

# **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 carrying load capacity 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.

**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 carrying load capacity 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:

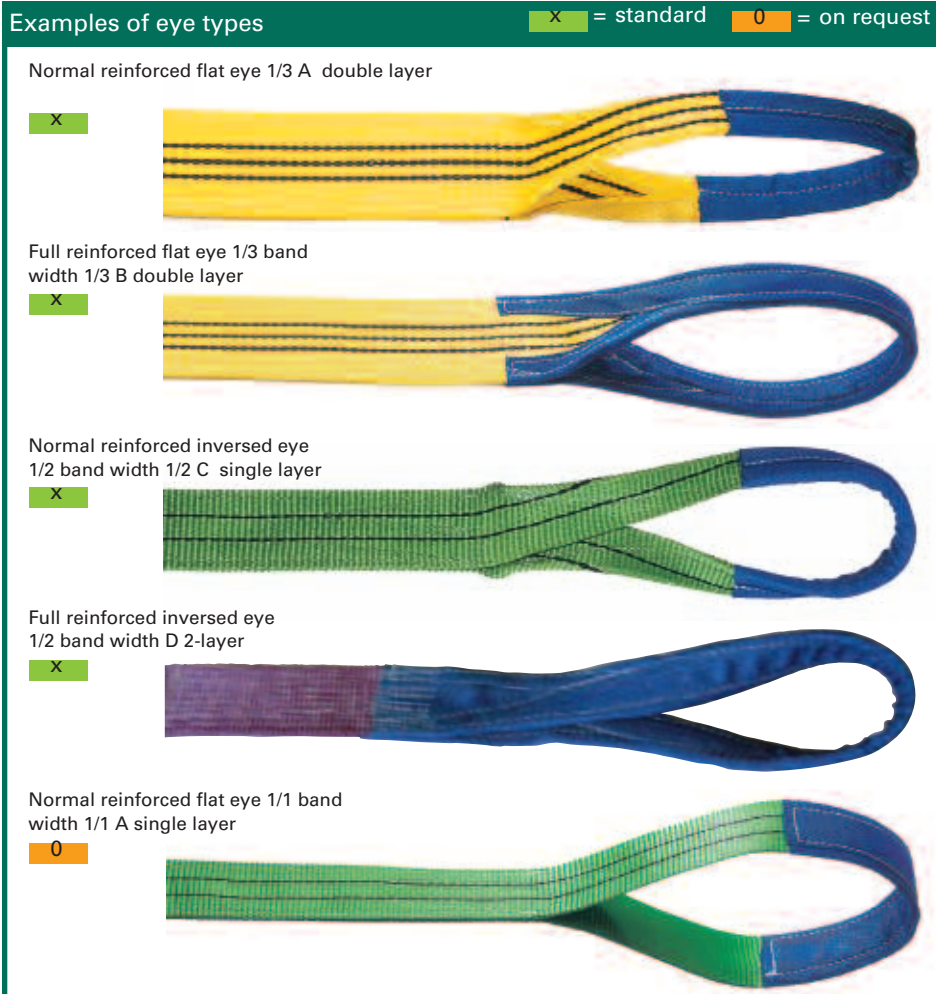
We provide web slings with different types of loops depending on width and the number of layers (see table below). We deliver a standard of single reinforcement (normal reinforcement) unless you order something different. Full reinforcement offers full protection for the eye in a crane hook, increases 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.

### Overview of eye widths and eye types

band width mm	number of layers	flat eye						inverted eyes					
		normal reinforcement			full reinforcement			normal reinforcement			full reinforcement		
		A	B		A	B		C	D		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

# Eye slings Stirrup slings Endless web slings Roundslings



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.

## 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 carrying load capacity 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 carrying load capacity 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.

## 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 carrying load capacity.

Web slings and roundslings with a carrying load capacity 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.

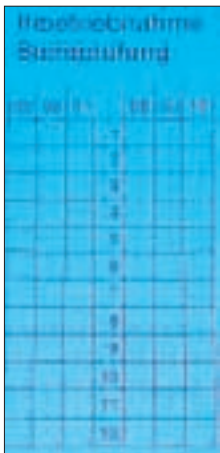
As a standard procedure, all three materials are being thermoset and pre-stretched. This means that, additionally to dyeing and smoothing, each material receives an exactly determined elongation capacity for both carrying load capacity and tearing load. If the elongation capacity is too high, a so-called 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



# Eye slings Stirrup slings Endless web slings Roundslings

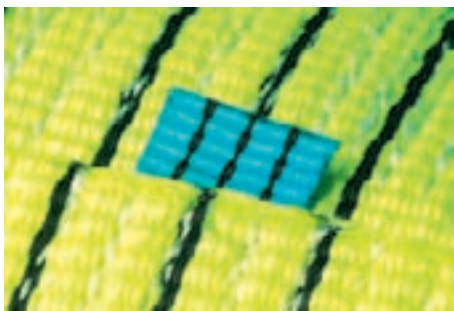
## DoDate – the additional data-carrying label for web slings and roundslings

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** fascinates 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 carrying load capacity 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 % carrying load capacity (as marked on the label).

## Eye slings Stirrup slings Endless web slings Roundslings

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!

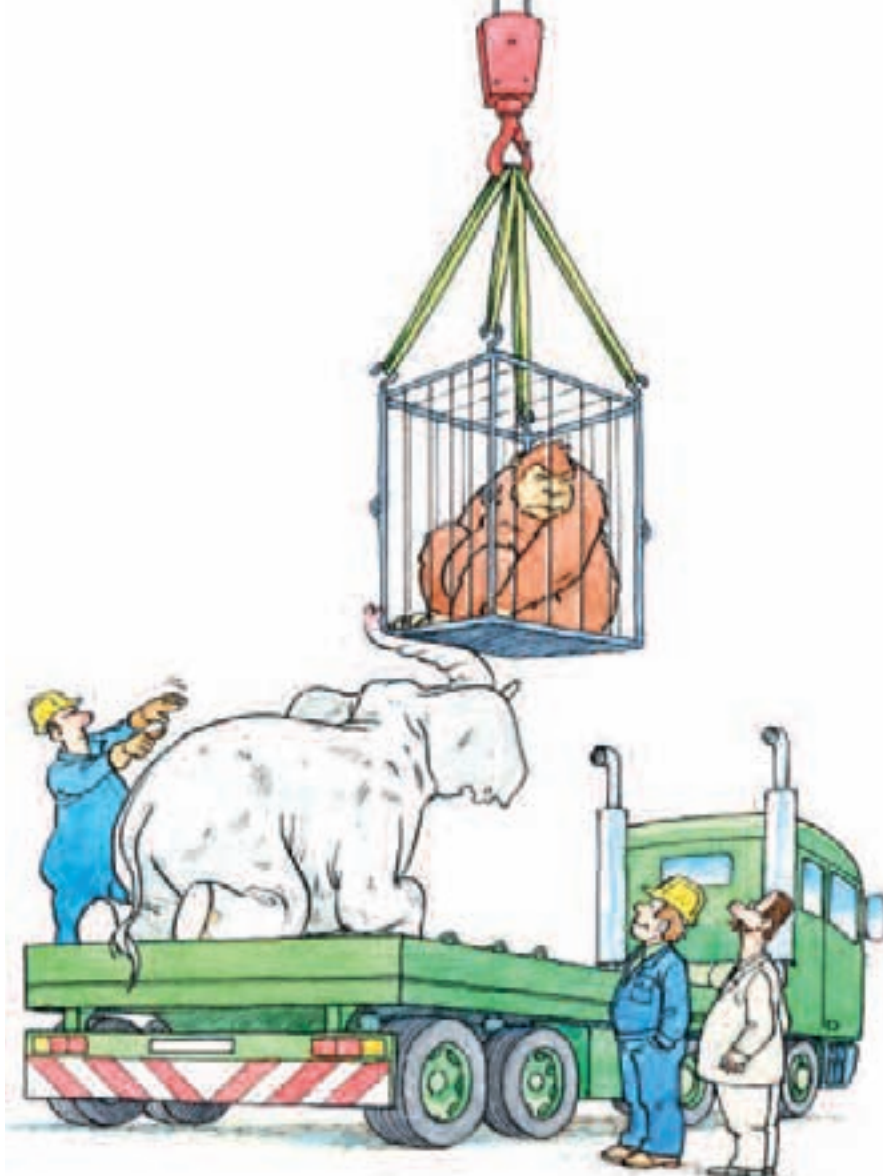
### DoLex

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.**

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 carrying load capacity 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
- Carrying load capacity 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 ( $\beta \leq 60^\circ$ )
			( $\beta \leq 45^\circ$ ) ( $\beta \leq 60^\circ$ )
			( $\beta \leq 45^\circ$ ) ( $\beta \leq 60^\circ$ )

$\beta$  = inclination angle (angle between vertical and web sling)

LA = lifting type factor (related to direct carrying load capacity)

Example: carrying load capacity 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. DoForce roundslings additionally have

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

their carrying load capacity 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 carrying load capacity.

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  $\beta$ : The higher the inclination angle, the lower the carrying load capacity. Inclination angles higher than  $60^\circ$  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 carrying load capacity.

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  $20^\circ$  must not be exceeded e.g. for lifting on a crane hook. For short eyes use reduction suspensions.

**Aperture angles of more than  $20^\circ$  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.

**Carrying load capacity 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 carrying load capacity 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.



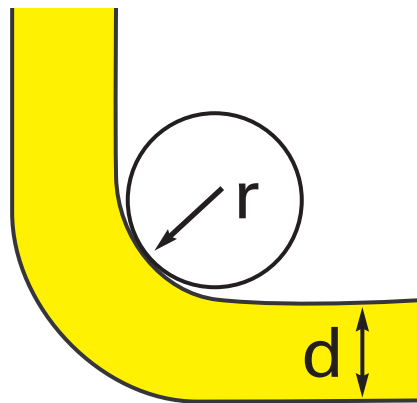
Warning: Persons in danger include all slingers and other persons staying in the transport area.

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 carrying load capacity 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 carrying load capacity

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: 0049231-82 75 98

# Eye slings double layer Eye type A

**DoColor**

... Eye sling double layer  
... tapered eye with standard



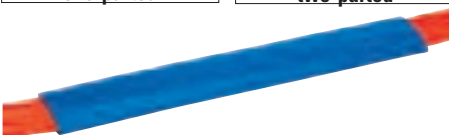
## DoColor eye sling, double layer flat eye with normal reinforcement, type A

article no.	carrying load capacity in kg		band width x depth in mm	length of eye mm	width of eye mm	min. length mm
	single layer	double layer				
0561 9602	1000	2000	30 x 7	200	15	850
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 normal reinforcement



## PVC protection hoses



article no.	for web slings up to band width
5500 0040	30mm
5500 0060	50mm
5500 0080	60-75mm
5500 0100	90mm
5500 0160	120-150mm
5500 0180	180mm
5500 0200	200mm
5500 0240	240mm
5500 0300	300mm

## PU protection hoses



article no.	for web slings up to band width
5500 2040	30mm
5500 2065	50-60mm
5500 2080	65-75mm
5500 2100	90mm
5500 2120	120mm
5500 2160	140-150mm
5500 2180	160mm
5500 2250	240mm
5500 2300	300mm

**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 44-55.

reinforcement



## Eye slings double layer Eye type A

**DoColor**

### 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 normal 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 normal 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:

- normal 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	flat eyes						inversed eyes					
		normal reinforcement			full reinforcement			normal 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!**

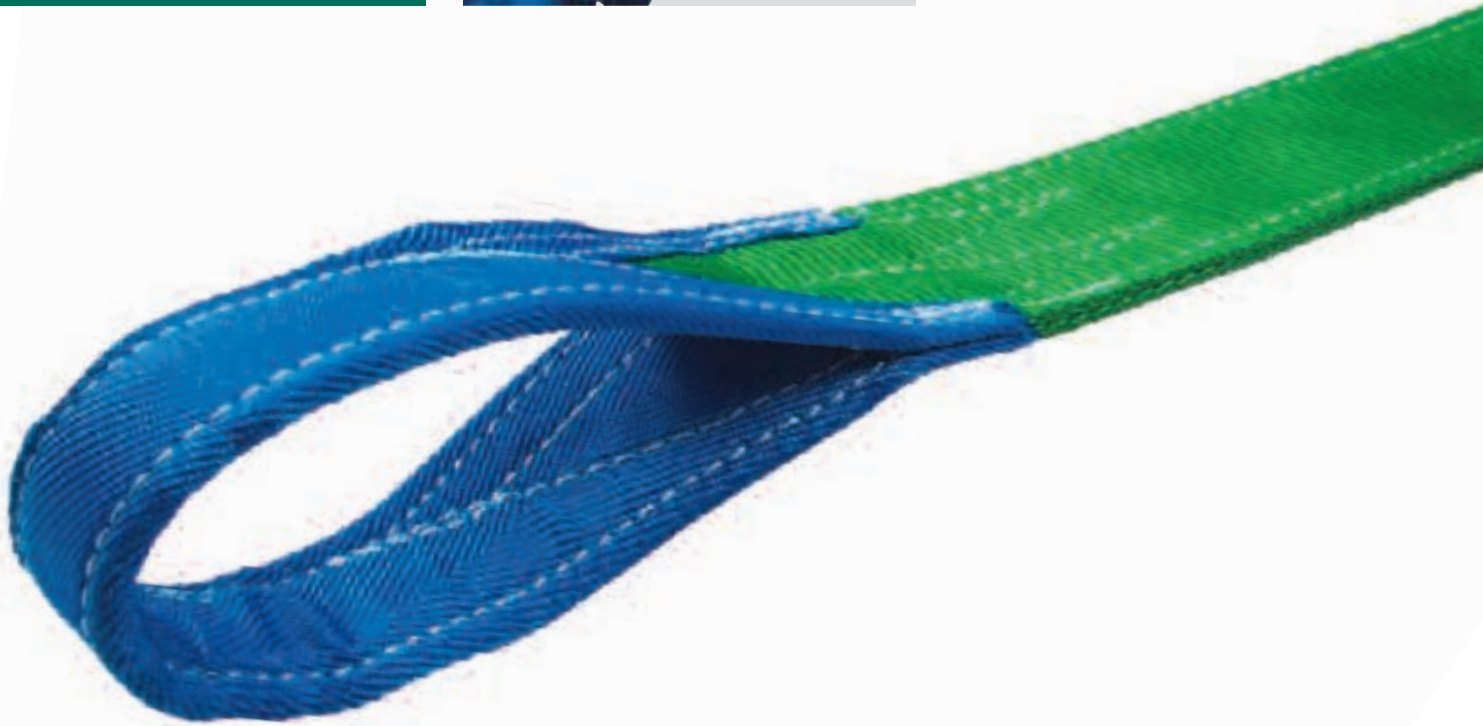
# Eye slings double layer Eye type B

**DoColor**



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!

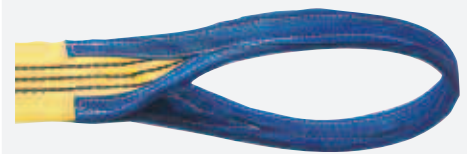
... Eye sling, double  
... tapered, fully reinforced



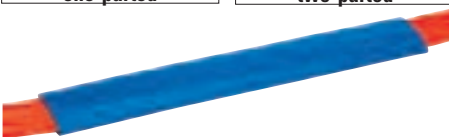
## DoColor eye sling, double layer flat eye with full reinforcement, type B

article no.	carrying load capacity in kg		band width x thickness mm	length of eye mm	width of eye mm	min. length mm
	single	double				
0561 9604	1000	2000	30 x 7	200	15	850
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



article no.	for web slings up to band width
5500 0040	30mm
5500 0060	50mm
5500 0080	60-75mm
5500 0100	90mm
5500 0160	120-150mm
5500 0180	180mm
5500 0200	200mm
5500 0240	240mm
5500 0300	300mm

## PU protection hoses



article no.	for web slings up to band width
5500 2040	30mm
5500 2065	50-60mm
5500 2080	65-75mm
5500 2100	90mm
5500 2120	120mm
5500 2160	140-150mm
5500 2180	160mm
5500 2250	240mm
5500 2300	300mm

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!



layer  
enforced eye



## Eye slings double layer Eye type B

**DoleColor**

### 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 inversed eye with re



**DoColor eye sling, single layer inversed eye with normal reinforcement, type C**

article no.	carrying load capacity in kg		band width x thickness mm	length of eye mm	width of eye mm	min. length mm
	single layer	double layer				
0531 9002	500	1000	30 x 3.5	200	15	850
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 regular reinforcement



Type D: eye sling inversed eye with full reinforcement \*



**PVC protection hoses**




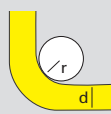
article no.	for web slings up to band width
5500 0040	30mm
5500 0060	50mm
5500 0080	60-75mm
5500 0100	90mm
5500 0160	120-150mm
5500 0180	180mm
5500 0200	200mm
5500 0240	240mm
5500 0300	300mm

**PU protection hoses**



article no.	for web slings up to band width
5500 2040	30mm
5500 2065	50-60mm
5500 2080	65-75mm
5500 2100	90mm
5500 2120	120mm
5500 2160	140-150mm
5500 2180	160mm
5500 2250	240mm
5500 2300	300mm

\*Prices 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 44-55.

gular reinforcement



Eye slings  
single layer  
Eye type C  
Eye type D

**Dolezych**

**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

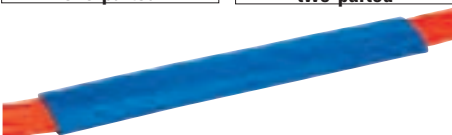
**DoAntiCut Eye slings, double layer, flat eye, full reinforcement,**

article no.	carrying load capacity single	carrying load capacity double	band width x thickness mm	length of eye mm	width of eye mm	min. length L mm
0564 9752	2000	4000	60 x 7	300	30	1300
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**



article no.	for web slings up to band width
5500 0040	30mm
5500 0060	50mm
5500 0080	60-75mm
5500 0100	90mm
5500 0160	120-150mm
5500 0180	180mm
5500 0200	200mm
5500 0240	240mm
5500 0300	300mm

**PU protection hoses**



article no.	for web slings up to band width
5500 2040	30mm
5500 2065	50-60mm
5500 2080	65-75mm
5500 2100	90mm
5500 2120	120mm
5500 2160	140-150mm
5500 2180	160mm
5500 2250	240mm
5500 2300	300mm



Aperture angles 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!





Eye slings  
with extended  
workload capacity  
double layer  
Eye type B

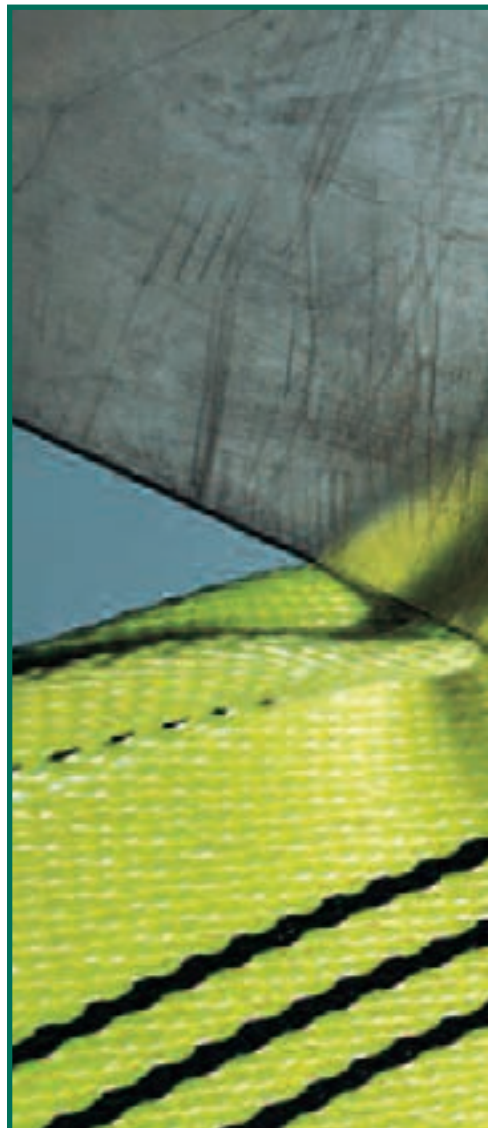
**DoAntiCut**


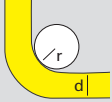
### DoAntiCut eye slings

#### 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. do determine carrying load capacity in low light conditions DoAntiCut eye slings are produced in luminous "Eurocolours"

### 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 44-55.

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 long-term use



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

article no.	carrying load capacity		band width x thickness	length of eye mm	width of eye mm	min. length L mm
	single	double				
0567 9602	1000	2000	50 x 6	200	25	850
0567 9752	2000	4000	75 x 8	300	25	1300
0567 9782	3000	6000	100 x 8	350	35	1500
0567 9852	4000	8000	125 x 8	425	45	1600
0567 0002	5000	10000	150 x 10	500	50	1900

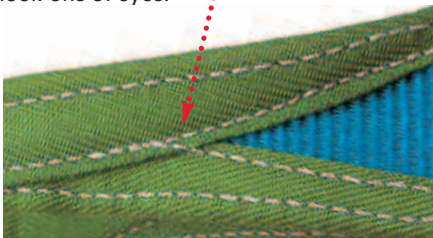
Type B flat eye, full reinforcement



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

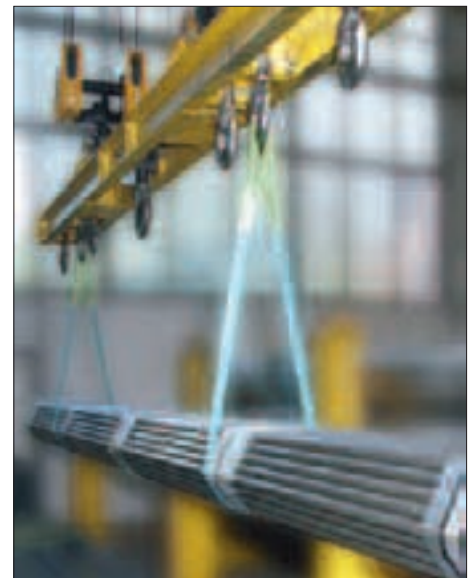


Double seams prevent unintentional hook-ons of eyes.



**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.



Eye slings  
double layer  
Eye type B

DoPremium



## DoPremium

### Your advantages for practical use:

If the safety factor 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 stirrup slings remains at 7-8 and thereby completely fulfil your safety expectations over the whole service period.

Because of this, DoPremium stirrup 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.



# 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 carrying load capacity than web slings, respectively a wider contact area with corresponding carrying load capacity 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.

As a suspending element, web slings are used which results in lower carrying load capacities than textile mats.

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

	carrying load capacity kg		article no.	standard mat width* mm
	single	double		
	2000	4000	0514 2562	200
	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

article no.		stirrup width mm	standard matt width* mm
0540 2102	1000/2000	30	200
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!



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

# DoFix DoMarkPlus

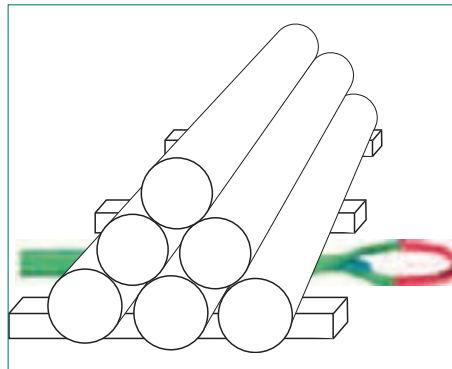
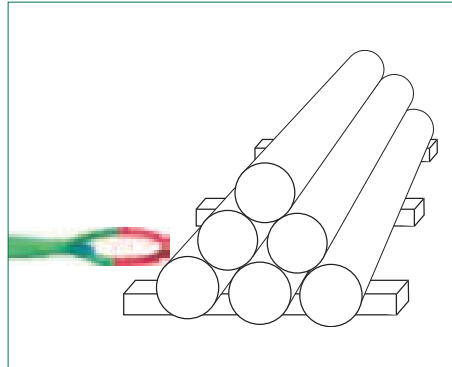
### DoFix – the stiff eye

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

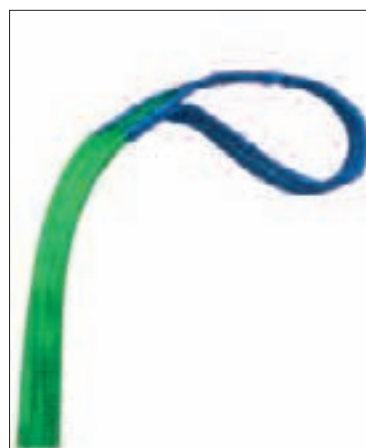
Dolezych also produces web slings with a special eye-stiffening sewing technique. This allows for the web slings to be pushed through under loads like a lifting rope.

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

DoFix is exclusively available for a carrying load capacity 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

Article no. 0599 0055  
Price per piece EUR 0.75

#### 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.



# Stirrup slings single layer + double layer

**DoColor**



**DH 100**

## DoColor stirrup slings DH 100 single layer

article no.	carrying load capacity kg single	double	band width X thickness mm	min. length L1 mm
0511 7002	500	1000	30 x 3.5	650
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

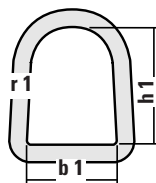
article no.	carrying load capacity kg single	double	band width X thickness mm	min. length L1 mm
0511 8002	1000	2000	30 x 7.0	650
0511 8102	1000	2000	50 x 6.0	650
0511 8202	2000	4000	60 x 7.0	900
0511 8252	2000	4000	75 x 6.0	900
0511 8302	3000	6000	90 x 7.0	1100
0511 8352	3000	6000	140 x 6.0	1400
0511 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

carrying load capacity 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



**Always ensure a lateral position of the weld seams for your lifting sling stirrups!**



## Stirrup slings single layer + double layer DH 200

**DoColor**



**DH 200**

### DoColor stirrup slings DH 200 single layer

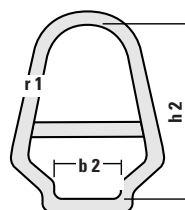
article no.	carrying load capacity kg single	double	band width X thickness mm	min. length L1 mm
0521 7002	500	1000	30 x 3.5	650
0521 7102	500	1000	50 x 3.0	650
0521 7202	1000	2000	60 x 3.5	600
0521 7252	1000	2000	75 x 3.0	900
0521 7302	1500	3000	90 x 3.5	1100
0521 7352	1500	3000	140 x 3.0	1400
0521 7402	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

article no.	carrying load capacity kg single	double	band width X thickness mm	min. length L1 mm
0521 8002	1000	2000	30 x 7.0	650
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



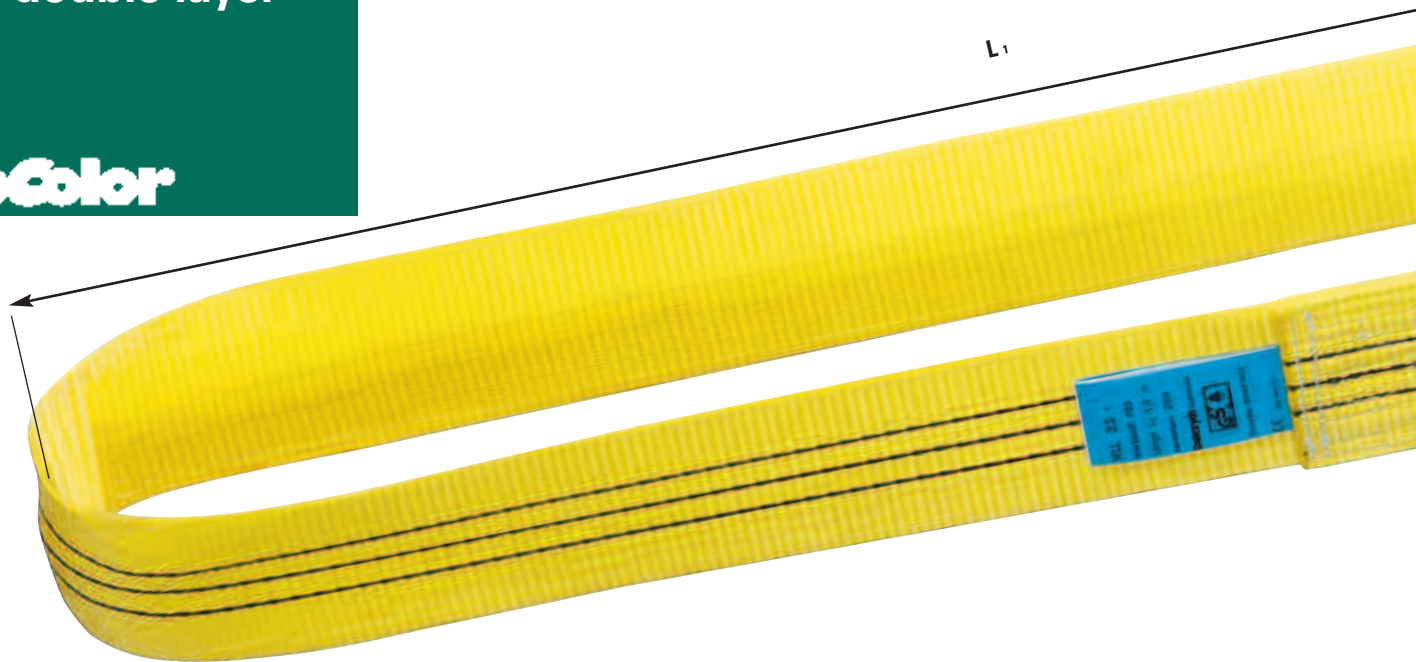
carrying load capacity kg	stirrup diameter r 1 mm	height h1 mm	width b1 mm
1000	13	145	100
2000	16	165	120
3000	20	195	150
4000	22	230	185
5000	26	295	225
6000	30	325	295
8000	32	330	345
10000	36	428	430



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

# Endless web slings single layer and double layer

**DoColor**



## DoColor endless web slings single layer

article no.	carrying load capacity kg		band width X thickness mm	min. length L mm
	single	double		
0542 1902	500	1000	25 x 4.0	350
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

article no.	carrying load capacity kg		band width X thickness mm	min. length L mm
	single	double		
0582 2902	1000	2000	25 x 8	400
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)

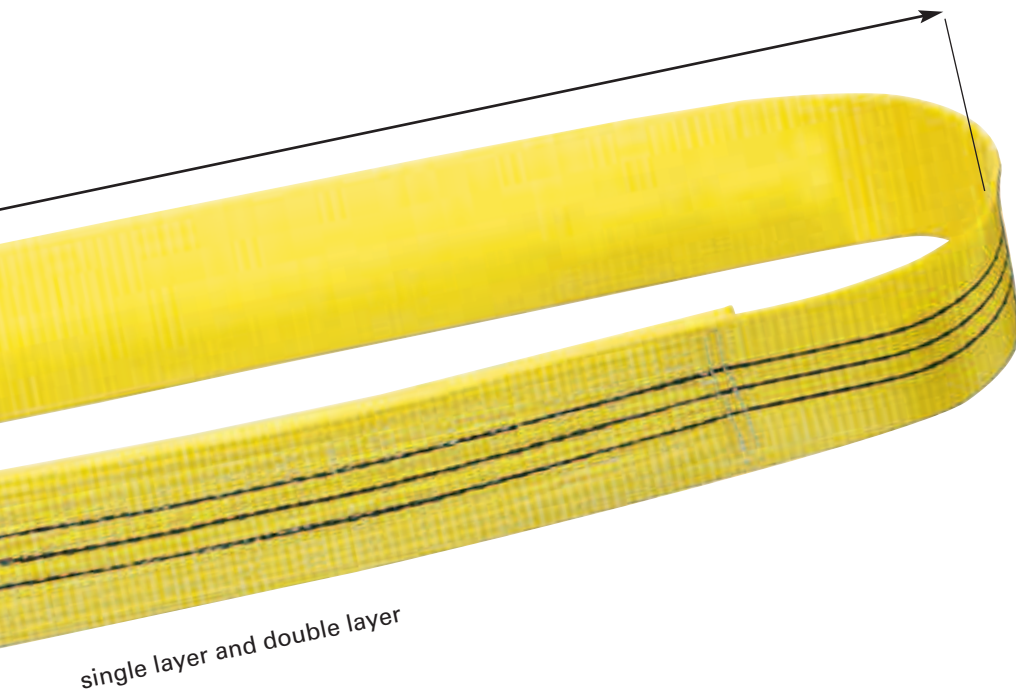
## Lifting types and carrying load capacity factors

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

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







single layer and double layer

## Endless web slings single layer and double layer

**DoColor**

### 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 carrying load capacity 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 carrying load capacity 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 carrying load capacity 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 chocking 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 chocking 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 carrying load capacity 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 European 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 carrying load capacity 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 Europe) 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; prices and other carrying load capacities upon request.

band width mm	carrying load capacity kg (eye sling)		carrying load capacity 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 DIN 60005 disposable slings

**Dolezych**

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

article - no.	band - width mm	Tcarrying load capacity in kg Safety factor = 5	
		single	double
0543 0482	50	750	1500
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  $L1 = 0.40 \text{ m}$ ,  $0.41 \text{ m}$  and  $0.50 \text{ m}$ , equipped with an orange label.



WLL 1,0 t  
 Werkstoff: PE3  
 Länge L<sub>1</sub> 0,50 m  
 Hersteller: 2016  
 DOLEZYCH  
 SF 51  
 CEN 8034 1994  
 CE 201611

# 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:

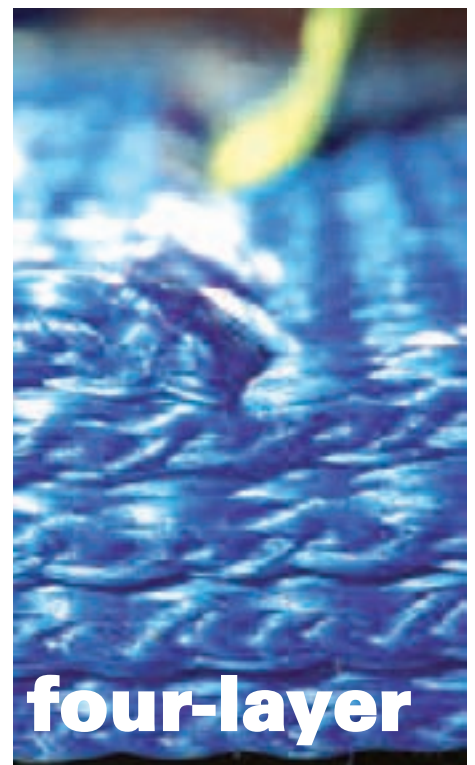
- For use with heavy loads up to 40 t (double the carrying load capacity compared to other double layer eye slings or stirrup slings of the same width)
- For use in confined spaces as the bandwidth is only half the size of double layer stirrup slings of the same carrying load capacity

## DoColor eye slings 4 layer

	article no.	carrying load capacity		band width x thickness	eye width mm	length of eye mm	min. length mm
		single	double				
Green	0559 0302	2000	4000	30 x 14	30	200	1000
Yellow	0559 0652	3000	6000	65 x 12	35	300	1500
Grey	0559 0602	4000	8000	60 x 14	30	300	1500
Red	0559 0852	5000	10000	100 x 12	45	350	2000
Brown	0559 0902	6000	12000	90 x 14	45	350	2000
Blue	0559 1202	8000	16000	120 x 14	60	425	2000
Orange	0559 1502	10000	20000	150 x 14	75	500	2500
	0559 1802	12000	24000	180 x 14	90	550	2500
	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.36/37)

	DH 100 article no.	DH 200 article no.	carrying load capacity kg		band width x thickness	min. length mm
			single	double		
Green	0513 0302	0523 0302	2000	4000	50 x 12	650
Yellow	0513 0652	0523 0652	3000	6000	65 x 12	900
Grey	0513 0602	0523 0602	4000	8000	60 x 14	900
Red	0513 0852	0523 0852	5000	10000	100 x 12	1100
Brown	0513 0902	0523 0902	6000	12000	90 x 14	1100
Blue	0513 1202	0523 1202	8000	16000	120 x 14	1400
Orange	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**



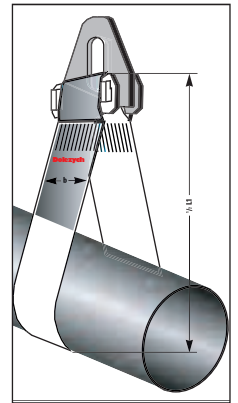
## Pipeline-lifting sling mats

**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. Carrying load capacity 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



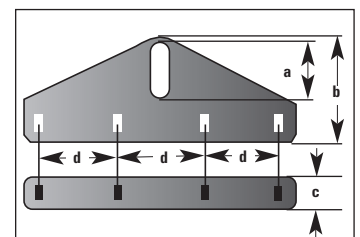
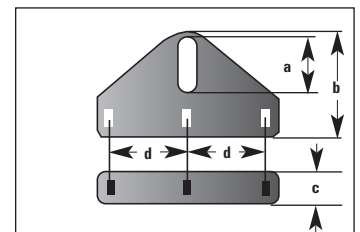
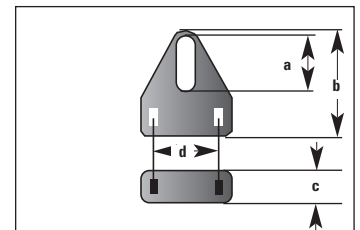
### DoColor pipeline lifting sling mats

article no.	carrying-load capacity kg	band width mm
0511 9302	16.000	300
0511 9602	32.000	600
0511 9902	48.000	900

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



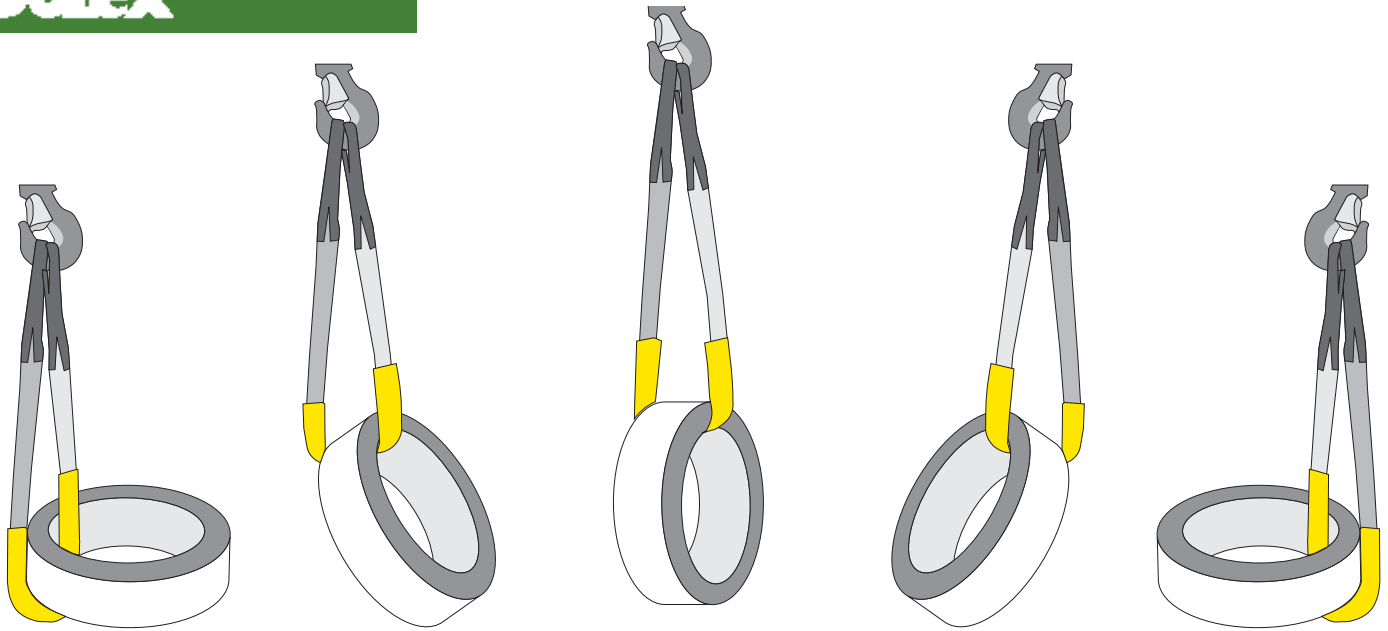
Please contact us for info on dimensions of traverses!



# Sharp edge protection

## Profile hoses

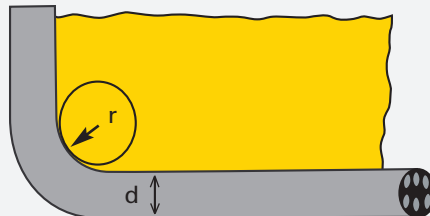
**DoLex**



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?

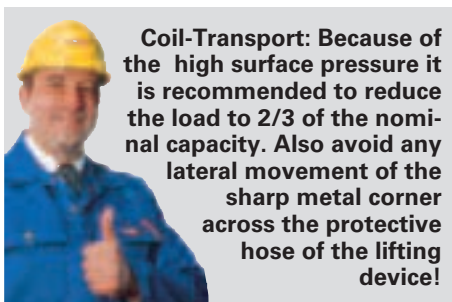
The web sling or roundsling is equipped with a textile profile hose which is coated with a minimum of 5 mm polyurethane. These are slideable and replaceable profi-

le hoses called DoLex 1+2).

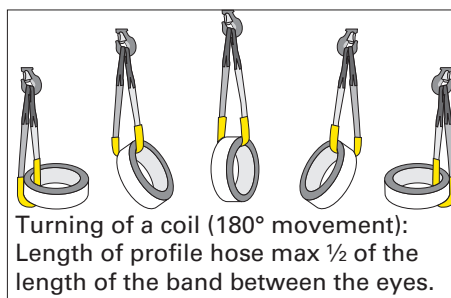
Alternatively, a web sling can be sealed with at least 5 mm of polyurethane on each side. This coating is fixed permanently to the web sling (DoLex permanent coatings see pages 49-51).

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

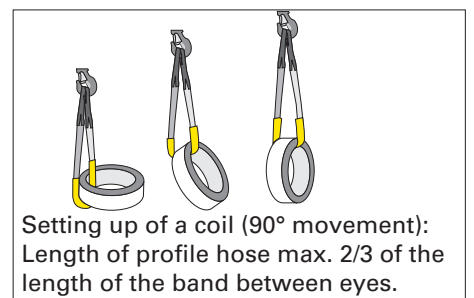
**\*Polyurethane** is a very resistant material. Compared to the flat state it becomes harder and more resistant against cuts when it is laid around a sharp edge. This effect results from the molecular structure which is compressed by a stressed surface.



**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.



Sharp edge protection

Profile hoses

**DoLex**

### 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.



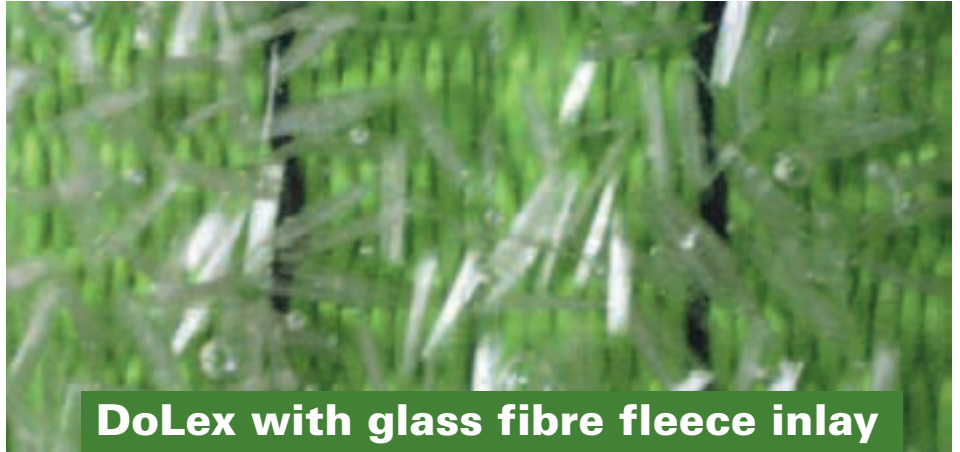
### DoLex 2 profile hose with rounded edge

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

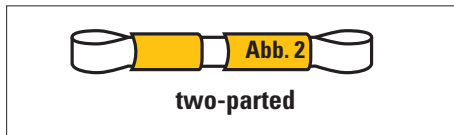
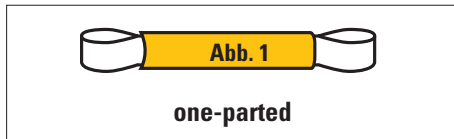
Profile hoses

**DoLex**

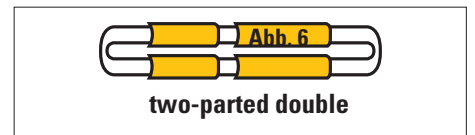
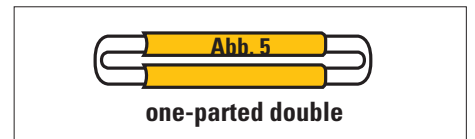
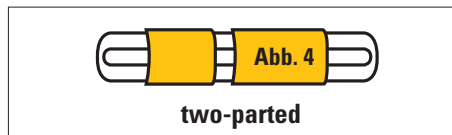
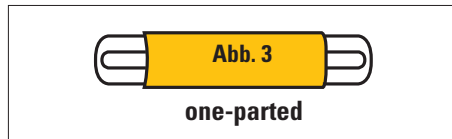


**DoLex with glass fibre fleece inlay**

variety of DoLex protective  
hoses for eye slings



variety of DoLex protective hoses for web slings / round slings



DoLex profile hose, one-sided smooth

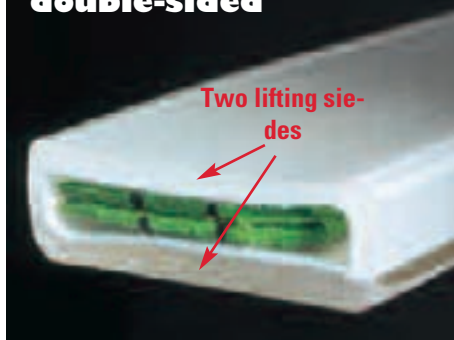
**DoLex-profile hose one-sided**



article no.	for web slings band width in mm	for round slings	
		as shown in 3 and 4	as shown in 5 and 6
5598 0500	30	–	500 kg / 1000 kg
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

**DoLex-profile hose double-sided**



article no.	for web slings band width in mm	for round slings	
		as shown in 3 and 4	as shown in 5 and 6
5598 0502	30	–	500 kg / 1000 kg
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	–





Sharp edge  
protection

Profile hoses

**DoLex**



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

### DoLex profile hose ribbed / smooth

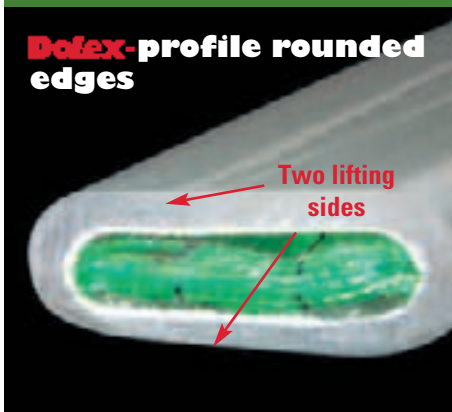
**DoLex-profile hose ribbed**



article no.	for web slings band width in mm	for round slings	
		as shown in 3 and 4	as shown in 5 and 6
5598 0504	30	–	500 kg / 1000 kg
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**



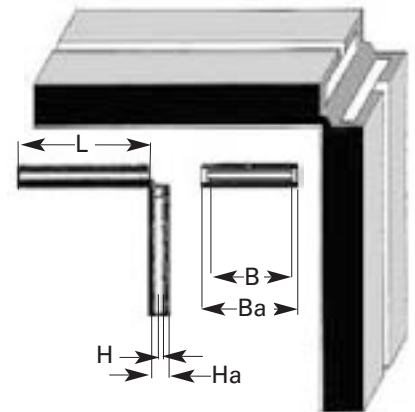
article no.	for web slings band width in mm	for round slings	
		as shown in 3 and 4	as shown in 5 and 6
5598 0614	50	–	1500 / 2000 kg
5598 0714	60	500 / 1000 kg	–
5598 1114	90	3000 kg	4000 kg
5598 1364	120	4000 kg	5000 / 6000 kg
5598 1514	150	–	12000 / 15000 kg
5598 1814	180	–8000 kg	20000 kg
5598 2424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

# Sharp edge protection Accessories

**DoLex**

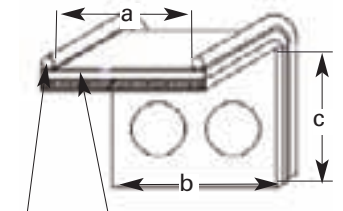
## DoLex web sling edge protection corners made of polyurethane (PU) with additional perforated plate for equal load distribution.

article no.	for band width mm		dimensions in mm			
	L		B	Ba	H	Ha
4511 0030	30	100	40	50	10	20
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 0210	210	200	220	230	15	40
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 heavy load protection corners with steel core

article no.	for band width up to mm	dimensions in mm					magnets (optional)	weight without magnets KG	weight with magnets KG
		a	b	c	d	e			
4517 0030	30	35	60	100	12	6	2	0.80	0.90
4517 0060	60	65	90	100	12	6	2	1.60	1.70
4517 0090	90	95	120	100	12	6	2	2.40	2.50
4517 0120	120	130	160	100	15	8	4	3.20	3.40
4517 0150	150	160	190	100	15	8	4	4.00	4.20
4517 0180	180	190	220	100	15	8	4	4.80	5.00
4517 0240	240	250	280	100	15	8	6	6.40	6.70
4517 0300	300	310	340	100	15	8	8	8.00	8.40



ø d e: thickness of steel core

## DoLex web sling edge protector made of Polyurethane (PU)

article no. without magnet	article no. with magnet	band width up to mm
4540 0025	4541 0025	25
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



**Avoid lateral dragging when using web sling sharp edge protectors at all times!**



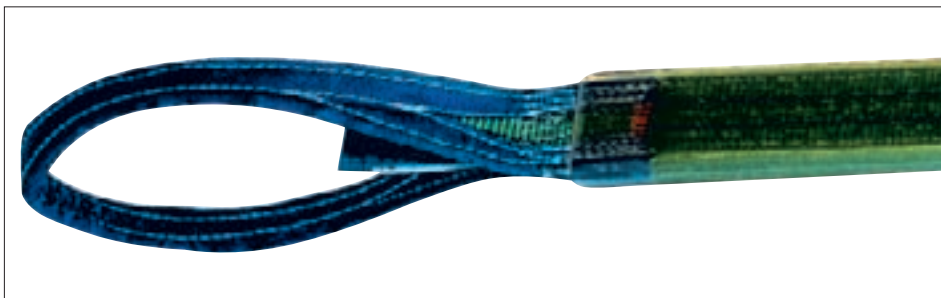
**DoLex-lifting sling with double-sided fixed coating**

## 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.

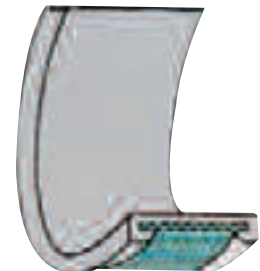
**Please note:** Permanent coatings are inappropriate for turning sharp-edged loads!











### DoLex web slings with one-sided permanent coating

	carrying load capacity in kg		dimensions of band mm
	single	double	
	1000	2000	30 x 7
	2000	4000	60 x 7
	3000	6000	90 x 7
	4000	8000	120 x 7
	5000	10000	150 x 7
	6000	12000	180 x 7
	8000	16000	240 x 7
	10000	20000	300 x 10

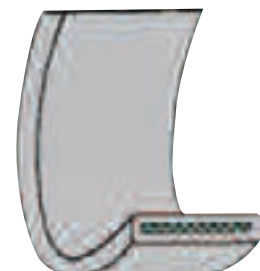
### One sided smooth



### DoLex web slings with double-sided permanent coating

	carrying load capacity in kg		dimensions of band mm
	single	double	
	1000	2000	30 x 7
	2000	4000	60 x 7
	3000	6000	90 x 7
	4000	8000	120 x 7
	5000	10000	150 x 7
	6000	12000	180 x 7
	8000	16000	240 x 7
	10000	20000	300 x 10

### Double-sided smooth



**Stirrup slings with  
Permanent coating  
Highly resistant  
against abrasions  
and cuts**

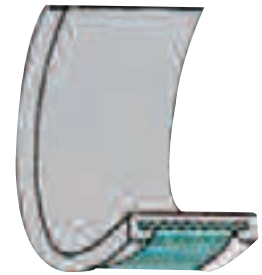
**Dolex**



**DoLex Stirrup slings DH 100 with one sided permanent coating**

	carrying load capacity in kg		band dimensions in mm
	single	double	
	1000	2000	30 x 7
	2000	4000	60 x 7
	3000	6000	90 x 7
	4000	8000	120 x 7
	5000	10000	150 x 7
	6000	12000	180 x 7
	8000	16000	240 x 7
	10000	20000	300 x 10

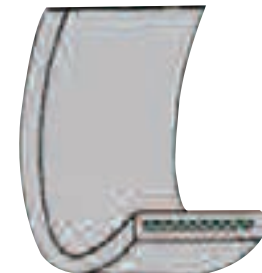
**one sided smooth**



**DoLex Stirrup slings DH 100 with double sided permanent coating**

	carrying load capacity in kg		band dimensions in mm
	single	double	
	1000	2000	30 x 7
	2000	4000	60 x 7
	3000	6000	90 x 7
	4000	8000	120 x 7
	5000	10000	150 x 7
	6000	12000	180 x 7
	8000	16000	240 x 7
	10000	20000	300 x 10

**double sided smooth**

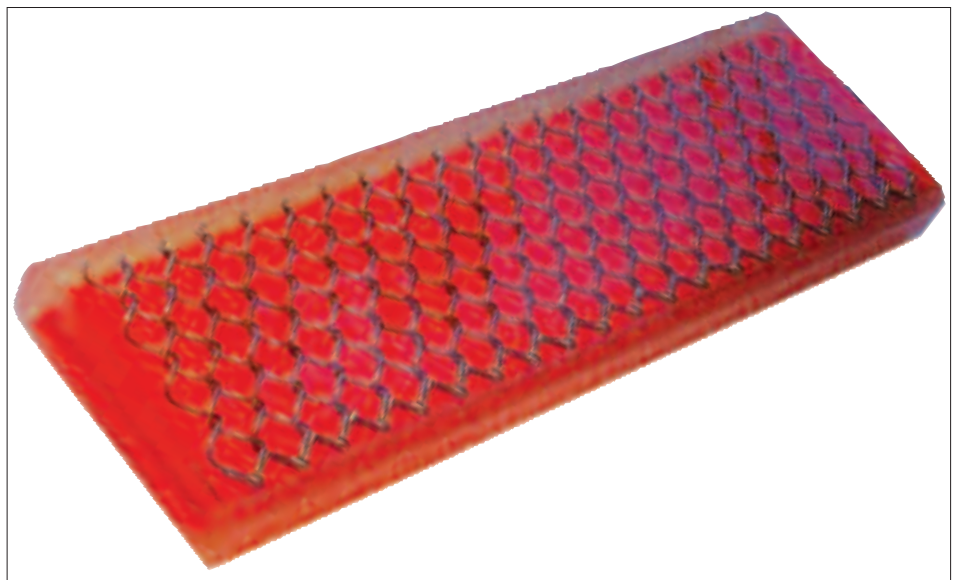


**Additional cut protection metal core for DOLex hoses and permanent coatings**

	for bandwidth mm	additional price for one sided metal core per metre EUR
	30	13.40
	60	15.50
	90	24.70
	120	27.80
	150	31.90
	180	34.00
	240	40.20
	300	46.30



**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!**





Special slings with permanent coating highly resistant against abrasion and cuts

**DoLex**

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

	carrying load capacity in kg		band dimensions in mm
	single	double	
	1000	2000	30 x 7
	2000	4000	60 x 7
	3000	6000	90 x 7
	4000	8000	120 x 7
	5000	10000	150 x 7
	6000	12000	180 x 7
	8000	16000	240 x 7
	10000	20000	300 x 10

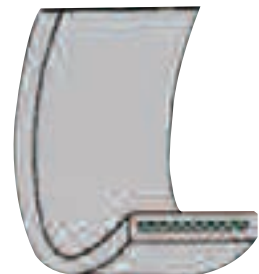
**one sided smooth**



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

	carrying load capacity in kg		band dimensions in mm
	single	double	
	1000	2000	30 x 7
	2000	4000	60 x 7
	3000	6000	90 x 7
	4000	8000	120 x 7
	5000	10000	150 x 7
	6000	12000	180 x 7
	8000	16000	240 x 7
	10000	20000	300 x 10

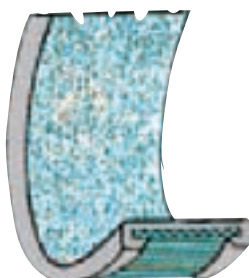
**double sided smooth**



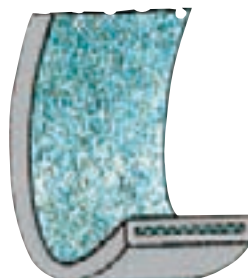
**Other DoLex varieties of permanent coatings are available on request.**

**Sample order:**

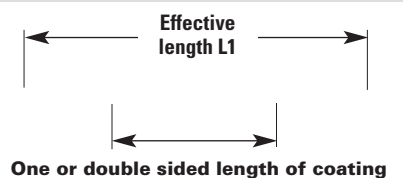
You would like to order:  
1 piece DuLex web sling type A with eyes on both ends, carrying load capacity 3 tons, 6 metres of effective length L1, with 3 metres of double sided permanent coating.  
Your order will look like this:  
1 piece art. no. 0568 9782 effective length L1 6m with 3 m permanent coating.



**One sided non-slip granular coating**

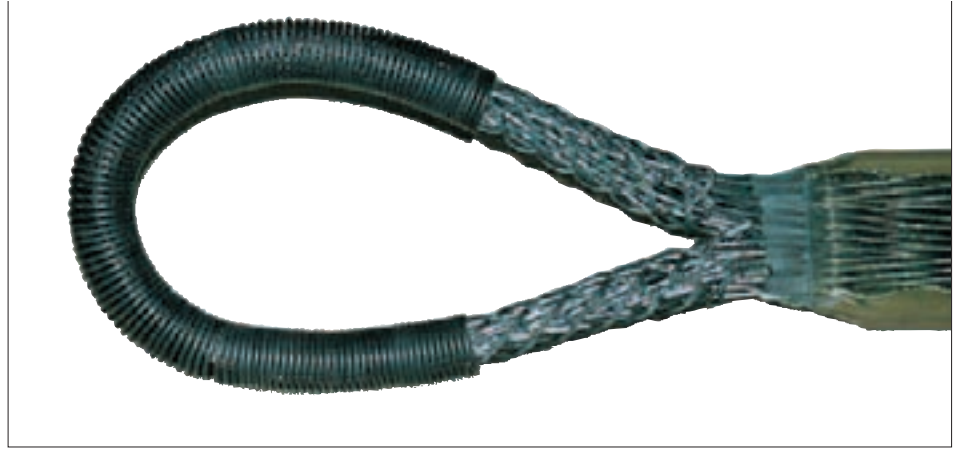


**Double sided coating, one side non-slip granular coating**



# 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:**

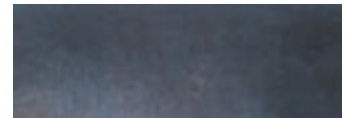
- With spiral spring thimbles on both ends
- With crane hooks on both ends, made of high-strength steel with tube thimbles keeping the stirrups movable and abrasion free
- Slip-through stirrup combination

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

**Wire mesh slings are available in these variants:**



**Galvanized**



**Vulcanized**



**Dolex coated**

## Wire mesh slings

carrying load capacity direct	carrying load capacity double	surface	dimensions width X thickness mm	  		
				spiral spring thimbles article no.	2 crane hooks article no.	slip through stirrup article no.
500	1000	galvanized	40 x 6	0501 1004	0501 0004	0521 0004
		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	0501 2005	0521 2005
		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	0501 3005	0521 3005
		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	0501 4005	0521 4005
		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	0501 5005	0521 5005
		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	0501 6005	0521 6005
		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	0501 7005	0521 7005
		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	0501 8005	0521 8005
		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	0501 9005	0521 9005
		vulcanized	230 x 35	0503 8005	0503 8006	0523 8006
		PU-coated	230 x 35	0504 9004	0504 9005	0524 9005



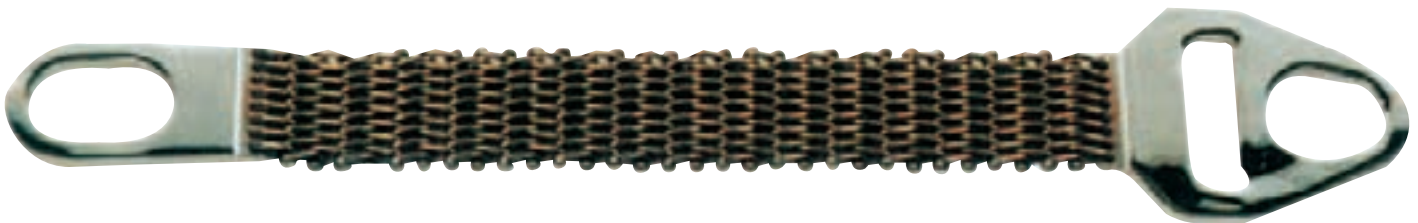
## Web slings made of wire mesh DoPlus Eye slings

**Dolex**

### Web slings made of wire mesh

article no.	width in mm	carrying load capacity		weight 1 metre including fittings in kg	weight additional metre in kg
		single	double		
0503 0750	50	750	1500	2.50	1.85
0503 0760	75	1165	2330	3.95	2.80
0503 1270	100	1500	3000	4.95	3.70
0503 1500	150	2250	4500	13.20	5.75
0503 2030	200	3000	6000	17.50	7.60
0503 2500	250	3750	7500	31.90	9.50
0503 3050	300	4500	9000	39.05	11.35

The wide bearing area clings close to the load and helps to avoid load damage. The flexible mesh has low elongation and high inherent stability, which is especially suitable for angular loads and rough surfaces.



### 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.

article no.	carrying load capacity		band width X thickness in mm	length of eye in mm	min. length of band
	single	double			
0565 0302	1000	2000	30 x 9	200	850
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.

# Protective hoses and abrasion protection for web slings and roundslings

**Dolex**

## What is abrasion protection?

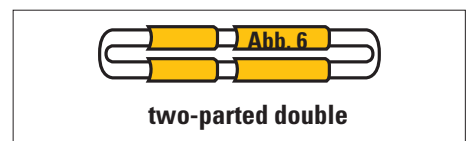
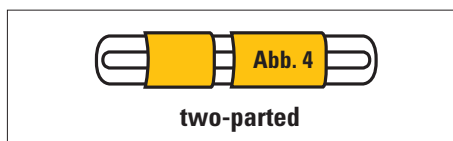
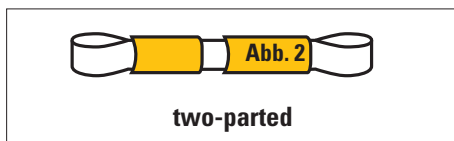
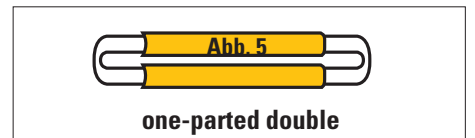
Abrasion protection is any additional equipment for textile products that increases abrasion resistance and extends the service period.

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



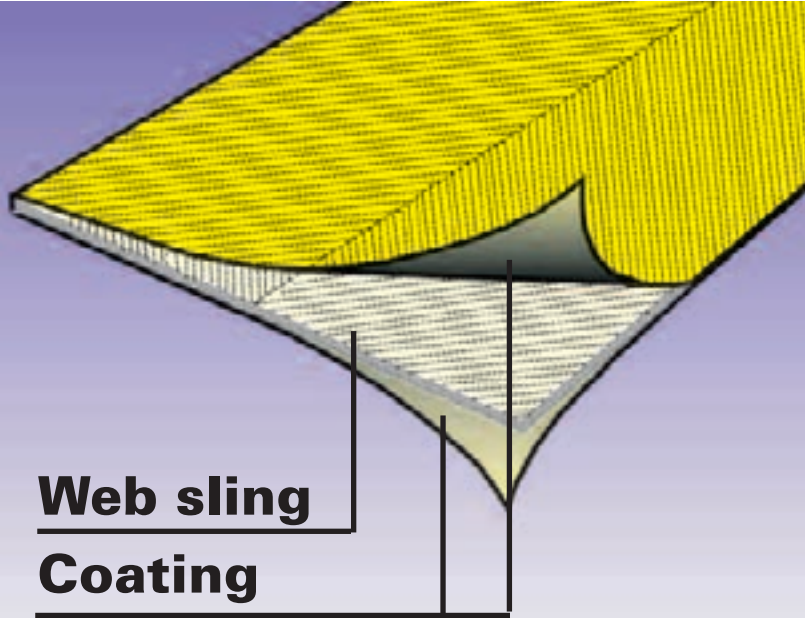
article - no.	for web slings up to band width pic. 1 + 2		for use with round slings	
		pic. 3 + 4	pic. 5 + 6	
5500 0040	30mm	–	500 / 1000 kg	–
5500 0060	50mm	–	1500 / 2000 kg	–
5500 0070	–	500 / 1000 kg	–	–
5500 0080	60-75mm	1500 / 2000 kg	3000 kg	–
5500 0100	90mm	3000 kg	4000 kg	–
5500 0120	–	4000 kg	5000 / 6000 kg	–
5500 0150	–	5000 / 6000 kg	8000 / 10000 kg	–
5500 0160	120-150mm	–	12000 / 15000 kg	–
5500 0180	180mm	8000 kg	20000 kg	–
5500 0200	200mm	10000 / 12000 kg	25000 kg	–
5500 0240	240mm	15000 kg	–	–
5500 0300	300mm	20000 / 25000 kg	–	–

### PU protective hoses



article - no.	for web slings up to band width pic. 1 + 2		for use with round slings	
		pic. 3 + 4	pic. 5 + 6	
5500 2040	30mm	–	–	–
5500 2050	–	–	500 / 1000 kg	–
5500 2065	50-60mm	–	1500 / 2000 kg	–
5500 2070	–	600 / 1000 kg	–	–
5500 2080	65-75mm	1500 / 2000kg	3000 kg	–
5500 2100	90mm	3000 kg	4000 kg	–
5500 2120	120mm	4000 kg	5000 / 6000 kg	–
5500 2150	–	–	8000 / 10000 kg	–
5500 2160	140-150mm	5000 / 6000 kg	12000 / 15000 kg	–
5500 2180	160mm	8000 kg	20000 kg	–
5500 2200	–	10000 / 12000 kg	25000 kg	–
5500 2250	240mm	15000 kg	–	–
5500 2300	300mm	20000 / 25000 kg	–	–





**Eye sling with abrasion protection double layer**  
**Variant 1: strong**  
**Variant 2: medium**  
**DoPlus**  
**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:**

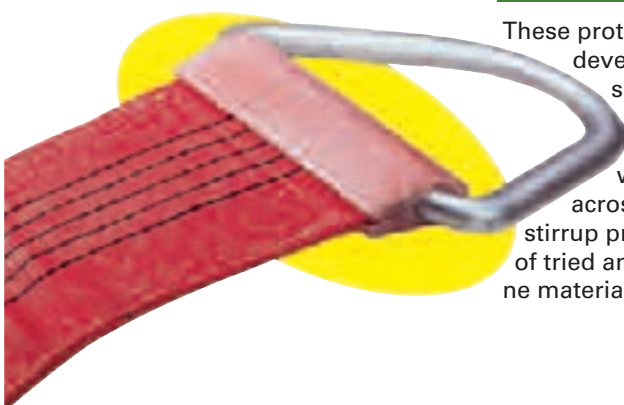
- Two variants for optimum use
- Integrated abrasion protection for longer service periods, even in rough use
- Highly abrasion-resistant, yet flexible and more durable than standard web slings

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

**DoRobust eye slings**

article no. medium	article no. strong	carrying load capacity in kg		band width X thickness mm	eye length mm	eye width mm	min. length of band mm
		single	double				
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
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
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.

article no.	for band - width up to mm
4513 0050	50
4513 0060	60
4513 0075	75
4513 0090	90/100
4513 0120	120
4513 0150	150

**Other dimensions available on request!**

# Web sling suspensions made of webbing (PES) with safety snap hooks DIN 7541 1 and 2 legs

**DoColor**

**DoColor** web sling suspensions combine an easy-to-handle class 5/8 hoisting gear (suspension link and suspension set class 8, eye hook class 5) 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.

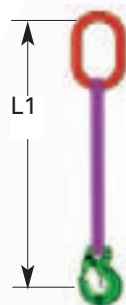
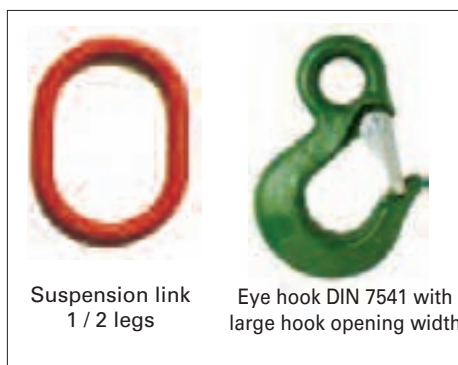
### Your advantages:

- easy-to-handle combination of load protection webbing and class 5/8 fittings
- large hook opening widths
- fittings are permanently sewn to the webbing but are re-usable after inspection

Roundsling suspensions see p. 60-61

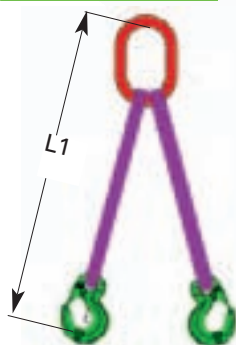
## DoColor web sling suspensions 1 leg

article no.	carrying load capacity in kg	band width X thickness in mm	hook opening width in mm
0515 1001	500	30 x 3.5	18.0
0515 2001	1000	30 x 7.0	25.0
0515 4001	2000	60 x 7.0	35.5
0515 5001	3000	90 x 7.0	45.0



## DoColor web sling suspensions 2 legs

article no.	carrying load capacity up to an angle of 45° β in kg	band width X thickness in mm	hook opening width in mm
0515 1002	700	30 x 3.5	18.0
0515 2002	1400	30 x 7.0	25.0
0515 4002	2800	60 x 7.0	35.5
0515 5002	4200	90 x 7.0	45.0



... System A

Web sling suspensions made of webbing (PES) 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.

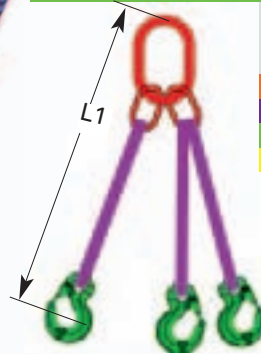


Suspension set 3 / 4 legs



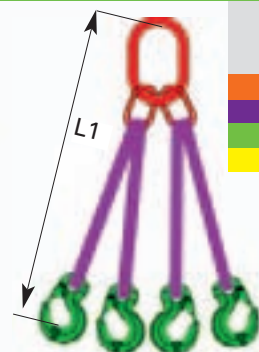
Eye hook DIN 7541 with large hook opening width

**DoColor web sling suspensions 3 legs**



article no.	carrying load capacity up to an angle of 45° β in kg	band width X thickness in mm	hook opening width in mm
0515 1003	1050	30 x 3.5	18.0
0515 2003	2100	30 x 7.0	25.0
0515 4003	4200	60 x 7.0	35.5
0515 5003	6300	90 x 7.0	45.0

**DoColor web sling suspensions 4 legs**



article no.	carrying load capacity up to an angle of 45° β in kg	band width X thickness in mm	hook opening width in mm
0515 1004	1050	30 x 3.5	18.0
0515 2004	2100	30 x 7.0	25.0
0515 4004	4200	60 x 7.0	35.5
0515 5004	6300	90 x 7.0	45.0

# System suspensions made of webbing 1 and 2 legs with coupling element

## DoLeicht H

### 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 carrying load capacity



**DoLeicht H system B with KBR hooks**

**DoLeicht system** suspensions combine textile webbing with class 8 connecting elements.

DoLeicht is available in two variants:

**System A** for 1-4 leg suspensions for a carrying load capacity up to 16.800 kg with spring-actuated eye hooks (see p. 66-67)

**System B** for two-leg suspensions up

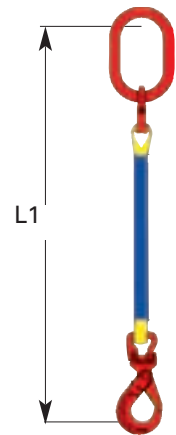
to a carrying load capacity of 2.800 kg with chocking hook KBR (see below).

**Both systems allow the individual replacement of worn legs.**

**The lightweight alternative to chain suspensions.**

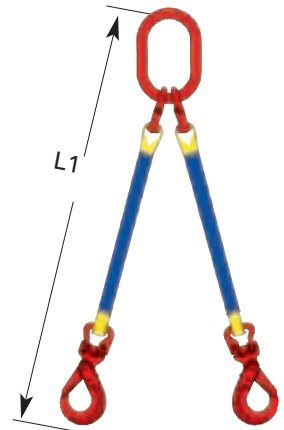
### DoLeicht H 1 leg System A With spring-actuated eye hooks YOZ

system A	carrying load capacity in kg	band width in mm
0545 1001	1000	30
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 spring-actuated eye hooks YOZ

system A	carrying load capacity in kg	band width in mm
0545 1402	1400	30
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



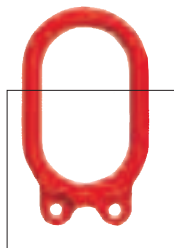
### DoLeicht H 2 legs System B With KBR hooks up to 2000 kg per leg

system A	carrying load capacity in kg	band width in mm
0546 1402	1400	30
0546 2102	2100	65
0546 2802	2800	60

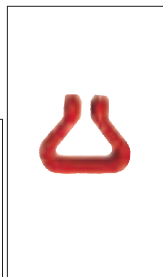
### Components System B

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

suspension link DA 2S



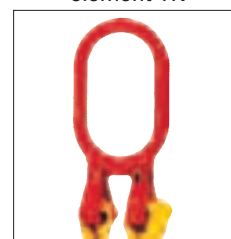
coupler element TK



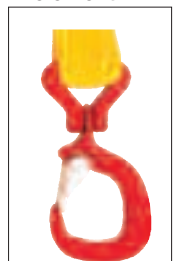
KBR hook



mounted suspension link DA 2 with coupler element TK



mounted hook with coupler element TK





## System suspen- sions made of web- bing 1 and 2 legs with coupling element

**DoLeicht H**

### Sample order:

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

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

### Components System A For 1 – 4 legs

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

suspension link  
for 1 -2 leg  
suspensions



suspension set  
for 3-4 leg  
suspensions



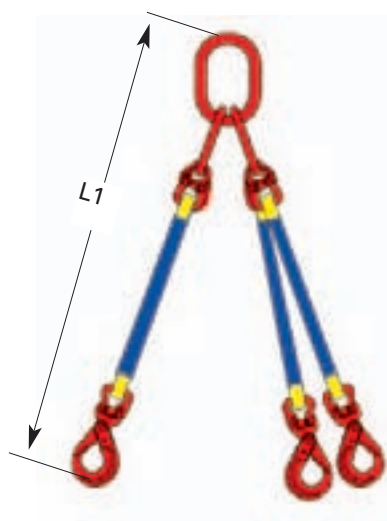
coupling  
element  
YKKD



self-locking  
eye hook  
YOZ

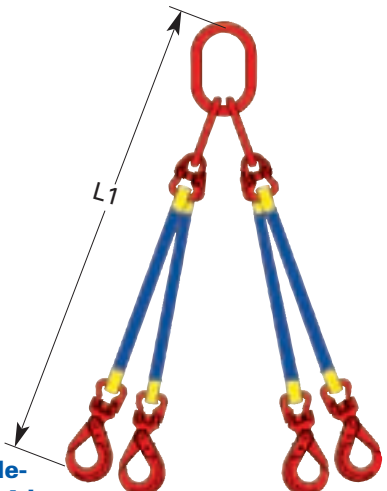


### DoLeicht H 3 legs System A



system A article no.	carrying load capacity in kg	band width in mm
0545 2103	2100	30
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 4 legs System A



system A article no.	carrying load capacity in kg	band width in mm
0545 2104	2100	30
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 order-  
ing! Carrying load capacities for 2-4 legs  
refer to maximum angle  $\beta$  of 45°.

# Roundsling suspensions with high tensile components 1 and 2 legs

**DoLeicht R**

Our roundsling suspensions with class 8 components are produced as standard with eye hooks containing stop stirrup (YOS). On request (and for an extra charge) we also deliver spring actuated eye hooks (YOZ). In this case the last figure of the article number in your order should be "1" e.g. 0544 1011

## Your advantages:

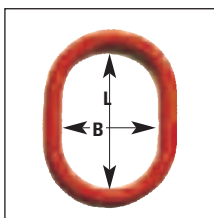
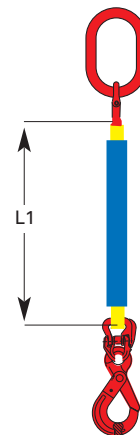
- useful combination of load-saving roundslings and high strength fittings
- protects the surface of the load
- legs of roundsling suspensions are coated with PVC abrasion protection
- lighter than chain or rope suspensions



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

	with hook YOS	carrying-capacity	suspension link (L x B) dimensions in mm	width of hook opening YOS in mm	width of hook opening YOZ in mm
article no.		in kg			
0544 1001		1000	110 x 60	27	28
0544 1501		1500	110 x 60	27	36
0544 2001		2000	110 x 60	27	36
0544 3001		3000	135 x 75	34	44
0544 4001		4000	160 x 90	42	54
0544 5001		5000	160 x 90	42	54

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



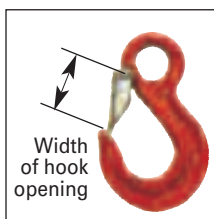
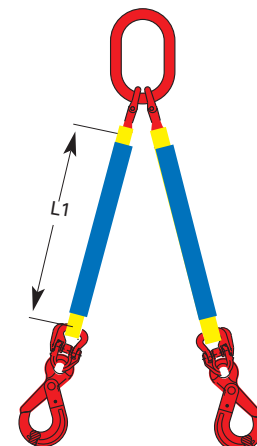
suspension link for 1 and 2 leg suspensions



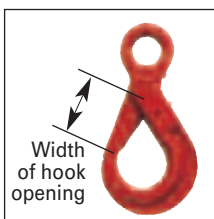
coupler element YKKD with extra large surface area

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

	with hook YOS	carrying-capacity up to $\beta$ 45° in kg	suspension link (L x B) dimensions in mm	width of hook opening YOS in mm
article no.				
0544 1402		1400	110 x 60	27
0544 2102		2100	110 x 60	27
0544 2802		2800	135 x 75	27
0544 4202		4200	160 x 90	34
0544 5602		5600	180 x 100	42
0544 7002		7000	180 x 100	42



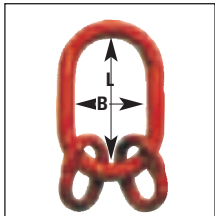
eye hook with latch YOS



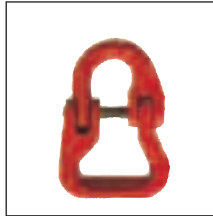
spring actuated eye hook YOZ

# Roundsling suspensions with high tensile components 3 and 4 legs

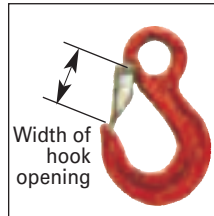
**DoLeicht R**



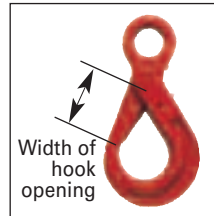
suspension set for 3-4 leg suspensions



coupler element YKKD



eye hook with latch YOS

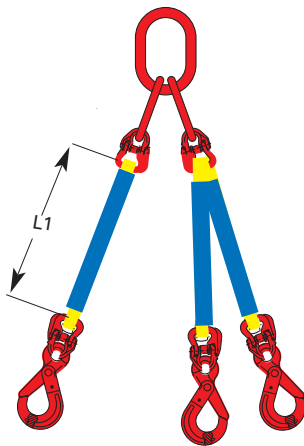


self-locking eye hook YOZ



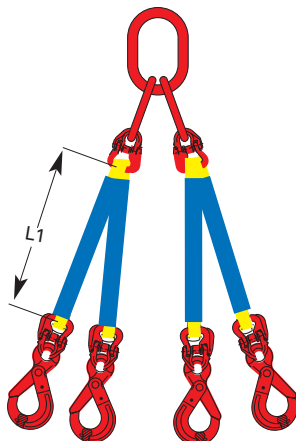
When dimensioning the lifting device please pay attention to the loss of carrying capacity caused by the inclination angle. Note that the inclination angle must never exceed 60°.

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



with hook YOS	carrying-capacity up to $\beta$ 45° in kg	suspension link (L x B) dimensions in mm	width of hook opening YOS in mm
0544 2103	2100	135 x 75	27
0544 3153	3150	135 x 75	27
0544 4203	4200	160 x 90	27
0544 6303	6300	180 x 100	34
0544 8403	8400	200 x 110	42
0544 0503	10500	200 x 110	42

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



with hook YOS	carrying-capacity up to $\beta$ 45° in kg	suspension link (L x B) dimensions in mm	width of hook opening YOS in mm
0544 2104	2100	135 x 75	27
0544 3154	3150	135 x 75	27
0544 4204	4200	160 x 90	27
0544 6304	6300	180 x 100	34
0544 8404	8400	200 x 110	42
0544 0504	10500	200 x 110	42

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

**DoKehr**



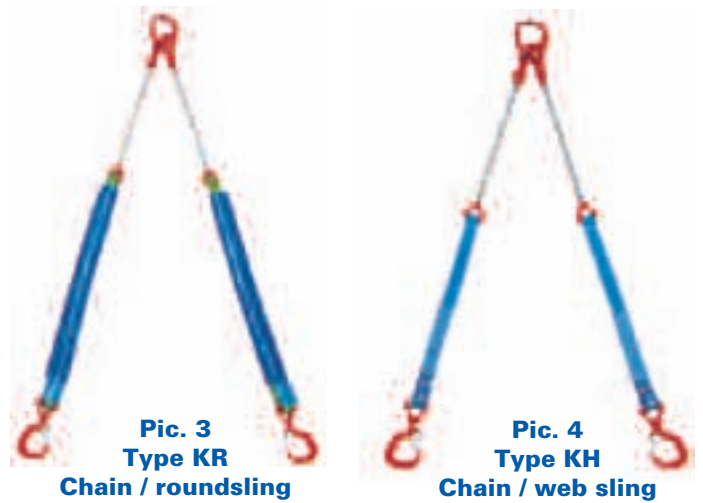
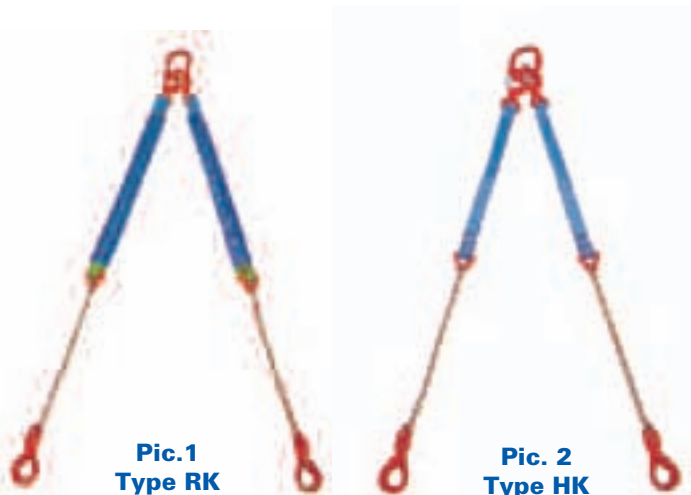
## Your advantages:

- 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.



**Pic. 1  
Type RK  
Roundsling / chain**

**Pic. 2  
Type HK  
web sling / chain**

**Pic. 3  
Type KR  
Chain / roundsling**

**Pic. 4  
Type KH  
Chain / web sling**

These variants are available for DoKehr:



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

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

Choker hook KBR for web slings  
Carrying capacity 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.



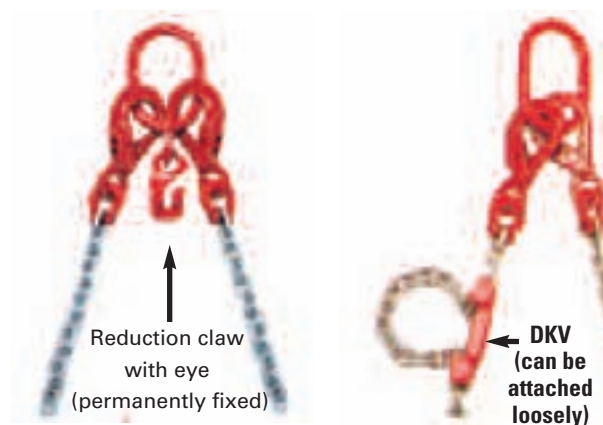
### Dokehr reverse suspension gear 2 legs type RK / KR + HK / KH

article no. RK/KR with 2 spring actuated- hooks YOZ (pic. 1+3)	carrying capacity at max. 45° in kg	nominal thickness of chains in mm	carrying capacity roundsling in kg	article no. HK/KH with 2 spring actuated hooks YOZ (pic. 2+4)	width of web sling in mm
0548 1402	1400	6	1000	0547 1402	30
0548 2102	2100	7	1500	0547 2102	50
0548 2802	2800	8	2000	0547 2802	60
0548 4202	4200	10	3000	0547 4202	90
0548 5602	5600	13	4000	0547 5602	120
0548 7002	7000	13	5000	0547 7002	150

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

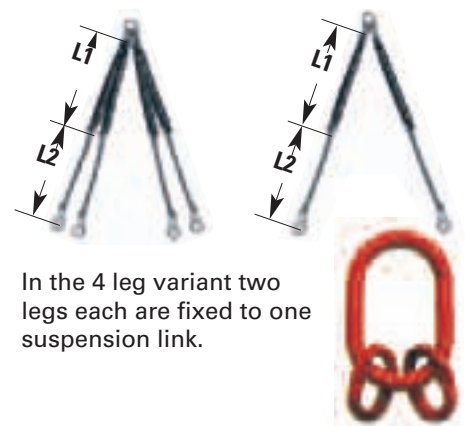
article no. RK/KR with 2 spring actuated- hooks YOZ (pic. 1+3)	carrying capacity at max. 45° in kg	nominal thickness of chains in mm	carrying capacity roundsling in kg	article no. HK/KH with 2 spring actuated hooks YOZ (pic. 2+4)	width of web sling in mm
0548 1404	2100	6	1000	0547 1404	30
0548 2104	3150	7	1500	0547 2104	50
0548 2804	4200	8	2000	0547 2804	60
0548 4204	6300	10	3000	0547 4204	90
0548 5604	8400	13	4000	0547 5604	120
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 article no. is "1" instead of "0"  
 Reduction hook DKV:  
 First figure of article. No. is "2"  
 For extra charge please contact us.

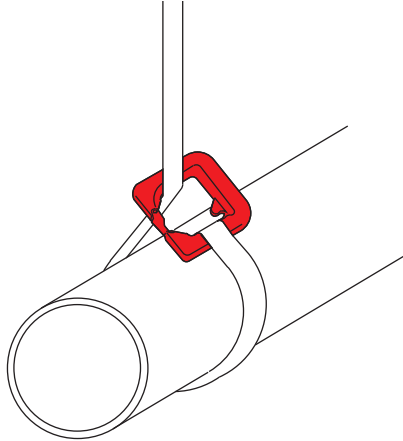
When ordering, please note down L1 (effective length of roundsling / web sling) and L2 length of chain including hook).



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

# Bundle suspensions + web sling suspensions with special vario hook

**DoVario**



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

DV 600 article no.	carrying capacity in kg	band width in mm
0516 5001	1000	30
0516 6001	1500	50
0516 7001	2000	60
0516 8001	3000	90
0516 9001	5000	150

**DV 600**



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

DV 550 article no.	carrying capacity in kg	band width in mm
0516 5002	1400	30
0516 6002	2100	50
0516 7002	2800	60
0516 8002	4200	90
0516 9002	7000	150

**DV 550**



## DoVario bundle suspension gear 2 layer with HSH hook, one leg

DV 500 article no.	carrying capacity in kg	band width in mm
0516 5011	1000	30
0516 6011	1500	50
0516 7011	2000	60
0516 8011	3000	90
0516 9011	5000	150

**DV 500**



### 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

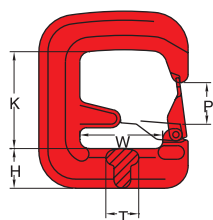




# Bundle suspensions + web sling suspensions with special vario hook

**DoColor**

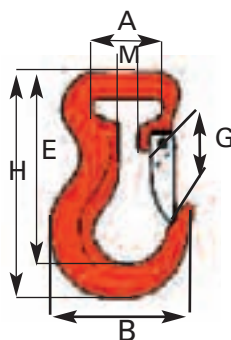
## Lifting choker hook HSH for "choker" type lifting connectable with web slings and roundslings



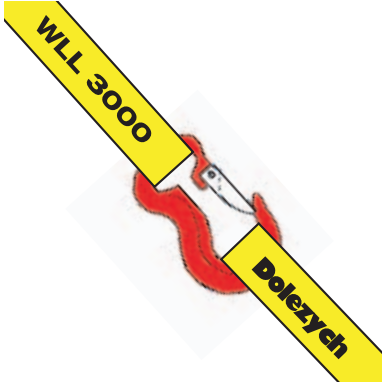
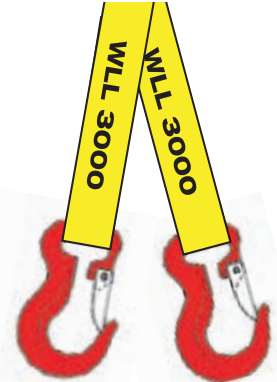
article no	carrying capacity in kg	K	dimensions in mm				weight in kg
			P	W	T	H	
0982 0610	1	79	28	45	22	26	0.7
0982 0620	2	87	34	71	25	35	1.7
0982 0630	3	96	37	104	29	38	2.4
0982 0650	5	154	40	185	40	50	7.2



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



article no	carrying capacity in kg	K	dimensions in mm				weight in kg	
			P	W	T	H		
5900 1306	1.00	24	35	84	73	116	8	0.4
5900 1308	2.00	28	40	96	86	136	10	0.6
5900 1310	3.00	33	47	117	108	167	12	1.4

**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 carrying capacity. 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 lifting choker hook SHK and HKH

**DoColor**

## 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 spring-actuated. 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 gear hook
- Hook is sewn captive to the web sling

## DoColor construction suspensions 2 legs with vario hooks SHK and HKH

article no.	with hook type / carrying capacity t	bans dimensions in mm
0519 9002	HKH / 2	60 x 7
0519 9003	SHK / 3	90 x 7

carrying capacity in kg at inclination angle $\beta$	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

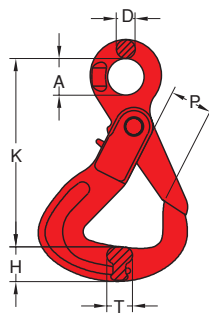


# Construction suspension 2 legs with lifting choker hook SHK and HKH

**DoColor**

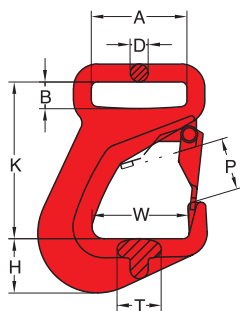


## Lifting choker hook SHK self locking for use in suspensions and "choker" type lifting. 3 t Carrying capacity



article no.	carrying capacity		dimensions in mm					weight kg
	int	K	P	A	D	T	H	
0911 8011	3.15	170	38	32	13	32	42	2.4

## Lifting choker hook HKH for use in suspensions and "choker" type lifting. 2 t Carrying capacity



article no.	carrying capacity			dimensions in mm					weight kg
	int	K	P	A	D	T	H		
0982 0720	140	44	24	81	14	80	40	44	2.0

Hook type SHK

Hook type HKH



# Bundle strap Web slings, retractable

**DoFlach**



- Reusable! No disc arding 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:

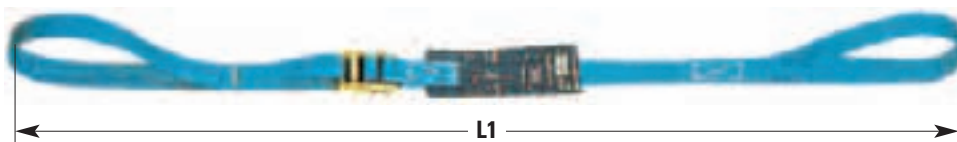
- Easy and danger-free bundling
- Can be tensioned manually
- With special ratchet tensioner, higher traction can be achieved
- Bundles are stackable without damages (scratches or imprints)

### DoFlach bundle strap

article no.	band width mm	authorized traction daN
1625 0601	25	600
1625 0900	25	900
1625 1200	25	1200
1625 2000	50	2000

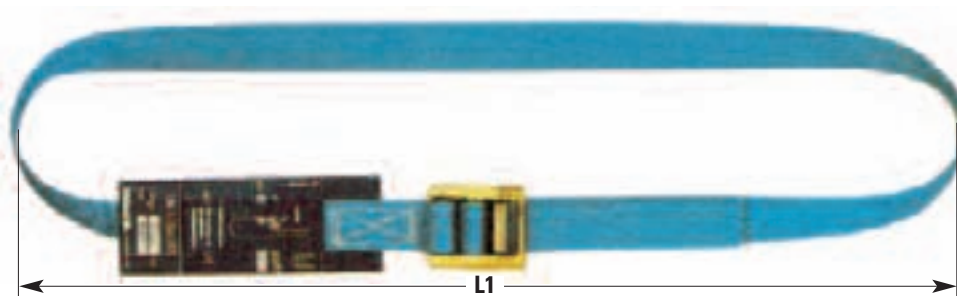
### DoFlach eye slings

article no.	carrying capacity		band width X thickness in mm	length of eye inmm
	single	double		
0530 0902	125	250	25 x 2	150
0530 0905	250	500	50 x 3	200



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

article no.	carrying capacity		band width X thickness in mm
	single	double	
0541 0902	250	500	25 x 2
0541 0905	500	1.000	50 x 3



### 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.



## 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
- Carrying capacity 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.

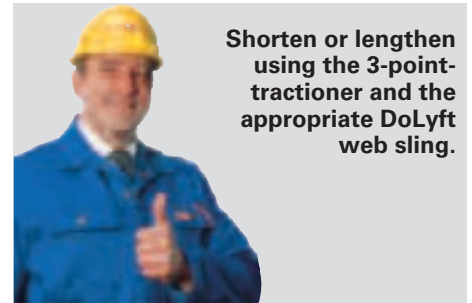
The dimensions of the web sling can be measured by the size of the transported goods (lifting type "basket"). The economic advantage lays in the reduction of the construction period.

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



### DoLyft head

article no.	carrying capacity kg
4510 0001	see chart below

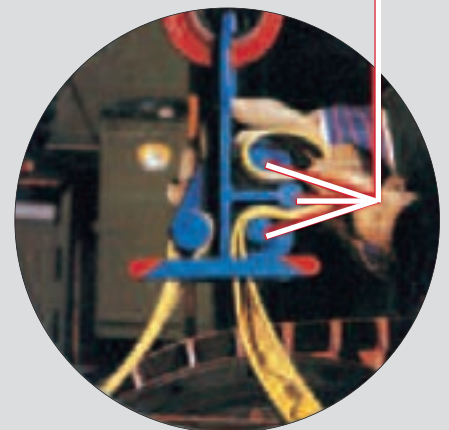
### DoLyft sling

article no.	carrying capacity kg
0535 6502	3.000

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



# Roundslings with single cover

## DoForce 1

### Variants:

#### DoForce 1 roundslings

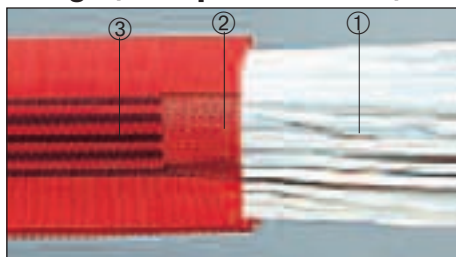
With continuous imprint of carrying capacity and barcode.

#### DoForce 2 double cover roundslings

Variants as DoForce 1 with double protection cover.

- ① Supporting element is a high-end PES polyester fibre webbing roundsling endlessly folded. The carrying capacity grows according to the number of these fibres.
- ② Protective cover made of seamless woven impregnated polyester webbing for endlessly folded fibre webbing.
- ③ Long-lasting marking on the protective cover: One woven-in bar for each ton of carrying capacity and imprinted carrying capacity on the other side.

### Design (example DoForce 2)

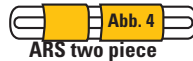


### DoForce Roundslings with single cover

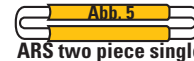
article no.	carrying capacity in kg single
0514 0512	1000
0514 1012	1500
0514 1512	2000
0514 3012	3000
0514 4512	4000
0514 5512	5000
0514 6012	6000
0514 7512	8000



ARS one piece



ARS two piece



ARS two piece single



ARS two piece double

### PVC-protective hoses



article - no.	protective hoses according to	
	pic. 3+4	pic.5+6
	for roundslings up to WLL in kg	
5500 0040	-	500/1000
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 0180	8000	20000
5500 0200	10000/12000	25000
5500 0240	15000	-
5500 0300	20000/25000	-

### PU-Tex-protective hoses



article - no.	protective hoses according to	
	pic. 3+4	pic.5+6
	for roundslings up to WLL in kg	
5500 2050	-	500/1000
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	-
5500 2300	20000/25000	-

**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 44-55.





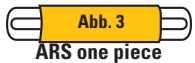
## Roundslings with double cover

**DoForce 2**



### DoForce 2 PES roundslings with double cover

article no.	carrying capacity in kg single
0514 0522	1000
0514 1022	1500
0514 2522	2000
0514 3022	3000
0514 4522	4000
0514 5522	5000
0514 6022	6000
0514 7522	8000



ARS one piece



ARS two piece



ARS two piece single



ARS two piece double

### PVC-protective hoses



article - no.	protective hoses according to	
	pic. 3+4	pic.5+6
for roundslings up to WLL in kg		
5500 0040	-	500/1000
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 0180	8000	20000
5500 0200	10000/12000	25000
5500 0240	15000	-
5500 0300	20000/25000	-

### PU-Tex-protective hoses



article - no.	protective hoses according to	
	pic. 3+4	pic.5+6
for roundslings up to WLL in kg		
5500 2050	-	500/1000
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	-
5500 2300	20000/25000	-

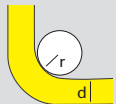
# Roundslings with woven-in WLL marking

**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 carrying capacity 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 carrying capacity 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 44-55.



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

## DoWeb PES Roundslings With woven-in WLL marking

article no..	carrying capacity kg single
0514 0532	1000
0514 1032	1500
0514 1532	2000
0514 3032	3000
0514 4532	4000
0514 5532	5000
0514 6032	6000
0514 7532	8000



# Roundslings with woven-in WLL marking

**DoWeb**



## PVC-protective hoses



article no.	protective hoses according to	
	pic. 3+4	pic. 5+6
for roundslings up to WLL in kg		
5500 0040	-	500/1000
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 0180	8000	20000
5500 0200	10000/12000	25000
5500 0240	15000	-
5500 0300	20000/25000	-

## PU-Tex-protective hoses



article no.	protective hoses according to	
	pic. 3+4	pic. 5+6
for roundslings up to WLL in kg		
5500 2050	-	500/1000
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	-
5500 2300	20000/25000	-

## 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 carrying capacity), a **woven-in carrying capacity 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

article no.	carrying capacity single kg
0514 0552	1000
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



Top rate  
roundslings with  
woven-in  
WLL marking

**DoPremium**



**PVC-protective hoses**



article no.	protective hoses according to	
	pic. 3+4	pic.5+6
	for roundslings up to WLL in kg	
5500 0040	-	500/1000
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 0180	8000	20000
5500 0200	10000/12000	25000
5500 0240	15000	-
5500 0300	20000/25000	-

**PU-Tex-protective hoses**



article no.	protective hoses according to	
	pic. 3+4	pic.5+6
	for roundslings up to WLL in kg	
5500 2050	-	500/1000
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	-
5500 2300	20000/25000	-

## 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



### DoMega PES heavy load roundslings

article no.	carrying capacity in kg single	min. effective length mm
0514 8012	10000	1000
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 carrying capacity!**

### DoMega PES heavy load roundslings with velcro closer

article no.	carrying capacity in kg single	min. effective length mm
8514 8052	10000	1000
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 gear

**DoMega**



**DoMega heavy load roundslings**

**Save weight  
but not carrying capacity!**

**Compare for example:**

Carrying capacity 100 t  
20 m effective length (40 m circumference)

**Own weight of lifting devices:**

**1440 kg  
endless chain,  
quality class 6**

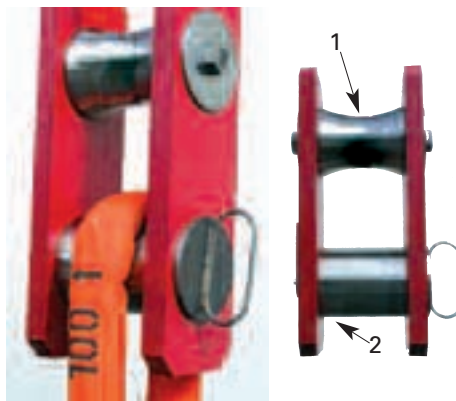
**1200 kg  
grummet  
wire rope**

**470 kg  
roundsling**



**DoSL heavy load suspension gear WLL 100 t**

article no.	carrying capacity t	weight kg
0321 8100	100	400



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

Prices for larger dimensions and higher carrying capacities on request!

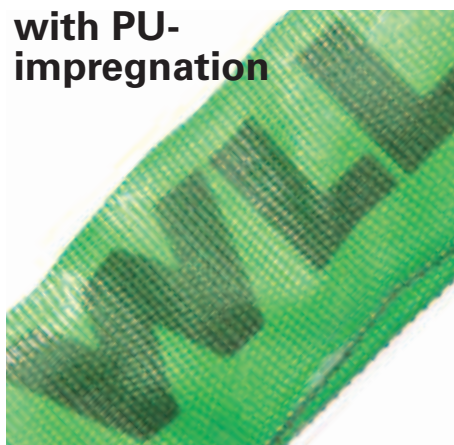
## Roundslings with DoStabil PU-impregnation

**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 carrying capacity marks and additional barcode.



### with PU-impregnation



### DoStabil PES roundslings with PU impregnation

article no.	carrying capacity in kg single
0514 0542	1000
0514 1042	1500
0514 1542	2000
0514 3042	3000
0514 4542	4000
0514 5542	5000
0514 6042	6000
0514 7542	8000



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





## Rundslings made from Polyamide/ Polypropylene

**DoProp DoLux**



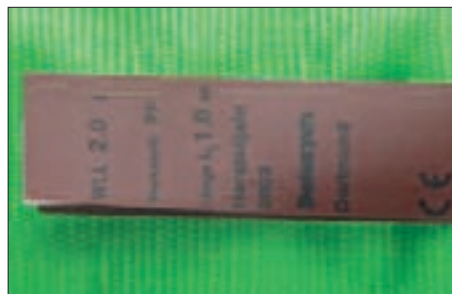
Polyamide- and polypropylene roundslings are produced on your request. Please order in time!

### 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



### 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 roundslings is lighter. PP-roundslings are more voluminous at the same carrying capacity 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)

article no.	Tcarrying capacity in kg single
0514 002*	500
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 article no. DoLux = 1, DoProp = 3

## Black roundslings for stages and events

**DoColor**



### Black roundslings for stage and event engineering

article no.	carrying capacity effective length in kg single
0514 0562	1000
0514 1562	2000
0514 3062	3000

The design of these roundslings corresponds to DoForce 1 roundslings 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 universal 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!

### 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 carrying capacity. 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 carrying capacity.

Woven web slings with optimized elongation

## Materials

Polyester  
Polypropylene  
Polyamide

undergo a drawing procedure during their production. At full carrying capacity, 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 <sup>3</sup>	1.38	1.14	0.91
elongation at carrying capacity for roundslings for woven web slings (optimized elongation)	1 - 1.5 %	3 %	2.5 - 3 %
dimensional stability (for woven equipped web slings)	3 - 5 %	5 - 7 %	4 - 6 %
abrasion resistance	very good	very good	very good
absorption of humidity at %:			
65% relative humidity of air	very good	very good	very good
100% relative humidity of air	0.2 - 0.5	3.5 - 4.5	0
melting range	0.9 - 1	6 - 9	0
temperature range for use	250 - 260°C	215 - 220°C	160 - 175°C
resistance against chemicals:	-40/+100°C	-40/+100°C	-40/+80°C
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 carrying capacity range.

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

# Forklift pin protectors

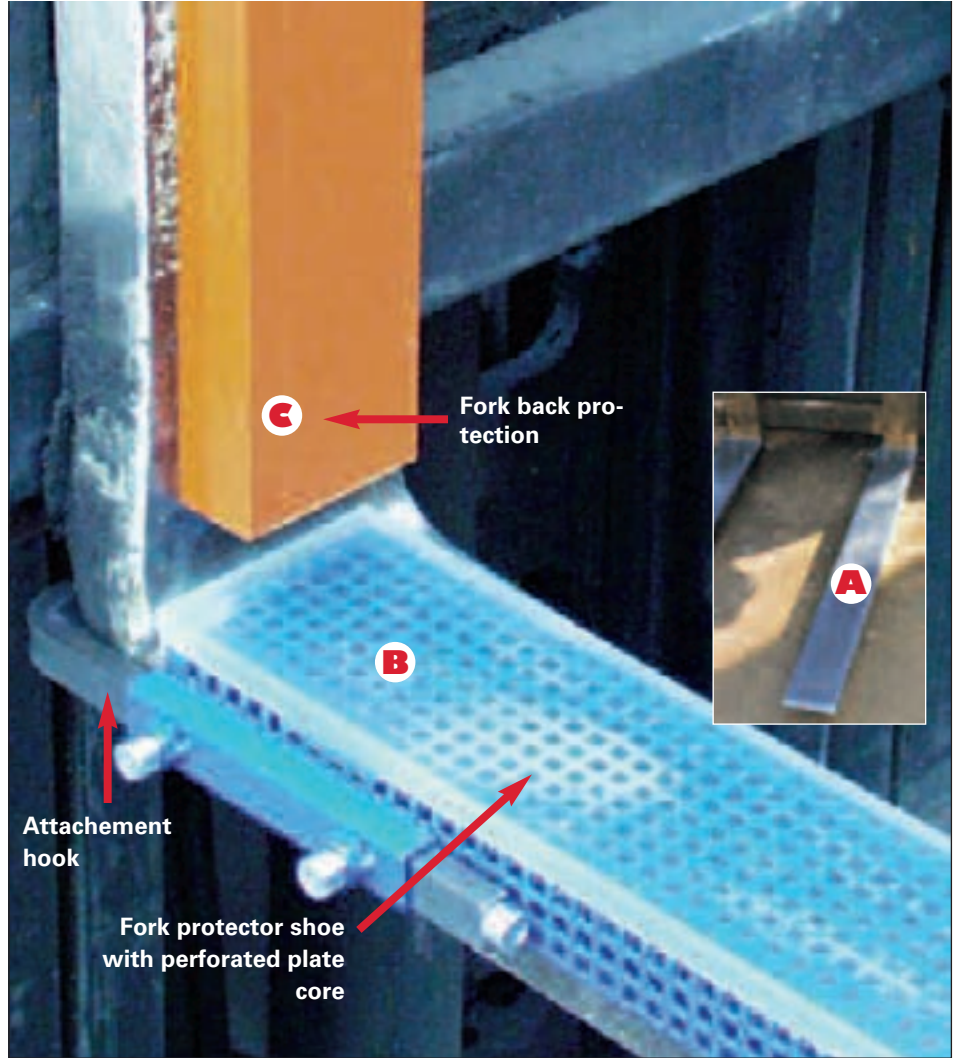
**Dolex**

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)

### Typical examples for use:

Transport of:

- cast parts
- high-grade steel
- painted or enamelled containers
- wire ropes
- all parts which have to be protected against scratches and dents during transport



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

width mm
80
90
100
110
120
130
140
150

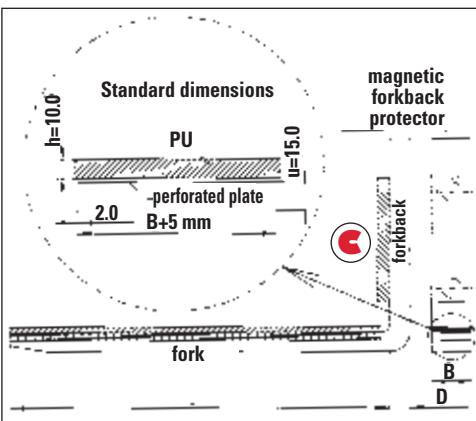
forkback protection / piece  
fastening hook / piece

### Variants

- non detachable permanent coating on upper surface 100 mm thick – the forks have to be sent to our factory (price on request)
- 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)



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



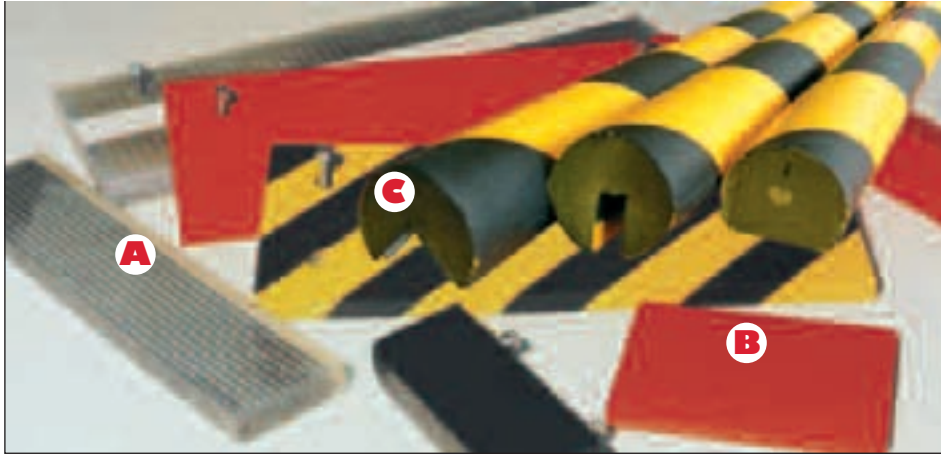
**Dolex** fork protection  
Article no. \_\_\_\_\_ quantity (piece) Please fill in!

- fork permanent coating without perforated plate core
- fork protector shoe 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 protective shoe \_\_\_\_\_

Absender: \_\_\_\_\_  
Firma/Abteilung \_\_\_\_\_  
Vorname/Name \_\_\_\_\_  
Straße/Nr. \_\_\_\_\_  
PLZ/Ort \_\_\_\_\_  
Telefon \_\_\_\_\_  
Fax \_\_\_\_\_



## impact protection

**DoLex**

### DoLex impact protection - for your safety!



A) shock absorber



B) collision protection



A) coil hook protector



A) coil hook protector

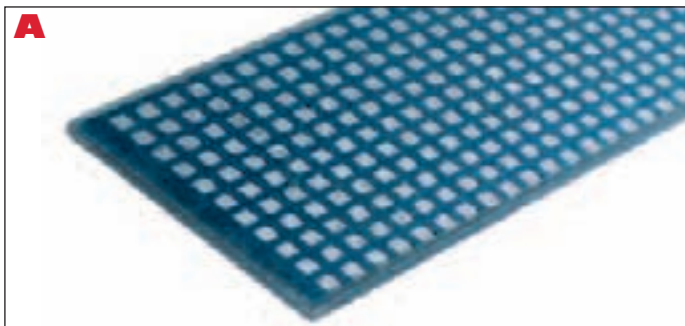


- ... highly dampening
- ... noise-reducing
- ... protection for delicate parts against collision and impact
- ... anti slip

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

### 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.

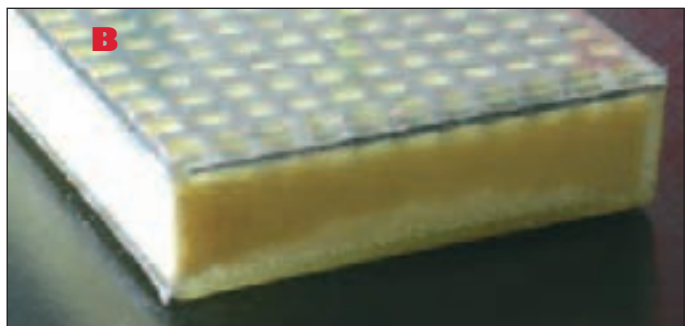


### B) Collision protection with PU- surface, elastomer foam and perforated plate core

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.



### Heavy load impact protection

width mm	article no. thickness 10 mm	article no. thickness 20 mm	article no. thickness 30 mm
50	5598 9918	5598 9923	5598 9929
100	5598 9919	5598 9924	5598 9930
150	5598 9917	5598 9925	5598 9931
200	5598 9920	5598 9926	5598 9932
250	5598 9921	5598 9927	5598 9933
300	5598 9922	5598 9928	5598 9934

Standard length 2 m, other sizes on request.

### Collision protection

article no.	length mm	width mm	thickness mm
5598 9935	200	150	10
5598 9936	500	200	20
5598 9937	600	250	30
5598 9938	430	70	30

# Hazard warning profiles

**Dolex**



- 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:

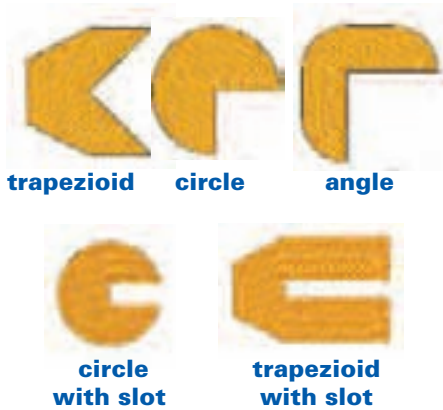
- in- and outside
- on machines, vehicles, movable equipment, on walls, main traverses and connecting passages
- in areas of production, storage and dispatch and in-house transport

### 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

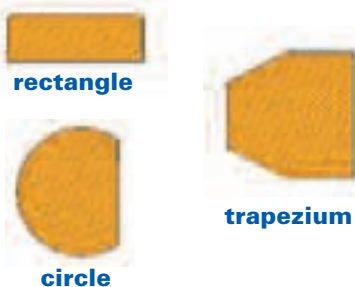


Prices on request!

## Pipe protector



## Surface protection



Prices on request!



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

Prices on request!