	A (18 m)	2,7 / 3,0	2,7 / 3,0	2,9 / 3,0	2,9 / 3,0	4,0 / 3,0	6,0 / 3,0
Weight with 3 m lifting	kg	17	19	18	20	46	51
Do 910 with hook suspension		0899 2554	0899 2225	0899 2556	0899 1032	0899 2720	0899 2732
Price each with 3,0 m lifting		on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry


Overview of the technology

Compact design with small hook dimensions

- Main and fine lifting speeds in standard serial production
- Galvanised load chain
- Upper hook suspension
- Wear-and-tear-resistant and maintenance-free dry lamella brake for high switching numbers
- Overload securing through slipping clutch protects against overload and limits the lifting distance
- Design according to F.E.M. in 1 Bm 25% ED, 150 S/h
- Operating voltage 3/400 volts/50 Hz
- High level of protection against dust and humidity, type IP 55
- Insulation class F
- Direct control
- 2 years guarantee
- Certified by DIN ISO 9001: 2000
- incl. test book according to CE and UVV regulations



These designs are also available on enquiry:

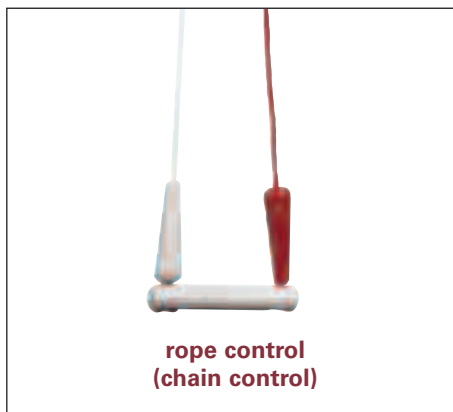
Electric chain hoists for one-phase AC 230 V / 50 Hz and electric chain hoists in dust-protected -design available on enquiry.



Pneumatic hoists

Chain blocks

DoLast



Pneumatic hoist Do TCR, Carrying capacities 250 - 3.000 kg

Model	250 C/P	500 C/P	1000 C2/P	1000 C/P	2000 C2/P	3000 C/P
Carrying capacity (air pressure 6 bar - 1Bm) kg	250	500	1.000	1.000	2.000	3.000
Lifting speed without load m/min	19	20,5	10,3	11,3	5,7	5,7
Lifting speed at nominal load m/min	14	10,5	5,3	6	4,5	3,8
Drop speed without load m/min	21	16	8	9	6,8	6,5
Drop speed with nominal load m/min	23	25	12	14	7	7
Air consumption at full load l/sec	21,6	25	25	25	25	33
Number of chain strands	1	1	2	1	2	1
Weight at standard lifting kg	30	31	34	35	40	69
Air duct R inch	1/2	1/2	1/2	1/2	1/2	1/2
Chain size (diameter) mm	6,3	6,3	6,3	7,1	7,1	11,2
TCR with 3 m lifting and chain control	0818 0525	0818 0550	0818 0510	0818 0515	0818 0520	0818 0530
Price each	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry
TCR with 3 m lifting and button control	0818 0526	0818 0551	0818 0511	0818 0516	0818 0521	0818 0531
Price each	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry

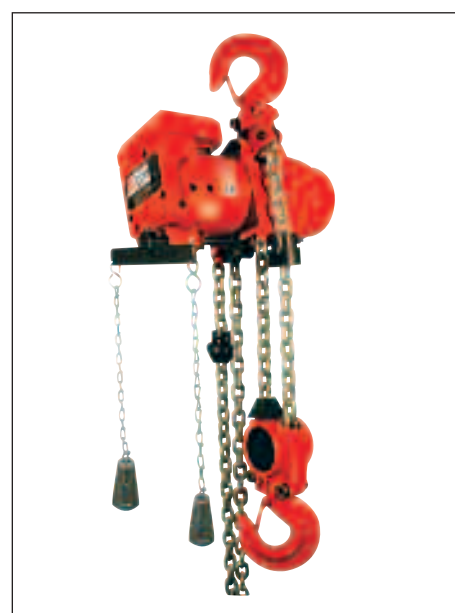
Pneumatic hoist Do TCR, Carrying capacities 6.000 25.000 kg

Model	6-C2/P2	10-C2/P2	12-C4/P4	15-C5/P5	20-C4/P4	25-C2/P2
Carrying capacity (air pressure 6 bar - 1Bm) kg	6.000	10.000	12.000	15.000	20.000	25.000
Lifting speed without load m/min	2,9	2,5	1,5	1	1,2	1,3
Lifting speed at nominal load m/min	1,4	1,5	0,9	0,7	0,8	0,8
Drop speed without load m/min	2,1	2,3	1,4	1,1	1,2	1,2
Drop speed with nominal load m/min	3,5	3,0	1,8	1,2	1,4	1,5
Air consumption at full load l/sec	33	90	33	33	90	120
Number of chain strands	2	2	4	5	4	2
Weight at standard lifting kg	90	190	170	221	240	320
Air duct R inch	1/2	1	1/2	1/2	1	1
Chain size (diameter) mm	11,2	16	11,2	11,2	16	22
TCR with 3 m lifting and chain control	0818 0560	0818 0570	0818 0580	0818 0590	0818 0502	0818 0505
Price each	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry
TCR with 3 m lifting and button control	0818 0561	0818 0571	0818 0581	0818 0591	0818 0503	0818 0506
Price each	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry

Ranges of application:

Carrying capacity should not be the sole factor by which a hoist is judged. Factors like simple handling, type of application, frequency of use, speed required and the precision of the steering should also be taken into consideration. The pneumatic hoist Do TCR can be used in every field, where electric hoists are usually applied. Moreover it is specially designed for operating in explosion-endangered areas or corrosive environments as the engine is spark-proof and withstands environmental influences. That is the reason why cost-intensive protective measures are not even necessary to start with. The low air consumption and its low price make the Do TCR a very lucrative product.

- Steering free of disturbances due to overload protection from 1 t carrying capacity.
- Small dimensions and a light construction
- Variable speeds allow for accurate and precise positioning of the load
- The steering made of a knotted link chain reacts very sensible due to its direct connection to the shift rod
- Operating pressure 6 bar
- Appropriate for the operation in explosion-endangered areas up to EX-zone 2 and 22, II B, T 4
- Extremely sensible direct steering with emergency stop
- Chain buffer for hoisting up to 3 m as a standard
- Lifting height 3 m, length of power cable 2 m (max.)





The pneumatic hoist Do CPA is designed for operating in explosion-endangered areas according to II 3 GD IIA T4. Chain block Do 900 PLS EX and manual trolley Do 190/191 EX are appropriate for the use in II 2G IIC c T3 – Zone 1.

Mini Pneumatic hoists Chain blocks Manual trolleys

For explosion-endangered areas

Dolast

Pneumatic hoist Do CPA, carrying capacities 125 - 990 kg

Item no.	Carrying capacity kg	Lifting speed at nom. power m/min.	Lifting speed. w/o load m/min.	Drop speed at nom. power m/min.	Air con. at nom. power m/min.	Engine power kW	Weight at 3 m lift	Price each
0818 0312	125	15	40	30	0,5	0,4	9,5	Price on enquiry
0818 0325	250	8	20	16	0,5	0,4	10,5	
0818 0350	500	10	20	18	1,2	1,0	21	
0818 0399	990	5	10	10	1,2	1,0	23	

Higher carrying capacities on request

The engines with integrated braking function are designed as permanent runners, for unlimited switching frequency and switch-on duration. They are characterised by extremely smooth running.

The low number of components of the solid aluminium housing enables simple and fast maintenance.

With its small construction height and its low weight, the Do CPA pneumatic chain hoist is very handy and easy to transport.

- Operating pressure 6 bar
- Suitable for use in explosion-endangered areas in accordance with II 3 GD IIA T4
- Extremely fine direct control with EMERGENCY OFF, max. control length 6 m
- Chain storage up to 8 m lift in standard production

Optional

- Trolleys
- Pressure limitation valves to prevent unintentional excess of carrying capacity
- Maintenance unit consisting of pressure control, manometer, oiler and holder



Chain block Do 900 PLS EX

Item no.	Carrying capacity kg	Price each with 3 m lifting
0899 5000	500	Price on enquiry
0899 5100	1.000	
0899 5101	1.250	
0899 5210	2.000	
0899 5320	3.200	
0899 5532	6.400	

Thanks to the specially developed surface treatment and constructive measures, Do 900 PLS can be used in explosion-endangered areas. Designed in accordance with EU Directive 9/9/EC (ATEX Directive).

Furthermore, the housing components of the PLS-EX lifting hoist are finished with a ZINCAL coating which provides ideal corrosion protection. These lifting hoists are therefore also suitable for off-shore use.



Do 190 EX manual trolley Do 191 EX manual trolley with chain trolley

Item no.		Carrying capacity kg	Beam flange width mm	Smallest curve radius m	Weight approx. kg	Price each	
Do 190 EX	Do 191 EX					Do 190 EX	Do 191 EX
0898 0108	-	500	55-102	0,8	3	Price on enquiry	Price on enquiry
0898 0118	0898 0218	1.000	55-102	1,0	5/6		
0898 0128	0898 1028	2.000	74-127	1,3	11/12	Price on enquiry	Price on enquiry
0898 0138	0898 1238	3.200	90-143	1,5	18/19		
0898 0158	0898 1258	5.000	106-156	1,8	31/32		

*Weight Do 191 EX: without chain

High corrosion resistance due to galvanized steel components.



This is ideal for use in wet rooms and aggressive environments.



Electric rope winches

DoLast



Custom-tailored to your use, Dolezych provides the suitable design.

Rope lengths, speeds and additional fittings can be freely selected.

Winch (electric rope winch, 12 + 24 volts)

With direct current engine, optionally for 12 or 24 volts. For industry, crafts and agriculture. For offroad vehicles, car transporters, workshops, boat trailers. **Tested, accepted and licensed by professional associations.**

Traction in accordance with DIN 15020. (Do 850 E and Do 860 E).

Do GP electric rope winch, 12 V DC

Winch type	GP 2300	GP 3000
Item no.	0881 0023	0881 0030
Traction:		
1. rope position	kg 1.040	1.360
Rope acceptance	m 18,2	18,2
Rope diameter	mm 4	4
Weight approx.	kg 6,4	6,8
Price each	on enquiry	on enquiry

Do EP electric rope winch, 12/24 V DC

Winch type	EP 9	EP 15
Art no. 12 V	0881 0009	0881 0015
Item no. 24 V	0881 0011	0881 0017
Traction:		
1. rope position	kg 4.080	6.800
Rope acceptance	m 30	27
Rope diameter	mm 9	12
Weight approx.	kg 45	55
Price each 12 V	on enquiry	on enquiry
Preis je Stück 24 V	on enquiry	on enquiry



Do GP



Do EP



Do S electric rope winch, 12/24 V DC

Winch type	S 3000	S 4000	S 5000
Item no. 12 V	0881 0030	0881 0040	0881 0050
Item no. 24 V	0881 0031	0881 0041	0881 0051
Traction:			
1. rope position	kg 1.360	1.820	2.270
Weight approx.	kg 17,3	18,2	19,1
Price each 12 V	on enquiry	on enquiry	on enquiry
Price each 24 V	on enquiry	on enquiry	on enquiry



Do S

Do 850E electric rope winch, 12/24 V DC

Winch type	X 2-G	X 3-G	X 6 CD-G
Item no. 12 V	0881 4152	0881 4154	0881 4160
Item no. 24 V	0881 2152	0881 2154	0881 4161
Traction:			
1. rope position	kg 887	1.060	1.580
Traction:			
last rope position	kg 489	754	993
Rope acceptance	m 12,2	12,2	30,0
Rope diameter	mm 6	7	7
Weight approx.	kg 10	15	28
Price each 12 V	on enquiry	on enquiry	on enquiry
Price each 24 V	on enquiry	on enquiry	on enquiry

Do 860E electric rope winch, 12/24 V DC

Winch type	X 9-G	Husky-G	E 10-G
Item no.	0881 4192	0881 2172	0881 4193
Item no.	0881 4194	0881 4172	0881 4191
Traction :			
1. rope position	kg 2.040	2.700	3.000
Rope acceptance	m 30	30	30
Rope diameter	mm 8	10	11
Weight approx.	kg 34	50	60
Price each 12 V	on enquiry	on enquiry	on enquiry
Price each 24 V	on enquiry	on enquiry	on enquiry



Do 850 E



Do 860 E



The ideal aids en route
– small, light and still
powerful

Rope winch Swivel Arm Electric Rope Winch

Dolast

Electric Rope winch Do 930 C-80 and C-230



Item no.	Lift or pulling cap. kg	Lifting speed* m/min.	Lifting height (rope length) m	Drive Volt	Power kW	Rope diameter mm	Weight kg	Dimensions LxBxT mm	Price each
0898 8043	80	18-30	23	230	0,8	4	16	605x200x168	on enquiry
0898 8044	230	9-14	24	230	1,3	5	25	640x244x182	on enquiry

* at full load

Due to its light and compact design this rope winch is very easy to install. If the rope sheave touches the confinement arm while lifting, the process is immediately stopped by the upper limit switch. Equipped with two brakes, dynamic and mechanic, a secure and immediate braking effect is achieved at all times.

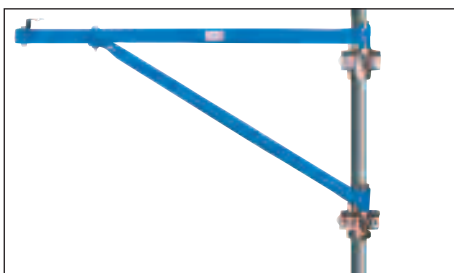
- Automatic engine cut-off if the rope is wound.
- Power cable of 5m, shockproof plug
- Ready for use with rope and safety hooks

- 10m of control cable for remote control
- Rotatable hooks up to 360° with safety interlock
- Engine has a degree of protection of IP 44
- Control IP 65, waterproof with emergency stop

Optionally available:

- Swivel arm, 180°
- 10m of additional control cable

Swivel Arm Do 930 for rope winches



Item no.	Carrying capacity kg	reach mm	Weight kg	Price each
0898 8045	230	1.000	10	on enquiry

With the help of two clamps (clamping range 48-55 mm) it can be clamped to a solid, vertical pipe. Mount the rope

winch – done! Please pay attention to the statics of the site.

Do 935 portable electric rope winch for any lifting height, fast installation and use



Item no.	Carrying capacity kg	Lifting speed m/min.	Drive Volt	Power kW	Rope diameter mm	Weight kg	Price each
0877 9810	100	15	230 A*	0,37	6,5	21	Price on enquiry
0877 9831	300	5	230 A*	0,37	6,5	21	
0877 9830	300	12	400 R*	1,10	6,5	31,6	

* A = alternating current * R = rotating current

- Light and handy
- For lifting with every rope length

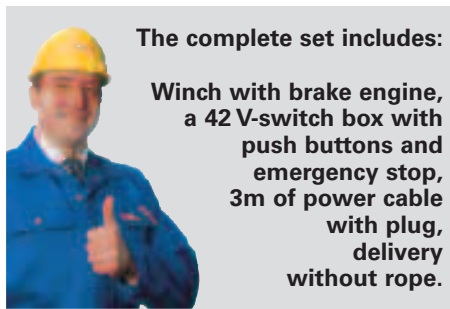
in a steel plated box (for 100kg carrying capacity) or cardboard (for 300kg carrying capacity).

The delivery includes 2,5m of control cable, winch with 10m of rope, hooks, 2 control panels with allen key, packaged

Engine rope winches with carrying capacities of up to 3 t are also available – please enquire.

Electric Rope Winch

DoLast



The complete set includes:

Winch with brake engine,
a 42 V-switch box with
push buttons and
emergency stop,
3m of power cable
with plug,
delivery
without rope.



Electric Rope Winch Do 810/B-MCW 400 Volts (with brake engine – lifting winch)

Winch type	Do 810/B	MCW250	MCW500	MCW750	MCW1200	MCW1700	MCW2200	MCW2800
Item no.		0881 3102	0881 3105	0881 3109	0881 3113	0881 3117	0881 3122	0881 3128
Max. traction 1. rope position	daN	250	500	750	1.200	1.700	2.200	2.800
Max. traction 5. rope position	daN	170	340	490	750	1.055	1.365	1.745
Max. lifting force 1. rope position	kg	200	400	600	960	1.300	1.700	2.000
Max. lifting force 5. rope position	kg	135	275	390	600	805	1.055	1.245
Recommended rope diameter	mm	6	6	7	8	10	12	13
Speed 1. rope position	m/min	6	6	6	5	6	7	8
Rope acceptance 1. rope position	m	2	2	6	5	7	9	11
Rope acceptance 5. rope position	m	19	19	42	38	50	63	76
Engine power	kW	0,75	1,1	1,5	2,2	4	5,5	7,5
Weight without rope and accessories	kg	22	35	55	92	140	180	254
Price complete model (without rope) each		on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry	on enquiry

MCW

With worm gear as pulling winch. Suitable for the horizontal pulling of loads up to 2,800kg, like for example to maneuver wagons, to get engineless vehicles into halls or to move felled trees. If a load is lifted up/let down or has to be moved on an inclined surface, then the engine has to be operated as brake engine to be able to stop descending loads up to 2,000kg immediately. Operation up to 100% ED, protection type IP 54, 3-Ph / 400 Volt / 50 Hz.

Ready for use:

Our complete set is ready for immediate use. No further components have to be bought for operation. As there is no rope included in the set, we recommend selecting a rope of suitable length and with the appropriate hooks from our diverse rope program.

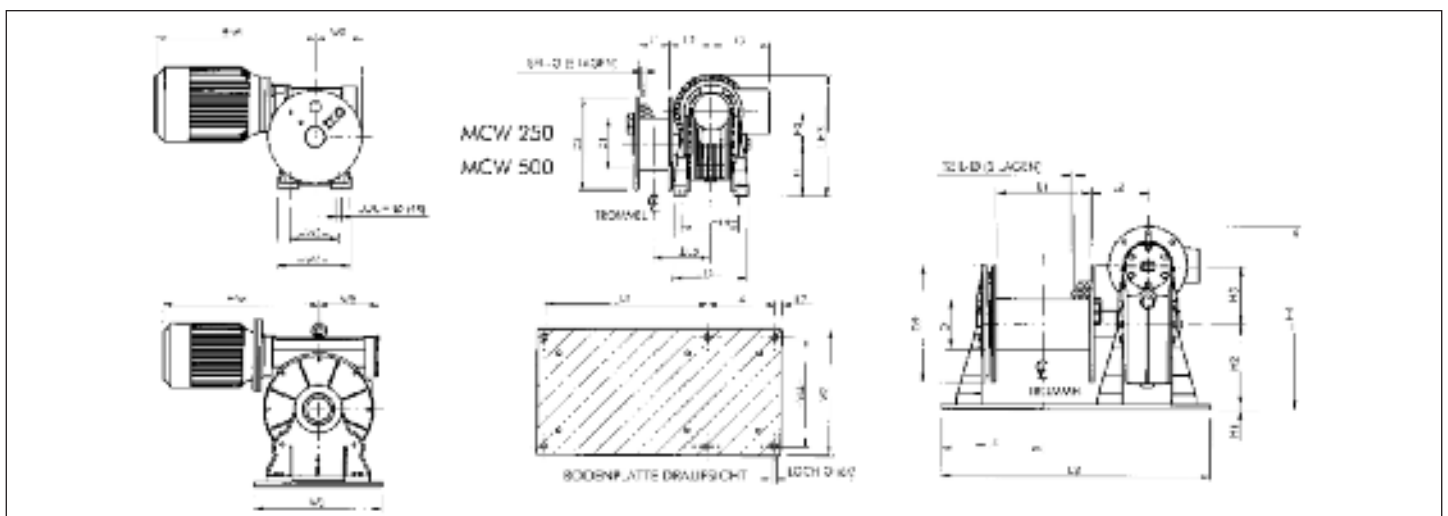
Safety:

All winches have a switch box with overload protection and a remote control with emergency stop.

Marine version:

If you want to use the winch on board, at a shipyard or in the offshore area or just to ensure a long operating life in spite of rough weather conditions, then we recommend the marine version. The engine has a protection type of IP 56 (S2/40% ED), all surfaces are sandblasted, zinc undercoated, protected by a 2-component-marine-painting with regards to primer and topcoat.

Further winches on request!



Type	Weight kg	Dimensions (mm)																	
		D1	D2	L1	L2	L3	L4	L5	L6	L7	H1	H2	H3	H4	W1	W2	W3	W4	Hole Ø
MCW 250	20	100	180	60	81	118	111	111	143	-	100	62	233	-	310	90	95	140	11,5
MCW 500	35	100	200	60	91	129	146	121	186	-	142	87	309	-	358	110	140	220	11,5
MCW 750	55	100	200	150	104	500	187	320	150	15	10	142	87	320	358	110	270	240	13
MCW 1200	92	100	250	150	125,5	560	203	340	180	20	10	170	110	380	421	140	325	285	17
MCW 1700	140	121	280	200	146,5	640	232	415	185	20	15	195	130	443	492	154	370	320	17
MCW 2200	180	146	320	250	155	710	260	470	200	20	15	220	150	510	519	180	410	360	17
MCW 2800	254	159	370	300	180	850	318	565	235	25	15	254	182	579	546	207	440	380	20



Custom-tailored to your use,
Dolezych provides the
suitable design.

Rope lengths, speeds and
additional fittings can
be freely selected.

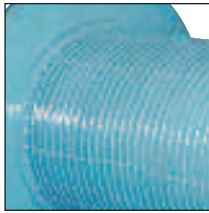
Features compact electric rope win- ches

Dolast

Equipment and special models:



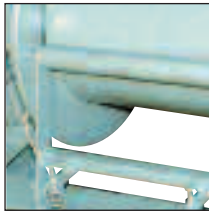
IP Protection
42 Volt



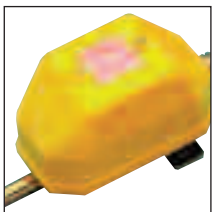
Fluted drum



Pendant control



Rope pressure roll



Spindle limit
switches



Overrunning
clutch

Mounting position:

Electric rope winches of the series MCW and MCW-SPH are able to operate in all mounting positions.

Complete sets*:

The set includes the winch with brake engine, a 42 V-switch box with push buttons and emergency stop, 3m of power cable with plug, delivery without rope.

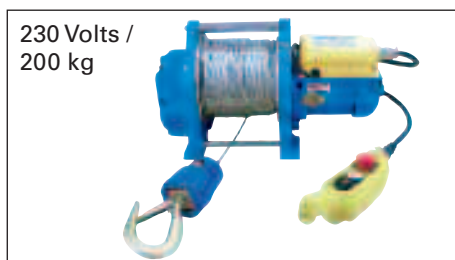
Features:

- Brake engine (aluminum or cast iron)
- Engine with cast iron housing, protection type IP 56, marine version
- 1-Ph/230 Volt/50Hz engines (from MCW 750)
- Explosion-proof engines
- Protective engine housing made of steel
- Overrunning clutch operated manually or via remote control
- Band brake
- Fluted drum
- Rope pressure roll
- Other speeds
- Other drum sizes/divides drums/ additional anchors etc.
- Drum protection
- Emergency hand-wheel
- Marine / offshore systems

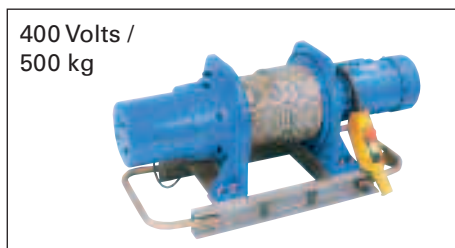
Special accessories:

- Pendant control with push buttons of the protection type IP 65 with emergency-stop button (up to 1.5 kW 1-ph/230 Volts or 2.2 kW 3-Ph/400 Volts).
- Contactor control IP 55 with push buttons and emergency-stop
- Switch box with 24 Volts contactor control
- Overheating protection
- Frequency control for stepless-speed control
- Radio remote control
- Spindle limit switches
- Overrunning clutch

Do PLA-B Compact electric rope winch



230 Volts /
200 kg



400 Volts /
500 kg

Winch type		B-200	B-300	B-500
Item no.		0881 4332	0881 4333	0881 4335
Rope traction at all rope positions	kg	200	300	500
Rope speed at full load	m/min	18	18	-
Rope speed 1. rope position	m/min	-	-	12
Rope speed top position	m/min	-	-	18
Voltage		1-ph / 230 V / 50 Hz	1-ph / 230 V / 50 Hz	3-ph / 400 V / 50 Hz
Power	kW	1,5	2,3	1,5
Lifting height	m	70	58	58
Rope diameter	mm	5	6	9
Rope length	m	71	40	60
Weight with wire rope	kg	40	45	120
Price each		on enquiry	on enquiry	on enquiry

- Delivery includes rope and control
- With 10m of control cable
- With 3m of power cable
- Either with shockproof plug (for PLA-B 200 and 300) or CEE-plug (for PLA-B 500)
- Control IP 65, waterproof with emergency-stop

Rope winches manual operation

DoLast



Do SSW safety rope winch

Do SSW		350	500	900
Item no.		0886 1035	0886 1050	0886 1090
Traction	daN	350	500	900
Drum diameter	mm	38	48	63
Cable wire ø, DIN 3060	mm	4	5	7
Drum capacity	m	15	20	25
Crank length	mm	200	230	300
Hand force	kp ca.	20	20	19
Transmission		2,5:1	3,75:1	8,75:1
Weight without rope	kg	2,15	4,0	7,6
Preis je Stück		on enquiry	on enquiry	on enquiry



Ropes or lashing straps on request.

Please order ropes separately!

For lifting, pulling and dragging with automatic braking mechanism (low

pressure brake) and blowback safety. Easy to use with minimal manual force needed.

Do 190/94 stainless steel rope winch

Artikel-Nr.	Rope traction 1. position kg	Rope ø mm	Rope acceptance m	Crank power 1. position daN	Weight without rope ca. kg	Price each
0881 4205	500	6	25	17	11	on enquiry

Please order ropes separately!

Excellent corrosion resistance, housing and drum made from stainless steel,

drum free-wheel, removable crank, additional fast gear for load-free unwinding of the rope.

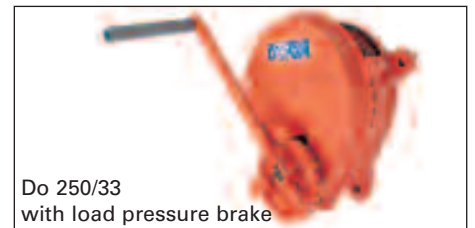


Do 250/33 safety lifting winch

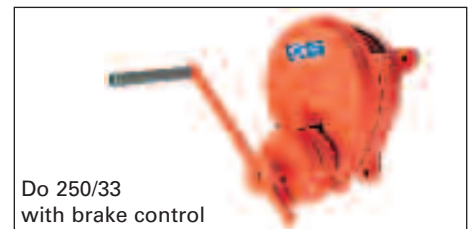
Item no.	Rope traction 1. position in kg	Rope absorption 1. pos. m	Rope absorption top pos. m	Crank force 1. position daN (kg)	Rope ø mm	Weight w/o rope kg	Price each with load press. brake	with crank with brake control
0886 1030 (31)	300	4,8	42,2	10,3	5	27 (34)	Price on enquiry	Price on enquiry
0886 1054 (55)	500	5,2	67,4	15,4	6	42 (50)		
0886 1100 (01)	1.000	6,1	15,3	16,4	9	80 (87)		
0886 1150 (51)	1.500	5,4	13,8	20,3	11	100 (110)		

Please order ropes separately!

The details in brackets apply for the brake control model.



Do 250/33 with load pressure brake



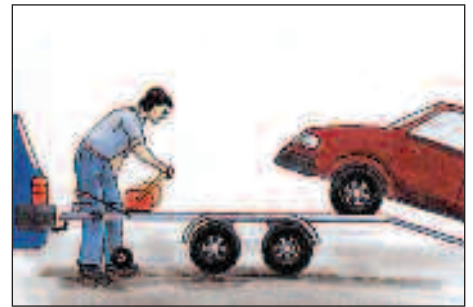
Do 250/33 with brake control

Do GR Carol chain manual winch 250 to 2500 kg

Item no.	Winch type	Carrying capacity			Dia. in mm	Rope length 1. position in m	max. length in m	Number of positions	Force on the crank kg	Lift per crank rotation in kg	Weight w/o rope kg	Price each
		1. position in kg	last position in kg	meter in mm								
0886 1025	GR 150	250	150	4	2,7	22	6	15	185	8	Price on enquiry	
0886 1040	GR 300	400	300	5	5,3	40	6	10	35	16		
0886 1075	GR 500	750	500	7	4,0	20	4	13	35	16		
0886 1125	GR 1000	1.250	1.000	9	6,7	35	4	12	24	38		
0886 1200	GR 1200	2.500	2.000	13	8,0	30	3	13	13	60		

Please order ropes separately!





Do 238/99 worm gear rope winch

Solid design. Removable, length-adjustable crank. Designed as per DIN 15020. Simple rope attachment with rope clamp. From 2,000 kg rope tension, two lifting speeds through spur wheel transmission.

Item no.	Rope traction kg	Rope ø mm	Rope absorpt.		Crank power t 1. pos. daN/kg	Weight w/o rope ca. kg	Price each
			1. pos. m	top pos. m			
0881 4600	250	4	4,0	105	5	13	Price on enquiry
0881 4601	500	6	4,4	68	9	16	
0881 4602	1.000	8	6,0	65	14	26	
0881 4608	1.500	10	5,4	40	20	28	
0881 4603	2.000	11	6,2	57	12	60	
0881 4604	3.000	14	6,8	65	17	78	
0881 4605	5.000	18	6,4	37	34	115	

Additionally available:
crank flap lever, separating bar, galvanised model.



Model with separating bar for two-rope mode, please enquire.



Do 260/76 spur wheel rope winch

Solid, mostly closed steel sheet housing, at 2,000 kg with flap crank, otherwise with set crank. Increased rope durability through large drum diameter.

Item no.	Rope carry. cap. kg	Rope ø mm	Rope absorpt.		Crank power t 1. position daN/kg	Drum ø mm	Weight w/o rope approx. kg	Price each
			1. pos. m	top pos. m				
0881 4701	300	6	2,3	11,8	19	70	10	Price on enquiry
0881 4702	500	6	2,3	11,8	21	70	10	
0881 4703	1.000	8	3,4	12,0	18	102	15	
0881 4704	2.000	12	4,1	9,0	32	120	23	



Do 200/77 rope winch

Compact dimensions, mostly closed housing, low cranking power needed, housing made from aluminium, hand crank removable under load.

Rope Item no.	Rope carry. cap. kg	Rope ø mm	Rope absorpt.		Crank power t 1. pos. daN/kg	Weight w/o rope approx. kg	Price each
			1. pos. m	6./7. pos. m			
0881 0276	50	3	0,4	5,3	8	1	o.e.
0881 0277	100	3	0,45	7,8	6	2,1	o.e.



Do 199/75 aluminium rope winch

All core components made from aluminium, can be operated from both sides, mostly closed housing, hand crank removable under load, automatic resetting of the brake due to wear and tear, rope fitting with safety wedge, increased rope durability through large drum diameter.

Item no.	Rope carry. cap. kg	Rope ø mm	Rope absorpt.		Crank power t 1. pos. daN/kg	Drum ø mm	Weight w/o rope approx. kg	Price each
			1. pos. m	6. pos. m				
0881 4501	63	3	2	18	10	40	3	Price on enquiry
0881 4502	125	3	2	18	12	40	3	
0881 4503	250	4	1,4	14	16	46	5	

* 1. position



Pipe transport Pipe handling

DoLast



Do 730 pipe suspension + Do 740, Do 750 pipe laying hook

Do 730 pipe suspension

Light and convenient loading and unloading of pipes of all types.

For pipes up to a construction length of 4 m. Centre of gravity balancing through chain shortening. Hooks also available with rubber coating (subject to surcharge).

Delivery per suspension: 2 pipe hooks with highly solid, reducable chain, including chain hook eye.

Do 740 pipe laying hook

For pipe lengths of up to 1 m, with securing chain (standard production).



Do 740

Do 750 pipe laying hook

For pipe lengths of up to 3 m with automatic centre of gravity balancing and adjustable end buffers. Hooks can also be fitted with rubber coating.

For the automatic function, a minimum pipe weight is required (see table). Lighter pipes must not be transported.

Item no.	Carrying cap. kg	Hook opening mm	Minimum weight approx. kg	Weight approx. kg	Price each
Do 730 pipe suspension					
0809 7310	1.000	200	-	31	Price on enquiry
0809 7325	2.500	250	-	56	
0809 7340	4.000	320	-	101	
Do 740 pipe laying hooks					
0809 7410	1.000	190	-	24	Price on enquiry
0809 7430	3.000	260	-	45	
Do 750 pipe laying hooks					
0809 7510	1.000	300	350	180	Price on enquiry
0809 7530	3.000	460	1.000	310	
0809 7575	7.500	500	3.000	732	



Do 730



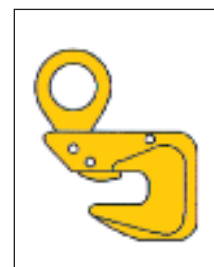
Do 750

Do 22/K profile clamp

Universal lifting clamp for horizontal transport of pipes. For frontal attachment of beams, the housing of the clamp is grooved. With security stop; lockable in open and closed position. When used in pairs, a maximum inclination of 300° is permissible.

Item no.	Carrying cap. kg	Wench opening mm	Weight approx. kg	Price each
0872 2005	500	0 - 25	4	Price on enquiry
0872 2010	1.000	0 - 25	6	
0872 2015	1.500	0 - 30	10	
0872 2030	3.000	0 - 40	15	
0872 2040	4.000	0 - 40	18	

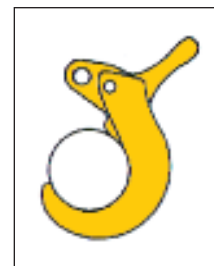
Also suitable for transporting profiles, plates and sheets.



Do 722 round profile clamp

Safety clamp for horizontal transport of pipes and round materials. Especially suitable for stacking on and taking down from shelves.

Item-no.	Carrying cap. kg	Grabbing width mm	Weight approx. kg	Price each
0872 5025	250	30 - 50	3	Price on enquiry
0872 5026	250	65 - 85	3	
0872 5027	250	80 - 100	4	
0872 5053	500	30 - 50	3	
0872 5054	500	50 - 80	4	
0872 5055	500	80 - 100	5	





Do 700 BTG

For concrete pipes according to DIN 4034.

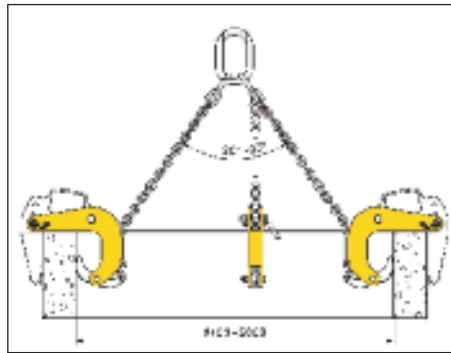
Pipe transport Pipe handling Tripod

Dolast

Do 700 Lifting suspension for drains



Item no.	Model	Carrying capacity kg	Grip range mm	Internal pipe ø mm	Chain length mm	Weight ca. kg	Price each
0809 1511	BTG 1,5/120	1.500	40 - 120	400 - 2.000	1.645	35	Price on enquiry
0809 1509	BTG 3,0/180	3.000	50 - 180	400 - 2.000	1.820	90	
0809 1512	BTG 3,0/220	3.000	90 - 220	400 - 2.000	1.820	94	



Ideal lifting gear for vertical transport of concrete pipes and drain rings. Simply place on the pipe to be transported.

Suitable for the hardest areas of use. With handle for simpler handling. Low own weight. Large grip range.

Delivery per suspension:

- 3 grips
- Chain grade 80
- Crane hook eye

Do 700 RSV Lifting suspension for drains



Item no.	Model	Carrying capacity kg	Grip range mm	Internal pipe ø mm	Chain length mm	Weight ca. kg	Price each
0809 1500	Do 700	1.500	40 - 120	400 - 2.000	1.500	31	Price on enquiry
0809 3010	Do 700	3.000	50 - 180	400 - 2.000	1.600	53	
0809 1510	Do 700 L	1.500	40 - 120	400 - 3.000	2.000	33	
0809 3000	Do 700 L	3.000	50 - 180	400 - 3.000	2.200	57	

L-Model suitable for concrete pipes up to ø 3.000 mm.

Do 725/AL tripod with winch



Item no.	Carrying capacity kg	Pillar length L min. / max.	Light height H min. / max.	Total lift m	Spread width W min. / max.	Rope strands	Weight approx. kg	Price each
0872 5104	200	1,18 / 1,88 m	0,94 / 1,58 m	5	0,95 / 1,50 m	1	20	Price on enquiry
0872 5105	500	2,10 / 2,50 m	1,70 / 2,10 m	5	1,50 / 2,00 m	1	35	
0872 5106	500	2,40 / 3,00 m	2,00 / 2,50 m	7	1,90 / 2,50 m	1	45	
0872 5107	1.000	2,40 / 3,00 m	1,90 / 2,40 m	7	1,90 / 2,50 m	2	45	
0872 5108	1.000	2,85 / 4,00 m	2,40 / 3,40 m	7	2,20 / 3,00 m	2	69	

For fast winding up and unwinding of the unloaded rope, the winches are equipped with a direct route and a load route (except for Item no. 0872 5104). The crank can also be removed under load (except for Item no. 0872 5104). For delivery with rubber plates, the foot holds are not included.

- Light aluminium construction with integrated rope winch
- Easy transport, telescoped option
- Standard production with foot holds

Special designs made from steel pipe on request.

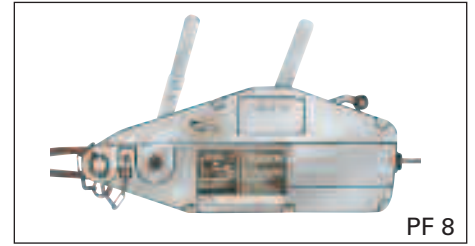
All models are fitted with rope winch, crank, rope and rotatable load hook.

Accessories:

- Rubber plates (for solid surface)
Price on enquiry
- Securing chain (for slippery surfaces)
Price on enquiry

Lifting and pulling machines

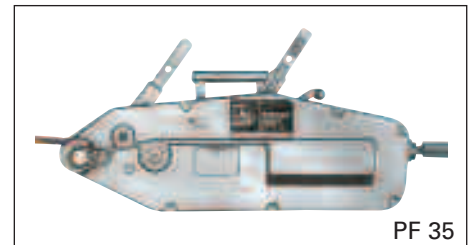
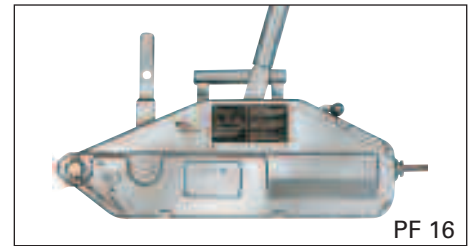
DoLast



Do PF aluminium rope pulleys

Item no.	Do	Rope ϕ in mm	Traction force in kg	Dimensions in mm	Weight in kg	Price each
0802 1082	PF 8	8,4	800	430 x 60 x 240	15	Price on enquiry
0802 1162	PF 16	11,5	1.600	450 x 73 x 260	22	
0802 1322	PF 35	16,0	3.200	660 x 96 x 340	38	

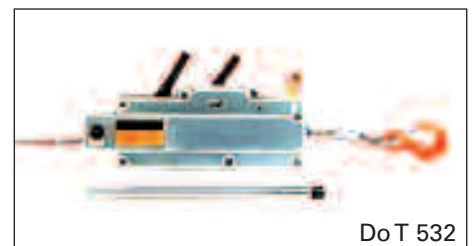
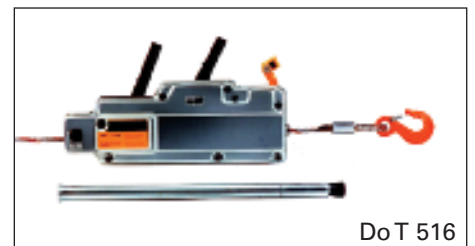
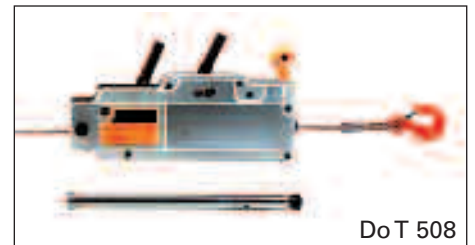
- Housing made from aluminium alloy = low own weight
- Nearly maintenance-free
- Every rope winch is tested with overload
- Basic equipment: 20 m rope with hook on hand chain
- Other rope lengths available



Do T series super light pulleys with lever tube

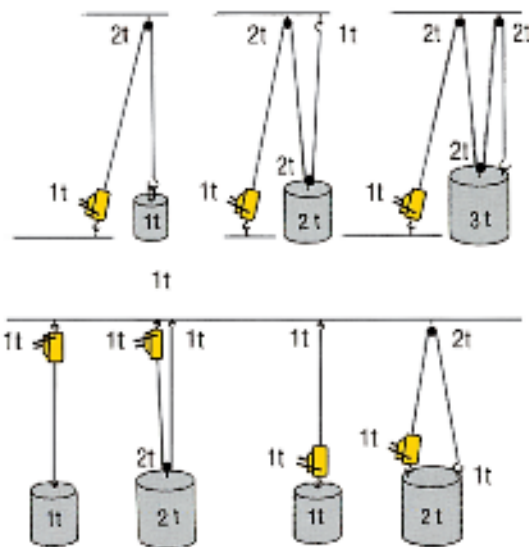
Grip hoist	Do T 508	Do T 516	Do T 532	Accessories	Do Jockey*
Item no. without rope	0802 2800	0802 2161	0802 2321	0802 0003	0802 2500
Wire rope ϕ	mm 8,4	11,5	16		4,5
Item no. hoist rope**	0209 0841	0209 1151	0209 1601	Storage box for model	500
Traction force	kg 800	1.600	3.200	Do T 508 Price o.e.	1,7
Weight	kg 6,6	13	22	Do T 516 Price o.e.	320
Device length	mm 420	530	620	Do T 532 Price o.e.	on enquiry
Price per pulley	on enquiry	on enquiry	on enquiry		

* with 10 m hoist rope, 2 x securing rope, packed in the box
 ** with peak and thimble hook with lock

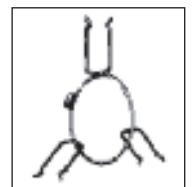


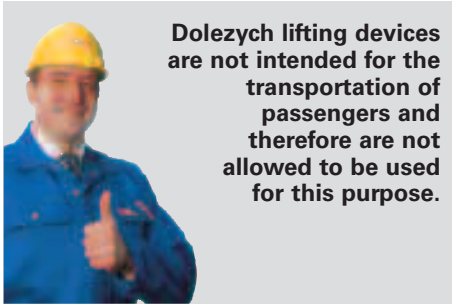
If a hoist rope is lead over one or several rollers (blocks), the traction is doubled/multiplied.

Suspension and return sheave selection:
 take into account double strain due to load and hoist rope.



Grip rope for transporting persons available, please enquire.





Dolezych lifting devices are not intended for the transportation of passengers and therefore are not allowed to be used for this purpose.

Dolast

Rope pulling Clamp DoLM5

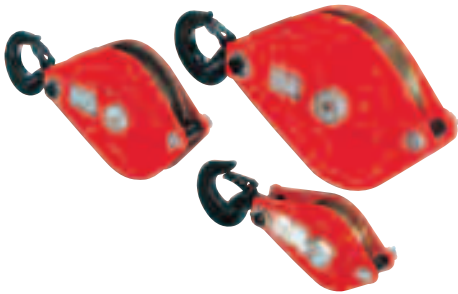


The model LMG II-X is equipped with two corrugated clamp jaws. With regards to the rope diameter and the surface structure it is suitable for ropes of a material strength up to 1,960 N/mm² at a maximum rope diameter.

Item no.	Model	Traction kg	for rope ϕ mm	Traction eye mm	Weight kg	Price each
0840 7015	LMG I	2.000	5-15	31 x 44	1,6	Price on enquiry
0840 7020	LMG II	3.000	8 - 20	31 x 44	2,9	
0840 7021	LMG II-X	3.000	8 - 20	31 x 44	2,9	
0840 7032	LMG III	5.000	18 - 32	66 x 93	9,5	

The rope clamp LMG is a load securing device for the gripping, pulling and tightening of non-coated wire ropes, cables and metal bars of all kinds with regards to the rope diameter and the surface structure that have a material strength of max. 1.770 N/mm². Parallel clamp jaws provide non-slip grip without damaging the rope. A special technique prevents the clamp from falling down the rope on the one hand and enables immediate loosening on the other hand.

Wire rope folding block



Item no.	Carrying capacity kg	Rope ϕ mm	Weight kg	Price each
0372 7085	1.000	7	3,3	Price on enquiry
0372 7150	2.000	13	8,9	
0372 7180	3.200	15	15,5	
0372 7210	6.400	18	26,5	

Wire rope blocks can be mounted easily to the rope by just opening one of the side flaps. Use for the quick installation of a lifting point or the redirecting of a rope.

- By swivelling the hooks in the pulling direction, the wire rope block is locked securely.
- The rollers made of high-quality cast steel are provided with mechanically processed rope flutes and Permaglide® plain bearings.
- For the selection and grading of wire rope blocks the principles of rope drives DIN 15020 should be observed.

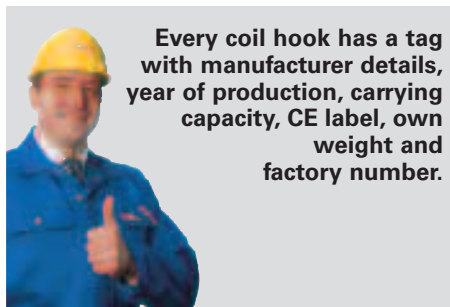
Rope sheave block Do S 108 with roller bearing



Item no.	max. rope tension cap. kg	External ϕ mm	Roller ϕ mm	Rope ϕ mm	Weight approx. kg	Price each
0373 0806	250	85	60	6	1,2	Price on enquiry
0373 0808	500	125	90	9	2,8	
0373 0813	1.000	180	135	13	6,8	
0373 0816	2.000	240	185	18	17	
0373 0820	3.200	300	230	23	29	Price on enquiry
0373 0824	5.000	360	280	27	51	

Coil Hooks

DoLast



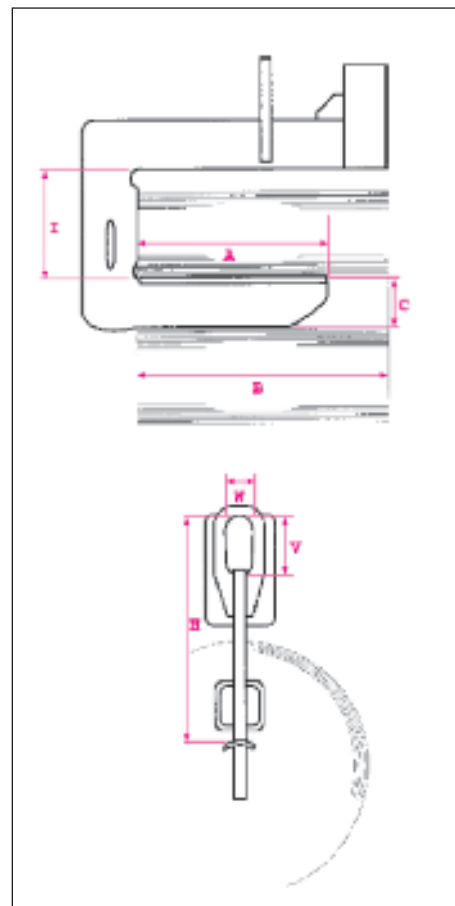
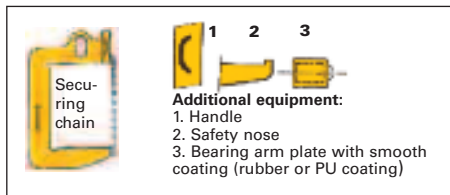
Every coil hook has a tag with manufacturer details, year of production, carrying capacity, CE label, own weight and factory number.



Hook rigid with counterweight Do 410 C

Solid welded steel construction made of high-quality steel for the use under extreme conditions. Due to the constructional position of the counterweight the support arm of the C Hook has an inclination of 4° upwards. This inclination ensures that the load does not slip.

The length of the support arm measures ¾ of the maximum coil width. We also manufacture intermediate sizes and special models on request.



Item no.	Carrying cap. kg	Dim. in mm			V x W	Weight approx. kg	Price each	
		B	A	C				
0810 0101	500	150 - 300	225	60	400	520	100 x 50	12
0810 0102	500	250 - 500	375	70	400	520	100 x 50	20
0810 0360	500	375 - 750	565	75	400	520	100 x 50	28
0810 0361	500	500 - 1.000	750	80	400	520	100 x 50	40
0810 0105	1.000	150 - 300	225	75	450	600	120 x 55	20
0810 0106	1.000	250 - 500	375	80	450	600	120 x 55	30
0810 0107	1.000	375 - 750	565	100	450	600	120 x 55	48
0810 0108	1.000	500 - 1.000	750	110	450	600	120 x 55	60
0810 0109	2.500	150 - 300	225	90	500	680	150 x 75	35
0810 0110	2.500	250 - 500	375	110	500	680	150 x 75	60
0810 0111	2.500	375 - 750	565	135	500	680	150 x 75	80
0810 0112	2.500	500 - 1.000	750	140	500	680	150 x 75	120
0810 0113	5.000	375 - 750	565	160	550	780	190 x 90	165
0810 0114	5.000	500 - 1.000	750	180	550	780	190 x 90	220
0810 0115	5.000	625 - 1.250	940	200	550	780	190 x 90	280
0810 0116	5.000	750 - 1.500	1.125	220	550	780	190 x 90	435
0810 0117	7.500	375 - 750	565	200	550	830	230 x 110	220
0810 0118	7.500	500 - 1.000	750	230	550	830	230 x 110	290
0810 0362	7.500	625 - 1.250	940	230	550	830	230 x 110	400
0810 0363	7.500	750 - 1.500	1.125	250	550	830	230 x 110	490
0810 0121	10.000	375 - 750	565	230	600	910	250 x 120	270
0810 0364	10.000	500 - 1.000	750	230	600	910	250 x 120	400
0810 0123	10.000	625 - 1.250	940	270	600	910	250 x 120	500
0810 0124	10.000	750 - 1.500	1.125	290	600	910	250 x 120	680

Coil Flip Hook Do 415

Suitable for flipping and placing coils and steel band rings.

Facilitates the flipping and setting up of coils and well-banded steel band rings. Low own weight – easy handling.

Item no.	Carrying cap. kg	Coil width mm	Weight approx. kg	Price each
0810 1505	500	100 - 200	10	Price on enquiry
0810 1510	1000	100 - 200	12	
0810 1512	1000	200 - 300	16	
0810 1525	2500	100 - 200	20	Price on enquiry
0810 1526	2500	200 - 300	25	
0810 1530	3000	250 - 350	30	

According to DIN EN 13155 point 5.1.5 any load suspension device that is not in use has to be stored in a stable and appropriate way. Of course we offer the suitable storage devices and racks on request.





Do 413



Do 412

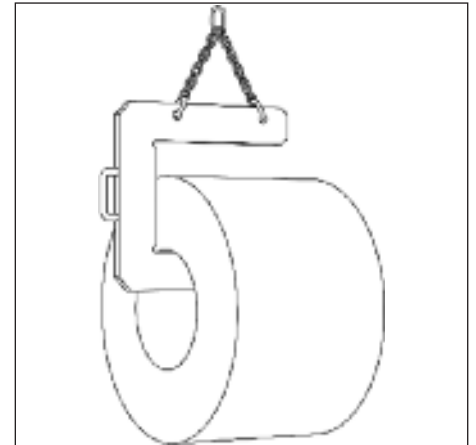
C-hooks Special designs

Dolast

Coil Hooks with rope or chain suspensions Do 413

Item no.	Carrying capacity kg	Dim. approx. mm						Weight approx. kg	Price each
		B	A	C	I	H	V x W		
0810 1625	2.500	375 - 750	565	135	500	1500	135 x 75	75	Price on enquiry
0810 1626	2.500	500 - 1000	750	140	500	1600	135 x 75	110	
0810 1627	5.000	375 - 750	565	160	550	1500	180 x 100	150	
0810 1628	5.000	500 - 1000	750	180	550	1600	180 x 100	200	
0810 1629	5.000	625 - 1250	940	200	550	1700	180 x 100	280	
0810 1630	5.000	750 - 1500	1125	220	550	1900	180 x 100	350	
0810 1631	7.500	375 - 750	565	200	550	1600	200 x 110	200	
0810 1632	7.500	500 - 1000	750	230	550	1600	200 x 110	300	
0810 1633	7.500	625 - 1250	940	230	550	1900	200 x 110	400	
0810 1634	7.500	750 - 1500	1125	250	550	2150	200 x 110	490	

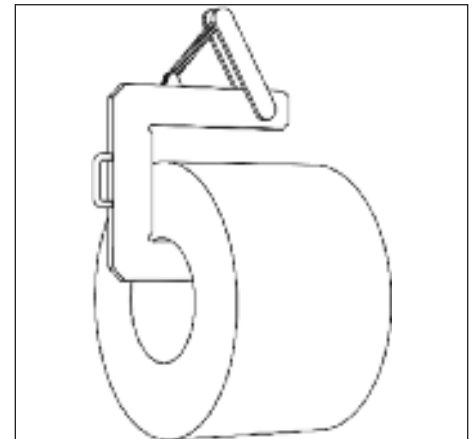
Low weight through chain suspension.



Coil Hook with automatic weight balancer Do 412

Item no.	Carrying capacity kg	Dim. ca. in mm						Weight approx. kg	Price each
		B	A	C	I	H	V x W x X		
0810 1640	2.500	500 - 1000	750	140	500	1250	175 x 75 x 35	90	Price on enquiry
0810 1641	5.000	375 - 750	565	160	550	1250	175 x 75 x 40	110	
0810 1642	5.000	500 - 1000	750	180	550	1300	190 x 90 x 40	125	
0810 1643	5.000	625 - 1250	940	200	550	1300	190 x 90 x 40	145	
0810 1644	5.000	750 - 1500	1125	220	550	1400	190 x 90 x 45	160	
0810 1645	7.500	375 - 750	565	200	550	1500	230 x 110 x 50	135	
0810 1646	7.500	500 - 1000	750	230	550	1550	230 x 110 x 50	150	
0810 1647	7.500	625 - 1250	940	230	550	1550	230 x 110 x 50	200	
0810 1648	7.500	750 - 1500	1125	250	550	1650	230 x 110 x 55	250	

Through the automatic weight balancer different coil weights can be lifted.

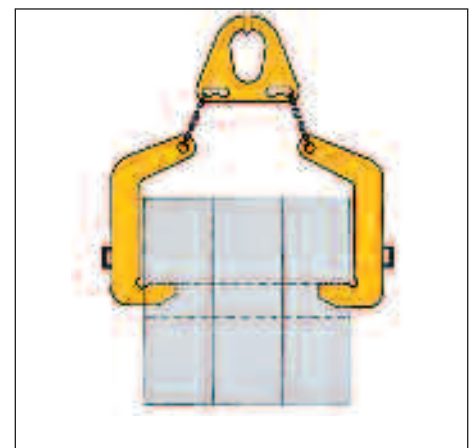


Coil Hook Suspensions Do 416

Especially suitable if there is no space for the C hook to be laterally inserted into the coil due to lack of depth. Very careful lifting is required. The two chains

must be permanently in a diagonal position for both gripping arms to safely press against the coil when lifting.

Prices on enquiry



Lifting beams rigid/adjustable

DoLast



There are two types of beams:
either they are rigid or adjustable.

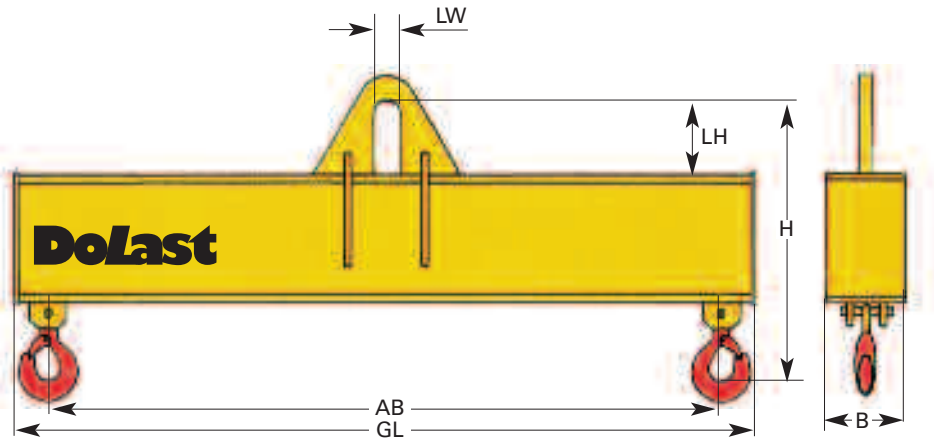
Do 310 Beam, rigid

Item no.	Carrying capacity kg	Dim. in mm						Weight approx. kg	Price each
		AB	GL	H	LH	LW	B		
0811 0010	1.000	1.000	1.050	380	125	55	55	14	
0812 2510	1.000	2.500	2.570	420	125	55	75	39	
0811 6016	1.600	1.600	1.670	420	125	55	75	27	
0813 1016	1.600	3.150	3.220	460	125	55	90	66	
0814 0025	2.500	4.000	4.090	570	150	60	110	120	
0812 5040	4.000	2.500	2.600	600	175	70	110	81	
0815 0040	4.000	5.000	5.100	680	175	70	150	230	
0815 0063	6.300	5.000	5.110	820	210	85	170	316	



Beams with higher carrying capacities and greater working widths on request.

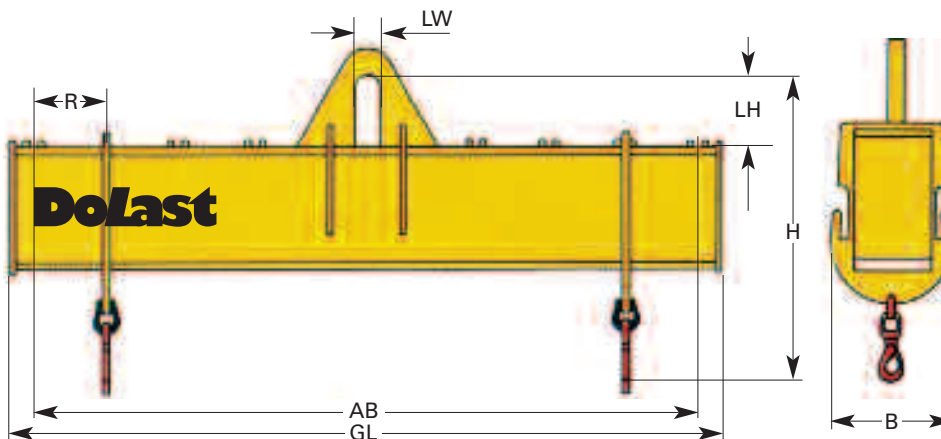
We will custom-tailor beams to your specs in all variants.



One-point suspension:
Eye-hook with safety (swivable)

Do 315 Beam adjustable

Item no.	Carrying capacity kg	Dim. in mm							Weight approx. kg	Price each
		AB	GL	H	LH	LW	B	R		
0851 0010	1.000	1.000	1.050	380	125	55	260	150	25	Price on enquiry
0852 5010	1.000	2.500	2.570	420	125	55	260	150	46	
0851 6016	1.600	1.600	1.670	420	125	55	260	200	36	
0853 1016	1.600	3.150	3.220	460	125	55	290	200	80	
0854 0025	2.500	4.000	4.090	570	150	60	330	200	165	
0852 5040	4.000	2.500	2.600	600	175	70	400	250	120	
0855 0040	4.000	5.000	5.100	680	175	70	430	250	268	
0855 0063	6.300	5.000	5.110	820	210	85	500	250	416	



One-point suspension:
Lateral with 2 pairs of adjustable shoulder hooks and 2 swivel hooks with safety (rotatable and swivable)



Carrying capacity details apply to load distribution on all 4 hooks.

Do not use one diagonal only.

DoLast H beam with one-point suspension saves lifting height.



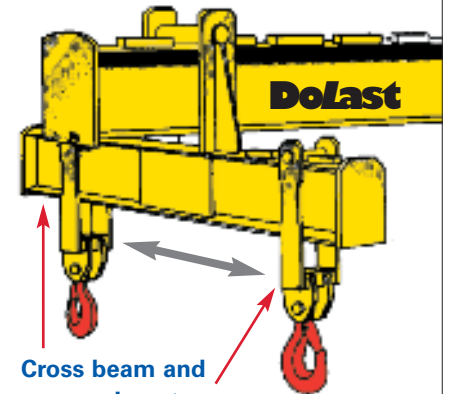
H Beams rigid/adjustable

DoLast

Do 311 H Beam rigid + 316/T H Beam adjustable

Item no.	Carrying capacity kg	Working range main beam mm	Grid setting main beam mm	Working range cross beam mm	Grid setting cross beam mm	Weight approx. kg	Price each
Do 311 H							
0831 1120	1.000	2.000	-	1.000	-	55	Price on enquiry
0831 1252	2.500	2.000	-	1.000	-	90	
0831 1253	2.500	3.000	-	2.000	-	150	
0831 1503	5.000	3.000	-	2.000	-	225	
0831 1504	5.000	4.000	-	2.000	-	295	
0831 1505	5.000	5.000	-	2.500	-	390	
0831 1755	7.500	5.000	-	2.500	-	445	
0831 1756	7.500	6.000	-	3.000	-	640	
0831 1104	10.000	4.000	-	2.500	-	510	
0831 1106	10.000	6.000	-	3.000	-	750	
0831 1156	15.000	6.000	-	3.000	-	910	
Do 316/T H							
		max.-min.		max.-min.			Price on enquiry
0831 6012	1.000	2.000 x 1.000	4 x 125	1.000 x 500	2 x 125	90	
0831 6022	2.500	2.000 x 1.000	2 x 125	1.000 x 500	2 x 125	140	
0831 6023	2.500	3.000 x 1.000	4 x 250	2.000 x 1.000	4 x 125	230	
0831 6053	5.000	3.000 x 1.000	4 x 250	2.000 x 1.000	2 x 125	340	
0831 6054	5.000	4.000 x 1.000	6 x 250	2.000 x 1.000	4 x 250	450	
0831 6055	5.000	5.000 x 1.500	8 x 250	2.500 x 1.000	8 x 250	600	
0831 6075	7.500	5.000 x 1.500	7 x 250	2.500 x 1.000	4 x 250	680	
0831 6076	7.500	6.000 x 2.000	9 x 250	3.000 x 1.000	6 x 250	980	
0831 6104	10.000	4.000 x 1.000	5 x 250	2.500 x 1.000	4 x 250	775	
0831 6106	10.000	6.000 x 2.000	6 x 250	3.000 x 1.000	6 x 250	1.150	
0831 6156	15.000	6.000 x 2.000	4 x 500	3.000 x 1.000	4 x 300	1.400	

Do 316/T H beam, adjustable and dismantable (without chart), please enquire.



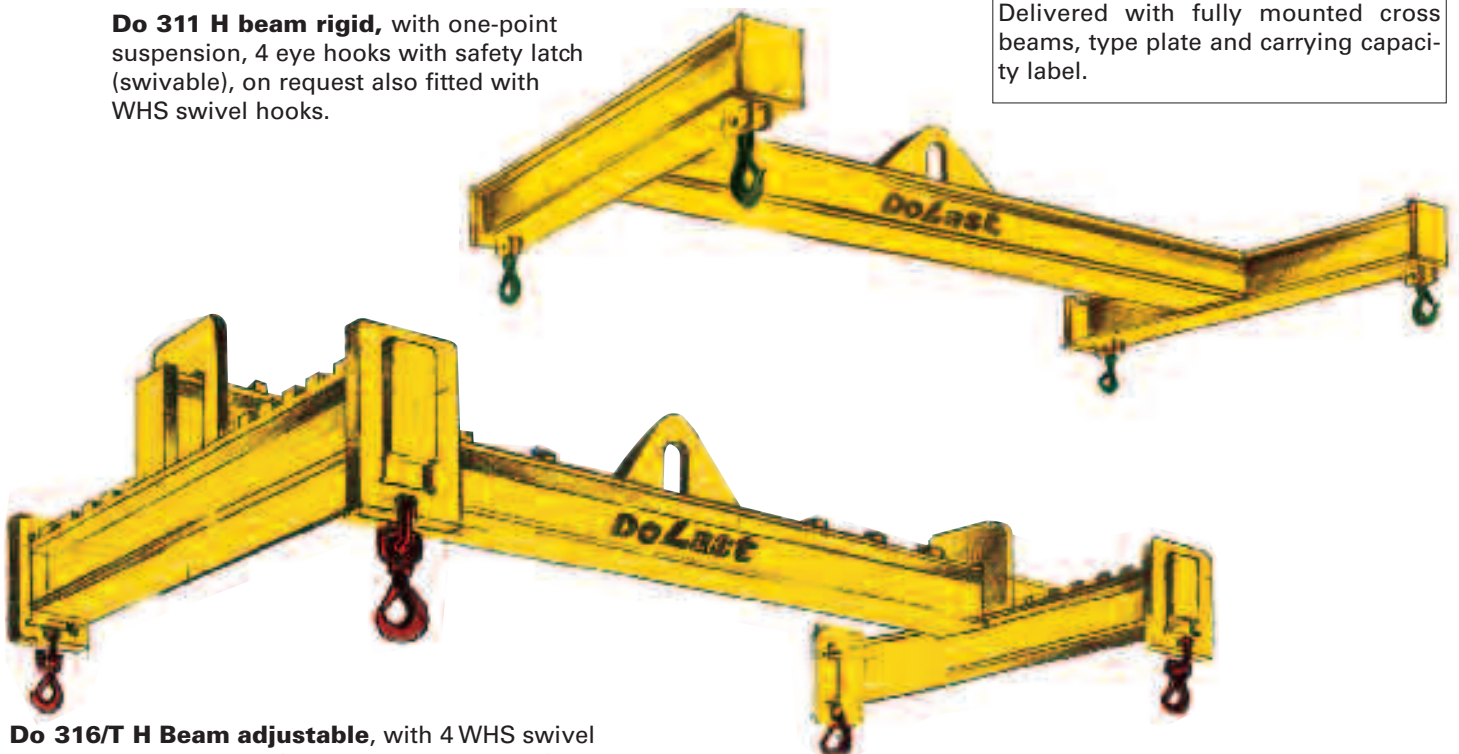
Cross beam and suspension straps removable

The above beam is available in one-point suspension and 4 swivable eye load hooks with safety.

Variant with sturdy profile steel construction with 2 cross beams adjustable in the grid and 2 setting straps. The beam suspension is dismantable for transport, i.e. cross beams and the suspension straps can be removed.

Delivered with fully mounted cross beams, type plate and carrying capacity label.

Do 311 H beam rigid, with one-point suspension, 4 eye hooks with safety latch (swivable), on request also fitted with WHS swivel hooks.



Do 316/T H Beam adjustable, with 4 WHS swivel hooks with safety latch (rotatable and swivable)

Lattice box beams, cross beams, frame beams and spreader beams

DoLast

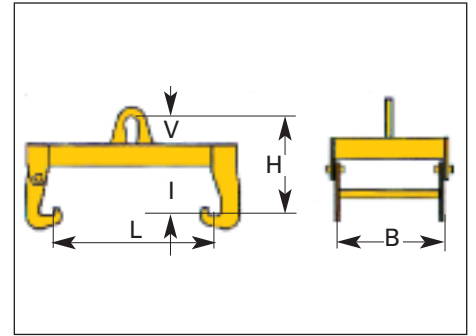


Do 312 lattice box beam

The design is intended for single transport of lattice boxes. It has two rigid hooking-in hooks and two swivable hooking-in hooks connected with a

handlebar. It can be notched to and removed from an individual stopper to the lattice box.

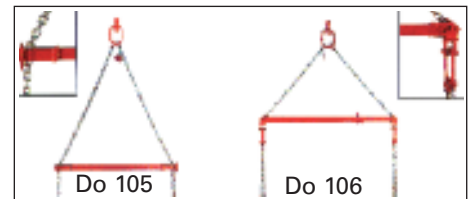
Item no.	Carrying capacity kg	ca. dim. in mm					Weight approx. kg	Price each
		B	H	I	L	V		
0817 0010	1.000	600	360	150	1200	120	40	Price on enquiry
0817 0020	2.000	600	380	160	1200	120	45	
0817 0030	3.000	600	450	160	1200	150	65	



Do 105/106 spreader beams in rigid and adjustable design

Do 105 spreader beam rigid, 2-leg chain suspension. Locked through socket pin.

Do 106 spreader pin adjustable, firmly fitted with 2-leg chain suspension. Working width lockable via socket pin.

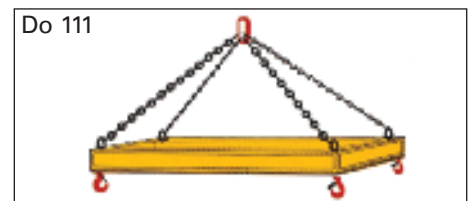


Do 105 rigid Item no.	Do 106 adjustable Item no.	Chain thickness d = mm	Do 105 Working width rigid mm	Carrying cap. in kg max. 45° inclination	Do 106 Working width adjustable mm	Carrying cap. in kg 0-45° inclination	Carrying cap. in kg 45-60° inclination	Weight (without chain) approx. kg	Price each Do 105 rigid	Price each Do 106 adjustable
0810 5014	0810 6014	6	1.000	1.400	1.000 - 1.500	1.400	1.000	5/10	Price on enquiry	Price on enquiry
0810 5028	0810 6028	8	1.500	2.800	1.200 - 2.000	2.800	2.000	6/14		
0810 5045	0810 6045	10	1.500	4.500	1.200 - 2.000	4.500	3.200	8/16	Price on enquiry	Price on enquiry
0810 5071	0810 6071	13	1.500	7.100	1.200 - 2.000	7.100	5.000	12/28		
0810 5112	0810 6112	16	2.500	11.200	1.900 - 2.500	11.200	8.000	16/50		

Do 111 frame beam

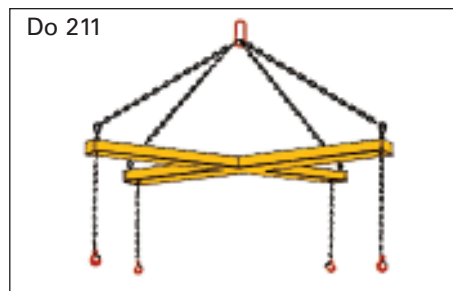
Welded steel frame with 4-leg chain suspension, available with eye load hook or swivel hook with safety (subject to surcharge) in every corner.

Item no.	Carrying capacity kg	Working dimensions mm	Weight approx. kg	Price
0811 1110	1.000	2.000 x 1.000	100	Price on enquiry
0811 1120	2.000	3.000 x 1.500	150	
0811 1130	3.000	4.000 x 2.000	280	

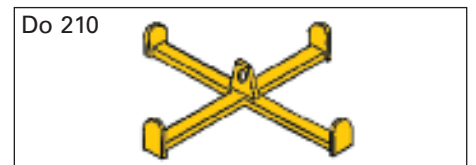


Cross beams 209, 210, 211

Type	Item no.	Carrying capacity kg	Working dimensions mm	Weight approx. kg	Price
209	0811 0905	500	1.000 x 1.000	20	Price on enquiry
209	0811 0910	1.000	1.000 x 1.000	23	
210	0811 2104	500	1.000 x 1.000	18	
210	0811 2110	1.000	1.000 x 1.000	20	
211	0821 2015	500	1.000 x 1.000	15	
211	0811 2011	1.000	1.000 x 1.000	25	



With 4-leg chain suspension or welded one-point suspension, in order to accept lattice boxes, big bags, etc.



With 4 head plates for big bags, easy hooking in and unhooking.



With 4 YAS welding hooks with safety, for big bags.



Turning beams Container beams

DoLast

Do 216 Turning beam, mechanically adjustable

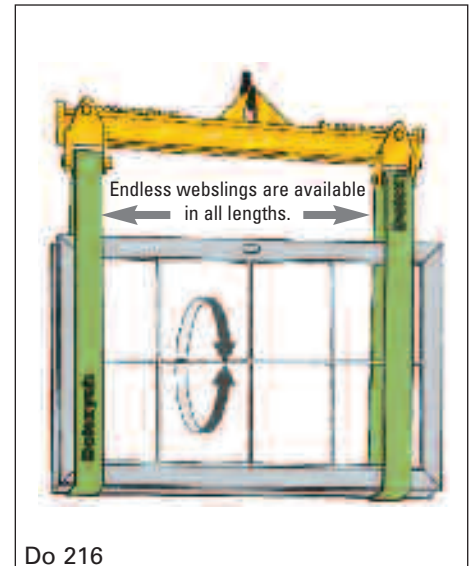
One-point suspension, manually adjustable in width, with Dolezych endless webslings.

DoLast turning beams can be equipped in all carrying capacity classes with electric engines. For mechanical turning, two employees are required.

Only one employee moves the load for electric engine turning.

Price without webslings. Please enquire.

Item no.	Carrying capacity kg	Working width mm	Grid mm	Weight ca. kg	Price each
0812 1810	1.000	1.000	2 x 150	25	Price on enquiry
0812 1614	1.000	1.600	3 x 150	34	
0812 1811	1.000	2.500	5 x 150	46	
0812 1813	1.000	3.150	7 x 150	56	
0812 1816	1.600	1.600	2 x 200	36	
0812 1817	1.600	2.500	4 x 200	67	
0812 1818	1.600	3.150	5 x 200	80	
0812 1627	1.600	4.000	7 x 200	97	
0812 1825	2.500	2.500	4 x 200	84	
0812 1826	2.500	3.150	5 x 200	100	
0812 1626	2.500	4.000	7 x 200	165	
0812 1828	2.500	5.000	9 x 200	197	
0812 1840	4.000	2.500	3 x 250	120	
0812 1841	4.000	3.150	4 x 250	141	
0812 1842	4.000	4.000	6 x 250	224	
0812 1843	4.000	5.000	7 x 250	268	
0812 1863	6.300	3.150	4 x 250	227	
0812 1864	6.300	4.000	6 x 250	271	
0812 1865	6.300	5.000	7 x 250	416	
0812 1866	6.300	6.300	9 x 250	505	



Do 216

Do 216 turning beam, adjustable with electric engine, please enquire

A lack of knowledge on how to handle heavy or bulky parts is often the start of the end.

If loads are moved, reversed or turned with "Heave ho!" remarks and inappropriate tools, it does not take long for an accident to happen.

Prevention is better. Use **DoLast turning tools** with the help of which your valuable goods can be professionally turned and moved – smoothly and softly.



Do 112 container beam

Loading tools for Do 112 container beam, with CH-3 container hook, suitable for 20 ft. and 40 ft. containers can be found below.

Item no.	Carrying capacity kg	Price each
0817 2100	10.000	on enquiry
0817 2200	20.000	on enquiry

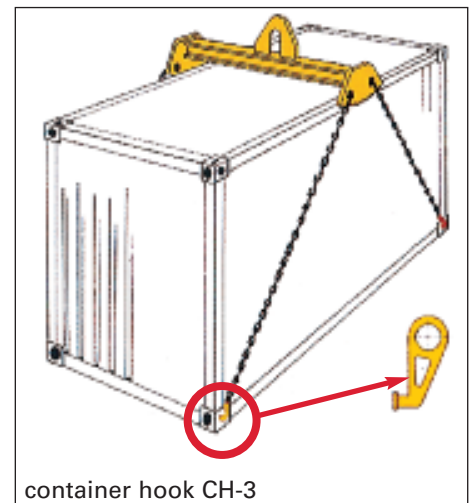
Prices without loading tool!

Chain spreader set

Item no.	Carrying capacity kg	Container ft.	Length m	Price per set
2999 1301	10.000	20	4,5	Price on enquiry
2999 1901	20.000	20	4,5	
2999 1301	10.000	40	7,5	
2999 1901	20.000	40	7,5	

Wire rope spreader set

Item no.	Carrying capacity kg	Container ft.	Length m	Price per set
2299 2401	10.000	20	4,5	Price on enquiry
2299 3601	20.000	20	4,5	
2299 2401	10.000	40	7,5	
2299 3601	20.000	40	7,5	



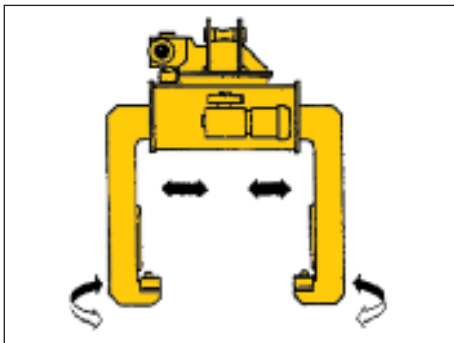
Special constructions on request

DoLast

Do 6000 coil grab

Driven by electric engine, for the transportation of lying coils. Design with and without horizontal rotation. With lateral contact bars to protect against damage to the coils.

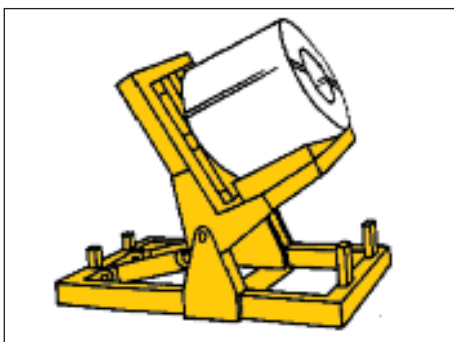
- Safety switch prevents inadvertent opening of the grab under load – for semi and fully automatic operation SPS-controlled - low construction height
- Solid construction through compact design



Do 6200 coil turning table

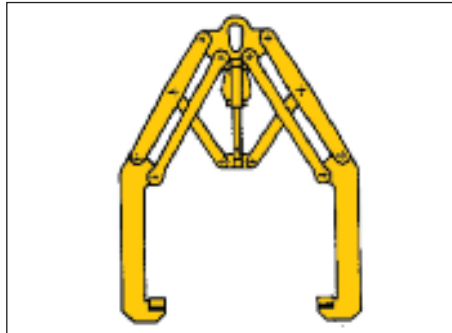
Electro-hydraulic-driven turning table. Turning angle 90° for coils, paper rolls or cast parts. Extremely sturdy design for use in smelting plants.

We design turning tables with carrying capacities of 2.5 t - 40 t. Also with fully automatic SPS controls. With heat protection for hot operating environments,. Optionally with integrated or external pump aggregate.



Do 6100 parallelogram coil grab

With and without horizontal rotation. Requires little lateral space. Solid, maintenance-free design, especially suitable for smelting operation, carrying capacity up to 40 t. Available in mechanical, electric engine or electro-hydraulic design variants.



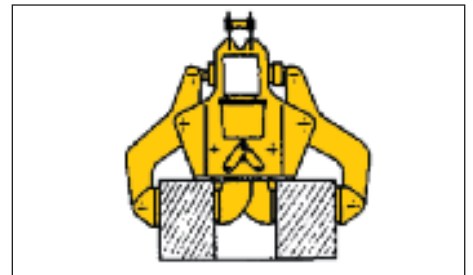
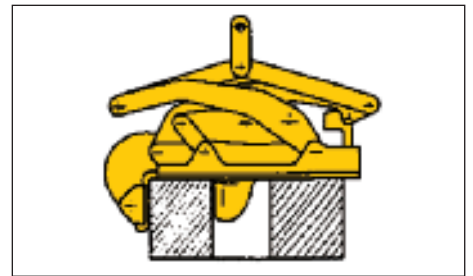
Parallelogram grab, sensor-controlled



Coil reverse grab with integrated horizontal rotating device



DoLast grab for vertical coil transport

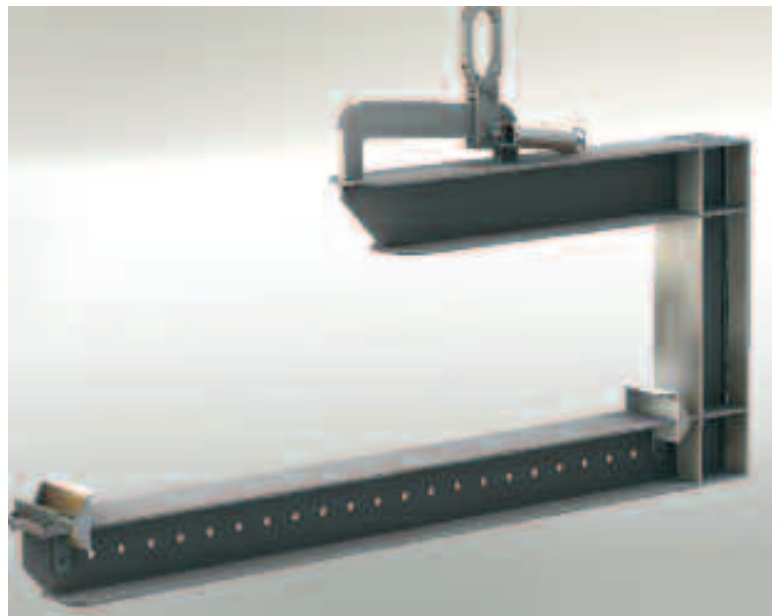
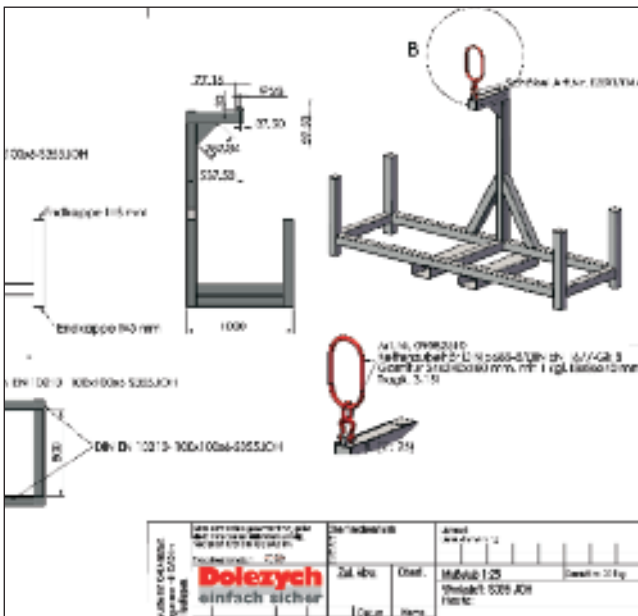


Special construction for the lifting of round/oval materials



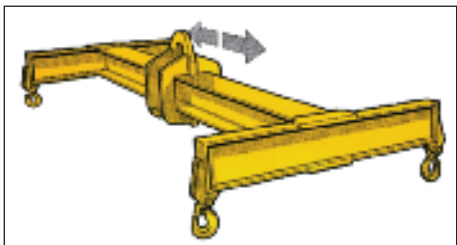
Coil hook, hot-dip galvanized, with weight balancer





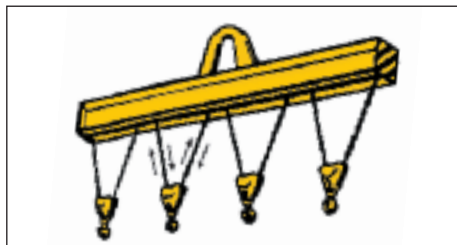
From the drawing to the ready-made lifting device. Special constructions made by Dolezych.

Do 311/V H beam



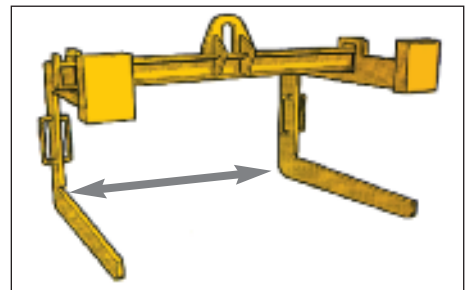
With adjustable suspension head, balancing beam with manually adjustable suspension eye to balance different centres of gravity of the load.

Do 310/AG balancing beam



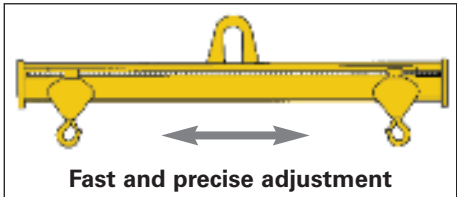
With automatically height-adjustable load hooks resulting in even load distribution to transport ready-made concrete components, ceilings, etc.

Do 315/H coil hook beam



With 1 pair of adjustable coil hooks.

Do 315/L carriage beam



Fast and precise adjustment

Model with carriage, suitable for central loads. Can be fixed with toggle screw.

Do 315/C long hook beam



Working width can be adjusted with hand crank via trapeze arbor.

Do 315 / V long hook beam, adjustable



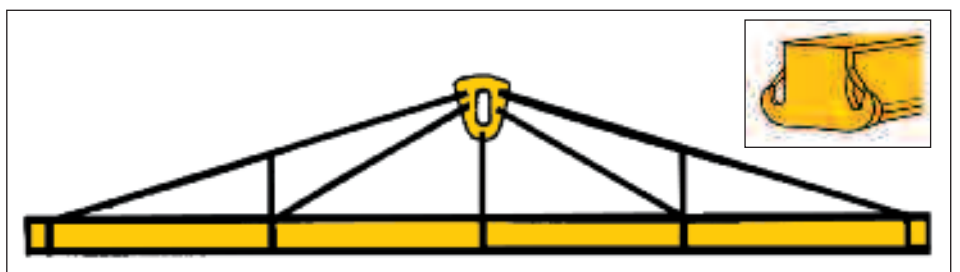
Stepless adjustable width.

Do 309 light construction beam for long goods

With end point suspension and fixed shoulder hooks with safety.

Benefits:

Long goods no longer bend during the operation – low own weight. Optionally available with eye load hook or swivel hook – beam suspension also available for DIN 15402 double hooks.



I General Terms of Business

1. Contract Completion

Our deliveries take place exclusively based on the following terms of business. Different or opposing general business terms of customers, as well as any conditions opposite to, or differing from our terms of sale, delivery and payment are not accepted by us, unless we shall explicitly agree to their validity. They are not even considered binding for us when we shall not contradict them when signing any contract.

In regard to entrepreneurs these terms of business will be in force as amended from time to time in respect to any future successive business. In relation to customers who are not entrepreneurs, these terms of business may be changed respectively extended on future business only in form of a contractual agreement.

All our offers are without engagement and not obligatory. They will only become obligatory for us, similarly as orders, price agreements and any other agreements in particular, when they will be changing these terms of sales, only after their confirmation by us in writing.

Any documentation referring to sales, as attached to our offers, like drawings, pictures, as well as the technical data contained therein or imparted in a different way, references to standards and statements made in advertising materials, are in no way binding information on the nature of product, nor a promise as to its properties, or a guarantee, unless they will be explicitly called by us as such in writing. The data contained therein (inclusive any data on weight and dimensions) have been compiled carefully, though the possibility of errors and omissions remains and has to be accepted.

2. Prices, Terms of Payment

Price list is valid only for commercial trade and for professional consignees. Prices quoted in our confirmation of order and prices quoted in our price list being valid at the time of the conclusion of contract, plus the value added tax as imposed by law, are in effect. In case that the cost of materials, wages, auxiliary materials or statutory dues, for reasons being out of our control, will increase considerably in the period between the conclusion of contract and delivery, if it exceeds 6 weeks, we are entitled to increase respectively the agreed upon price, on the condition of disclosing the basic calculation, as well as explaining the increase of specific cost factors in order to balance the increased costs. In relation to customers who are not entrepreneurs, we are entitled to act this way only when the period between the conclusion of contract and the time of delivery exceeds 4 months. In such a case, these customers are entitled to withdraw from the contract. The declaration of withdrawal has to be made immediately and in writing. In case no other arrangements have been made, all payments have to be made in cash within 30 days of the invoice date without any deductions whatsoever. After the expiration of this deadline – in case no other arrangements have been made – payment default comes into effect. In case of default, we are entitled to insist on interest for default according to §§ 247, 288 BGB (in case of end users – Five %, of non-end users – Eight % - in either case in addition to the current basic interest rate).

This does not exclude the possibility of any further claims, if damages are more extensive. Deduction of a discount for payment may be accepted only in case of univocal agreement and may refer only to the invoice value, with freight excluded. In any case, the deduction of a cash discount is based on the assumption that the total amount of the customer's obligations is paid. Any promissory notes and any bills for discount are accepted by us as payment only in case of an univocal agreement. Credit notes by means of cheques or bills are accepted on condition that payment will be effected, after deducting costs of discounting, possible bank and acceptance charges, at the daily value on which we may dispose of the equivalent value.

In case that after conclusion of contract, certain facts will become known to us that indicate a considerable deterioration of our customer's financial standing, and thus giving us justified doubts about the customer's solvency, we will be entitled to insist on full payment or on respective securities prior to delivery, respectively, in case of setting a deadline with no effect – to withdraw from contract. Apart from the, as proof of the considerable deterioration of the customer's financial standing, any information will be particularly considered, which in a business like way will be sought at a bank, an inquiry office or at a company being in business relations with the customer. In case the delivery already took place, all claims in connection with it will

become payable immediately, regardless of the previously agreed upon payment conditions, if necessary, by returning the accept order. We also will be entitled to insist on immediately settling all other claims resulting of the ongoing business relations with the customer and to withdraw the authorization for collection according to pos.1, no.3. The customer is only allowed to deduct claims that are uncontested, legally valid, and accepted by us. The Customer is entitled to exercise the right of retention only in case of counter claims resulting from the same contract.

In case of contracts amounting to less than 75 Euro, we reserve the right to debit a low value surcharge of 12,50 Euro. In case of minor contracts valid less than 50 Euro, in addition to the agreed upon unit prices, we shall put into the invoice respective administrative costs of 25,00 Euro.

3. Reservation of Property Rights

Until the complete fulfillment by the customer of all his payment obligations towards us resulting from our business relationship – irrespective of the legal basis – all delivered merchandise will remain our property. This also applies to payments for the delivery of merchandise to which the customer explicitly refers to. In case of running invoices, the property reservation is considered a security deposit on our balance claims. The customer commits himself to handling the merchandise with care and, on our demand, to insure it adequately against any damages for the duration of our property reservation. Then, the customer transfers to us the right for claims covered by the insurance.

The customer is entitled to sell the merchandise, being subject to our property reservation, only in a legally accepted way, and only when he is not in default; however, at this moment, he is obliged to transfer to us all our claims equal to the final invoice value (VAT inclusive). This amount will be paid following the resale to his buyers or to third parties. It does not matter whether the subject of delivery has been resold without or after additional processing. These amounts will be securing our claims in the same way as the merchandise covered by the reservation. The customer will be also authorized to collect the claims after the transfer; this will not infringe on our right to collect the outstanding claims ourselves. We only have the right to withdraw the customer's authorization for collection and to collect the claim ourselves in case of or in case of a considerable deterioration of the customer's financial standing, cf. pos.1 no. 2. In case of such an event, the customer is obliged on our demand, in case we will not do this ourselves, to immediately advise his consignees of the transfer and to supply us or furnish us with all information and documents necessary for the purpose of collection.

Processing of the delivered merchandise takes place on our behalf without any of this resulting in obligations on our side. In case that during the processing of the merchandise, being subject to our reservation, the customer combines it with other objects not belonging to us, we shall become a joint owner of the new product in a proportion of the merchandise value at the time of processing to that of the other objects also being processed. Besides, as regards the product being the effect of processing, the same applies to the case of merchandise delivered and being subject to property reservation. The customer's right for prospective advantages from the merchandise goes over onto the new product.

In case the merchandise will get inseparably mixed with other objects that are not our property, we shall acquire joint ownership of the new product in a proportion of the merchandise value to that of the other objects mixed in at the time of mixing them. If mixing will take place in such a way that the customer's element has to be considered the main element of the new product, then it is considered as agreed upon, that the customer will transfer to us the proportional joint property. The customer is going to entrust us with the sole respective joint property. The customer is not entitled to dispose of the merchandise being subject to reservation in a different way, and particularly not to pawn it, nor to transfer its property to secure a liability.

If the value of securities covering our claims will exceed them by more than 20% we, on demand of the customer, are obliged to release securities to that extent in our discretion. In case the customer will behave in discordance with contract, in particular in case of s, and if after the conclusion of contract, circumstances do arise which will endanger him meeting his commitments towards us, we are entitled to take back our merchandise. Taking back the merchandise respective vindicating our right for property reservation does not require any withdrawing from

contract by us. Such acting or pawning the merchandise on our side does not mean that we are withdrawing from the contract, unless we shall announce this explicitly in writing, after the expiration of an adequate additional deadline. After taking back our merchandise, we are entitled to utilize it. The income from its utilization is to be accounted for the claim being in force against our customer – after deduction of the respective cost of utilization. In this case, on our insisting, the merchandise is to be passed on to us immediately according to an inventory list. In case of pawning or confiscation by third parties, the merchandise being subject to reservation, or the claim which has been transferred to us, the customer is obliged to point out us as proprietors of the merchandise being under reservation or transferred to us and to inform us of this immediately by supplying us with the documentation required according to § 771 ZPO (German rules on civil proceedings) for a complaint. In case the complaint according to § 771 ZPO will prove to be successful, but the third party will not be able to bare its expenses, its expenses will be borne by the customer.

4. Liability

We are liable, no matter for which legal reason, for compensation of unlimited value for damages which have been caused deliberately or because of a gross negligence by us, by our legal representatives or our aides acting on our behalf, for damages resulting of affected life, body or health, even if resulting due to minor infringement of duties on our side, by our legal representatives or our aides acting on our behalf, for damages resulting of the lack of a guaranteed property or of defects which we have deliberately concealed.

In the relation between enterprises, we are liable for infringement of important obligations resulting from contracts, in case our liability has not been justified above – to the level limited for a typical for a contract damage that could be foreseen at the moment of signing the contract. Any further liability for the compensation of damages, in particular liability without being guilty, is excluded. Any liability resulting of the Product Liability Law remains untouched.

5. Place of Performance and Court of Jurisdiction

Place of performance of all rights and duties of both contract parties, including the payment obligation of customers – is Dortmund, FRG. In case of contracts with entrepreneurs, legal persons according to public law or to the public-legal separate estate, the court of jurisdiction for all litigations resulting of contract relations is exclusively Dortmund, FRG.

6. German Law, Partial Inefficacy

The law of the Federal Republic of Germany is in full force and effect. The UN Commercial Law (CISG) is excluded. The inefficacy of individual stipulations of these terms does not affect the efficacy of the remaining regulations. The contract Parties commit themselves to replace the in-eficacy obligations with stipulations closest to the intended result and on which the parties would agree upon, if they knew that these stipulations are in inefficacy.

II Execution and Delivery

1. Delivery Time

Any delivery time starts with the date of confirmation of order, however, not prior to the customer fulfilling in due time and orderly manner his obligations, and particularly not prior to supplying by the customer the respective documentation, acceptances, releases and not prior to making the agreed upon advance payment.

In case a delivery time has been promised as binding, it will be considered as kept, when and if the merchandise will be sent by us in due time or announced as ready for delivery. This does not refer to cases when an acceptance of merchandise has been conditioned by contract or when an assembly obligation has been agreed upon.

Appropriate and in-time advance delivery is reserved. Delivery terms and periods get extended by the period of a hindrance, and a respective time for restarting in case of act of God, in case of measures taken in connection with unrests of social nature, particularly with strikes and lock-outs and in case of the occurrence of uncommon events being not a fault of the parties, of

interference of authorities, of problems with energy supplies, etc. which are beyond our control, and in case that such circumstances and events will influence the manufacturing respectively the delivery of merchandise. The same holds true in cases when such circumstances and events take place with respect to our sub-suppliers. Our customer will be immediately informed of such circumstances. In case that a party will consider such events or circumstances unfavorable for the execution of contract, it is entitled to withdraw from the contract. In all such cases, any claims for indemnification are excluded.

2. Partial Deliveries, Orders for Delivery on Demand

We are entitled, within a reasonable range, to render partial services. In case of orders for delivery on demand, we are entitled to manufacture respective to have manufactured the entire ordered volume as one lot. Therefore any possible requests for changes will not be considered anymore after the conclusion of contract, unless this will be explicitly agreed upon. Terms respective volumes of deliveries which have not been fixed by contract, may be kept by us only within our delivery resp. manufacturing possibilities. In case the merchandise will not be called out according to the stipulations of the contract, we will be entitled to charge for it after delivery in a reasonable additional time.

3. Approval and Acceptance

In case that after notifying the customer that the merchandise is ready for delivery, he will not approve the merchandise, nor approve it in the agreed upon time or not all of it, we will be entitled to take the merchandise into a warehouse and to charge the customer with our respective costs resp. with the costs of our subcontractor warehouses or, after fixing a reasonable additional time for approval- to supply the customer the merchandise at his expense

In case the purchase is a business deal for both parties, then the customer, unless chapter 1 will become applicable, has to notified by Fax of any external, visible defects within 8 days from receipt of merchandise. Hidden defects should be claimed in writing in the form stated above within 2 months from their discovery, by stopping any processing of resp. with it.

4. Shipping and Transfer of Risks

Material that has been declared as ready for shipment, must be immediately called out for delivery according to the stipulations on delivery. Otherwise, we are entitled at our discretion to the expense of the customer, to store it and after notifying its readiness for delivery – to charge the customer with it as delivered on the “ex factory” basis. In case that according to contract, the merchandise should be delivered by truck, and the merchandise will not be picked up within 5 days after our notification of its readiness for delivery, which will be meeting the agreed upon delivery time, we will be entitled to send the merchandise by means of transport at our discretion. This does not affect the legal stipulations regarding the default of acceptance.

With respect to customers being entrepreneurs, the following applies:

By transferring the merchandise to a forwarding agency, a carrier or freighter, at the moment of leaving the factory at the latest, any risk, risk of confiscation inclusive, goes over to the customer. This is also valid in case when free of charge freight delivery is agreed upon. In such a case, the routes, means of transport and protection measures will be at our discretion. Any means of protection, either covered, open or special trucks, will be charged separately. The transport will be effected on the customer's order. In case that due to circumstances the customer is responsible for, the delivery is delayed, the risk goes over to the customer on the day of our notification of readiness for delivery. Upon the customer's request, the merchandise can be insured by us at his expense against the risk of theft, breaking, transport, fire, water, and any other damages.

5. Material Defects and Defects of Title

Any services confirmed by us will be executed using current state of the art technology and adhering to all respective legal stipulations, as well as by observing the typical standards of care and diligence for the industry. The condition for our responsibility for material and legal defects, hereinafter called “defects” is, that these are not result of inappropriate use, of inappropriate assembly resp. start-up, of negligence in handling or of the application or use of inadequate means of production resp. substitute materials by the customer or by third parties, of natural wear, of inadequate building and construction work, of chemical, electrochemical and electrical influences – as long as these circumstances are not result of our fault, and the customer has met his obligations according to pos. II no.3, and by taking into consideration the respective warranty condition – not fallen into default of payment.

In case of claimed defects, the payments on the side of the customer may be withheld in an adequate proportion to the fault in question, and only in case when his claims will be found incontestable or legal.

With respect to customers being entrepreneurs, the following applies:

In case the merchandise will have a defect, for which the reason was already obvious at the moment of risk transfer, the customer is entitled, at our discretion, to be compensated by means of a repair or an additional delivery.

Expenses necessary in this context, e.g. cost of wages, materials, transport and equipment maintenance will be covered by us only in case that the expenses will not increase because of transferring the merchandise later on to a different place than that of the customer's location, unless this transfer is necessary as a result of the proper intended use. Parts that have been replaced become our property and are to be returned to us. In case of customer non-fulfillment, he will be entitled – at his discretion – with no prejudice to his right to possible compensation of damages resp. of his expenditures according to pos. I no.4, to decrease the payment or, in case of a considerable violation of our obligations – to withdraw from the contract.

The customer's claims of recourse against us according to § 478 BGB (German Civil Code) exist only to the extent of the customer's arrangements with his acceptor which do not go beyond the legal regulations on claims in connection with defects and the respective regulations, as contained in this chapter. In case that the customer will be considered in connection with a fault of a newly manufactured product, he is obliged to immediately inform us of this. In case his consignees are entrepreneurs, it is his duty to respectively commit them. We reserve the right to settle on behalf of the customer claims of consignees addressed to our customer. In this case, settling the claims of the consignee will be considered as settling respective claims of the customer. Claims regarding defects expire after 12 months. This does not apply when the claims are referring to our deliberate acting or when according to § 438 pos.1 no.2 (building structures, materials for building structures), § 479 pos.1 (claims of recourse), § 634 a pos.1 no.2 (building structure defects) BGB, longer time periods are compulsory. We are liable for replacing elements resp. repairs up to the lapse of the expiration time limit that refers to the original consignment. In case the customer's claim will prove to be unjustified, we are entitled to insist that the customer covers our expenses that were borne by us in this context.

With respect to customers not being entrepreneurs, the following applies:

With respect to claimed defects, legal stipulations are in force, unless a different solution, as follows, will be found. Claims regarding defects have an expiration period of two years, in case of used merchandise one year. This does not apply when the claims are referring to our deliberate acting or when according to § 438 pos.1 no.2 (building structures, materials for building structures), § 479 pos.1 (claims of recourse), § 634 a pos.1 no.2 (building structure defects) BGB, longer time periods are compulsory. We are liable for the replacing of elements resp. for repairs up to the lapse of the expiration time limit that refers to the original consignment.

6. Returns

Products that have been delivered by us in proper condition and returned to us will be only be accepted by in exceptional cases and according to our possibilities, when their condition is excellent and when they are not objects made to order. In such cases, we charge 25% of merchandise value to cover our expenses, in any case a minimum of at least 50,- EURO.

7. Dimensions, Weights, Quality Grades

Differences in measures, weights and quality are acceptable within the frame of trading practice resp. of the DIN stipulations. The weights which are stated by our weighers on our scales, which are subject to gauging and to a running control, are a reliable base for our calculations. In case of deliveries by trucks, the total truck load is becoming the base for the calculations. Differences with respect to individual weights are to be proportionally divided among them. The proof for the weight is a respective weighing report.

III Intellectual Property Rights

We reserve unlimited intellectual property rights and copyrights for using cost estimates, drawings, designs and other documents. Such documents may be made accessible to third persons only with our explicit consent. Drawings and other documentation being elements of our offers are to be returned to us on demand. In case that the merchandise has been manufactured by us using drawings, models, samples or other materials, as supplied by the customer, the liability connected with the protection of copyrights of third parties goes over to the customer. In case that with reference to their copyrights, third parties in particular will not agree that such products are manufactured and delivered by us, we are entitled, with no obligation on our side to check the legal status, to stop any further activity and in case of the customer's fault – to insist on a compensation. The customer also commits himself to inform us immediately of any claims of third parties in this context.

IV Additional Conditions regarding Exports

In case these sales conditions or any special arrangements will not determine anything different, our sales obligations will be governed by Incoterms – the international terms of trade, in their version valid on the day of the confirmation of order.

Valid are prices set in our confirmation of order. Our prices are based on the assumption of regular, unrestrained transport conditions, and an case of transport by sea – e.g. unrestrained ship transport. Any additional expenses resulting of an incomplete load, or of transport restraints are to be covered by the customer. When customs duties, consular dues, freights, insurance premiums and other extra expenses covered by the agreed upon price will increase after the conclusion of contract, or when new expenses will arise, they will be covered to this extent by the customer. Same refers to additional expenses which will result of the necessity of transporting the merchandise in a different way than agreed upon. If nothing else has been agreed, the payment should be effected immediately on receipt of invoice with no reductions whatsoever.

In case of damages resulting of transport, the customer is obliged to immediately induce bodies in charge to prepare a respective report, as otherwise the claims against the transporter and insurers will not be accepted. These conditions refer to the sales on the Fob basis and respectively to any other types of sales, in particular to sales on the franco-ship or cif-harbour of unloading basis. In case of any doubts, or varying interpretations stemming from translations of legal terms or applicable federal, state or local law, only the German version of our terms of sales, delivery, and payments is valid on an exclusive basis.

Dortmund, 06/2010

Dear Customer: The articulation of rules among businessmen has to done in “Legalese” linguistic terms. However, we can assure you, that for us, you – our customer – are the no.1 in our business relations. You may rest assured that in case of any differences of opinions, you will find in us a forthcoming and fair business partner.

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Edition 10

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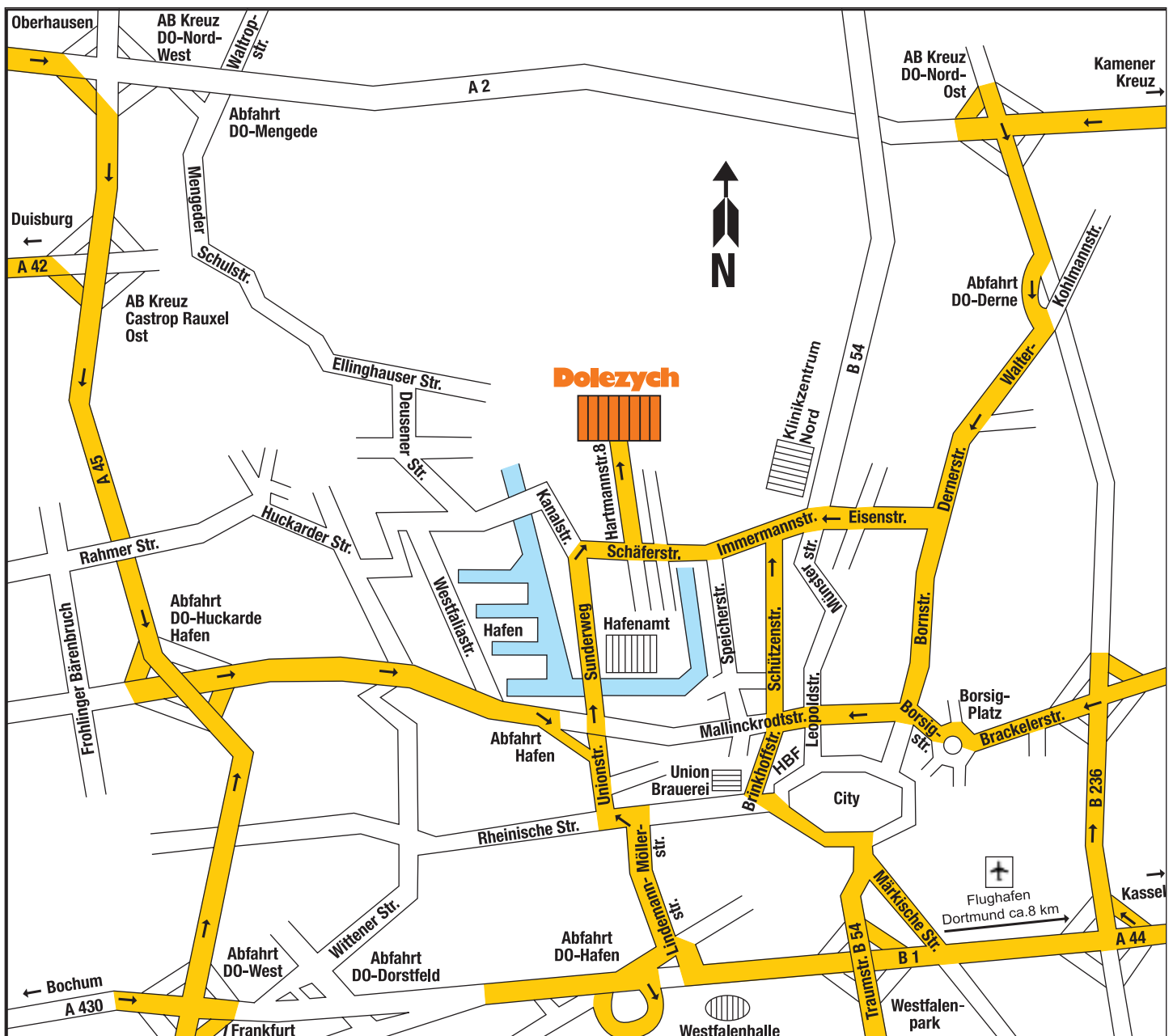
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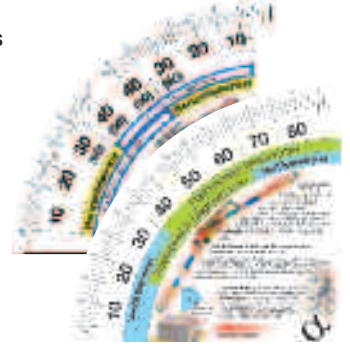
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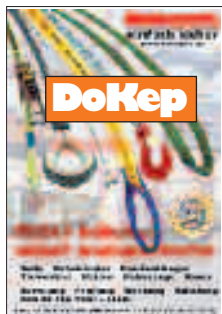
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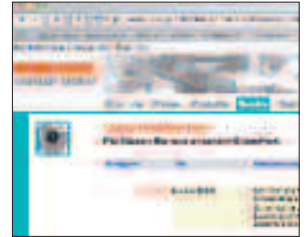
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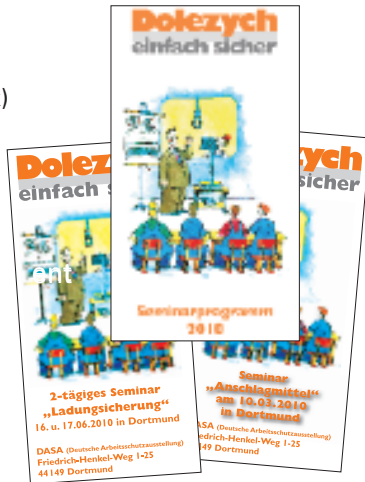
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