

Textile load securing



- On the following pages you can find a wide selection of lashing straps. In principle two performance characteristics are of importance to you, depending on the application of the lashing straps.

For classic tying down, mainly the **tension forces S_{TF} – Standard Tension Force** – are of importance to you.

If you use the lashing straps for direct/diagonal lashing, please select the lashing strap according to the required **lashing capacity LC – Lashing Capacity**.

Besides the lashing straps we also offer options, like for instance property marking by means of printing the lashing straps, as well as a number of accessories.



Lashing straps

The WIS label

Re-usable polyester lashing straps are furnished with one blue label for single-part lashing straps and with one label on each of the loose end and the fixed end for two-part lashing straps, which contain the following information:

WIS label short end

- **Lashing Capacity:**
LC value in daN
- **Standard Hand Force:** SHF 50 daN
- **Standard Tension Force:** STF value in daN
- **Warning:**
May not be used for lifting!
- **Material specification:**
PES (for lashing straps with polyester webbing)
- **Stretching of the lashing strap in % for LC value**
- **Name or symbol of the manufacturer**
- **WIS tracking code**
- **Standard specification:** EN 12195-2
- **Year of manufacture**

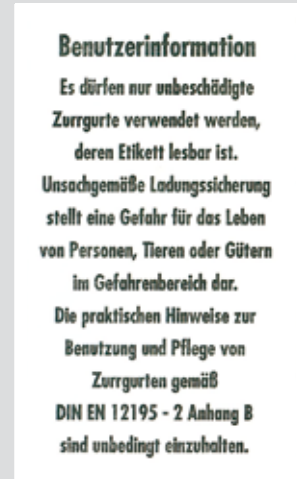
WIS label long end

- **Lashing Capacity:**
LC value in daN
- **Warning:**
May not be used for lifting!
- **Material specification:**
PES (for lashing straps with polyester webbing)
- **Stretching of the lashing strap in % for LC value**
- **Name or symbol of the manufacturer**
- **WIS tracking code**
- **Standard specification:** EN 12195-2
- **Year of manufacture**



The WIS label (example WTL 5550-006 short end 0.5 m)

User information, Additional label and User Manual



Reverse side



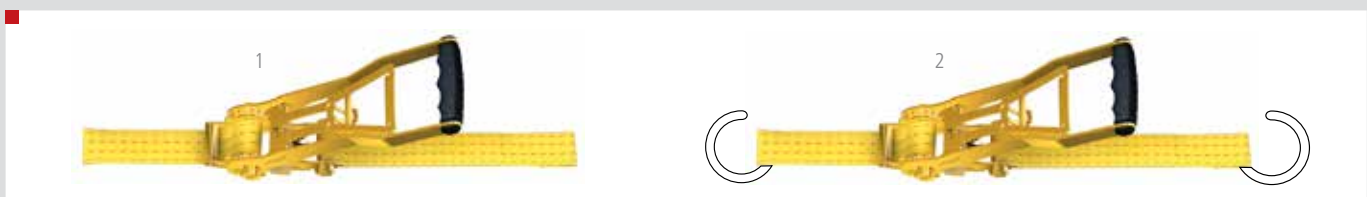
Front side

Lashing strap types

1 The single-part lashing strap consists of the strap and a ratchet as a tensioning element. It is used for bundling or strapping load items into a loading unit.

2 The two-part lashing strap consists of the fixed end and the loose end. The fixed end consists of a short, non-adjustable lashing strap to which the ratchet and a hook are fastened as

connecting element. The loose end, for instance, is an approximately 7.5 metre long lashing strap, to which a hook is fastened as connecting element.



Handling of straps

Only lashing straps which are furnished with legible labels may be used. The label must prove that the strap complies with DIN EN12195-2. No mechanical aids like rods or levers, which do not belong to the tensioning element, may be used. Lashing straps may not be knotted. Lashing straps must be protected against friction and abrasion as well as against sharp edges (see edge protectors page 62 - 64).

Lashing straps may not be used for lifting loads.



Correct handling of ratchets

1st After pulling the function slider, lift up the ratchet lever and then insert the strap.

Handling of ratchets

The strap end of the loose end is threaded in the winding shaft of the ratchet. By actuating the ratchet lever, the belt strap is wound up and thus tensioned, due to the rotation of the shaft. The lashing strap must be wound at least 1.5 times around the winding shaft so that the belt strap fits tightly. However, more than three strap layers must not be wound up, otherwise the lock slider can get stuck. The function slider must be pulled and the ratchet lever must be swung by approximately 180 degrees up to the limit stop for releasing the belt strap. The initial tension is thereby released with a jolt. Therefore the load must be checked beforehand for possible danger.



2. Pull the function slider and turn down the ratchet lever by approximately 180 degrees to release.

Checking lashing straps and load securing devices.

In terms of the VDI 2700 Guideline, all devices used for load securing must in principle be subjected to an annual test by a qualified and authorised person. As a supplementary measure in terms of DIN EN 12 195-2, testing of lashing straps made of chemical fibres is recommended before and after every use. WISTRA recommends this for all load securing devices.

Rope discard means that the use of a lashing strap must be stopped if specified signs of wear become visible.

Some criteria for rope discard of lashing straps:

- Data on the lashing strap labels is illegible
 - Cuts in the material width of more than 10% - e.g. for lashing straps with a width of 50 mm = approx. 5 mm
 - Damage through heat or chemical influences
 - Increased formation of rust, cracks and/or other deformations on the connecting elements (hooks) as well as the tensioning element (ratchet)
- Note:** The winding elements must particularly be inspected.
- A lashing strap must not only be replaced based on its year of manufacture!

Terms

Lashing devices

- Consist of the tensioning device (e.g. strap, chain, cord), the tensioning element (e.g. ratchet, winding mechanism, clamp lock) and possibly the connecting element (end-fitting, hook)

Lashing strap

- Is a lashing device consisting of the tensioning element or a lashing strap clamp and a lashing strap with or without connecting element.

Strap

- Is a woven textile strap

Tensioning element

Is a mechanical device for introducing the tension force in a lashing device.

End-fitting

- Is a device for connecting the lashing strap or the tensioning element with the lashing point or the fixture point of the load

Initial tension indicator

- Is a device indicating the initial tension in the lashing system

Single-part lashing strap

- Is a lashing device consisting of a textile strap and a tensioning element (use of freely moveable end-fittings is possible)

Two-part lashing strap

- Is a lashing device, consisting of two woven textile straps, one with a tensioning element, and both with one end-fitting

IG length - single-part lashing strap

- Measured from the end of the lashing strap up to the outer turn radius of its connection with the tensioning element

IGF length - fixed end

- Measured from the bearing point of the terminal bracket up to the outer turn radius of its connection with the tensioning element

IGL length - loose end

- Measured from the end of the strap up to the bearing point of the terminal bracket piece

Minimum breaking force BF_{min}

- The breaking force for which a lashing strap is designed

Lashing capacity LC

- The highest force for use in straight traction for which a lashing strap is designed

Functional factor

- The relation between fixed minimum breaking force BF_{min} and lashing capacity LC
 - 2 – for tensioning element and terminal bracket
 - 3 – for strap

Hand force HF

- Force on the grip of the tensioning element that produces traction in the lashing strap

Standard hand force SHF

- Prescribed hand force of 500 N = 50 daN specified on the label

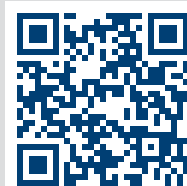
Standard tension force STF

- The remaining force after the grip of a ratchet has been let go at the prescribed hand force of 50 daN.



WISTRA Information

Many lashing straps are available with the Quick View label. Scan in the QR code and view the Quick View label.



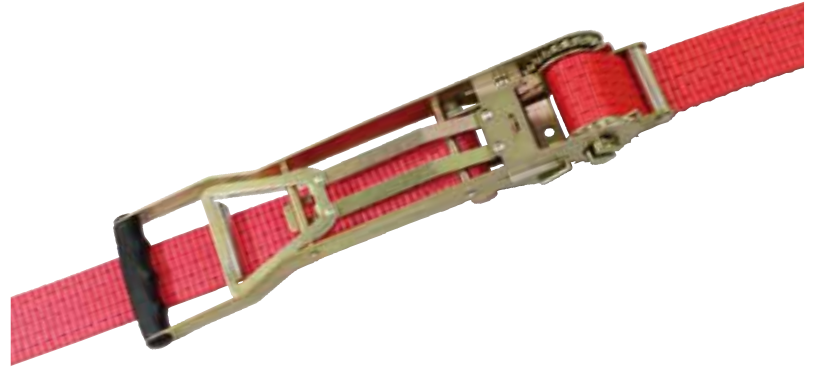
Lashing straps · Heavy duty lashing straps

WISTRA lashing straps are manufactured according to the valid standard DIN EN 12195-2:2000 Safety Part 2: "Lashing straps made of chemical fibres".

Our wide range of lashing straps offers you a large variety of versions for every application in order to tie down your transport goods safely and properly in compliance with the regulations.

Besides standard straps we also offer individually manufactured lashing straps with the required length and end-fittings of your choice.

The straps can be furnished with ratchets, over-center locks or clamp locks.



Overview of the lashing strap options

Sorted according to initial tension STF

300 daN	350 daN	500 daN	550 daN	700 daN	900 daN	1.100 daN
WTC 5300	WTQ 5350	WTQ 5500	WTQ 5550	WTN 3700	WTE 545A	WTL 555A
	WTR 5000	WTE 5500	WTL 5550	WTR 535A		
	WTR 4000	WTF 5500	WTF 5550			
	WTF 5350					

Sorted according to LC in straight tension

1.600 daN	2,000 daN	2.500 daN	5,000 daN
WTN 3700	WTR 4000	WTQ 5550	WTR 10000
		WTQ 5500	
		WTQ 5350	
		WTL 5550	
		WTE 5500	
		WTR 5000	
		WTF 5000	
		WTR 535A	
		WTE 550A	
		WTL 555A	
		WTC 5300	

WISTRA WTR 10000 pressure ratchet lashing strap

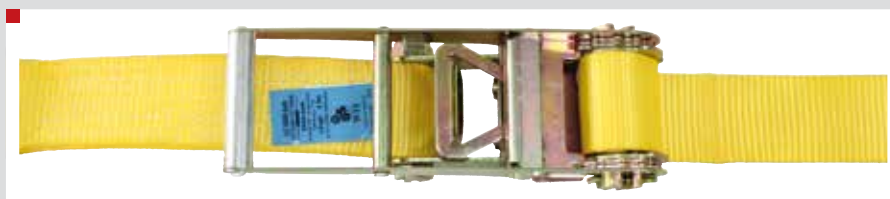
- Lashing capacity LC 5,000 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- [Tensioning element ratchet 975](#)
- Strap – durable due to PU coated webbing (PES)

End-fittings:



067

More end-fittings from Page 98.



Standard version	Short designation	Item No.
with end-fitting 067 - pointed hook		
two-part – FE 0.5 m + LE 3.5 m yellow webbing	WTR 10000-067 0.5+3.5 yellow	1750535
two-part – FE 0.5 m + LE 7.5 m yellow webbing	WTR 10000-067 0.5+7.5 yellow	1750575
two-part – FE 0.5 m + LE 9.5 m yellow webbing	WTR 10000-067 0.5+9.5 yellow	1750595
Fixed end 0.5 m yellow webbing	WTR 10000-067 FE 0.5 yellow	1750580
Loose end 9.5 m yellow webbing	WTR 10000-067 FE 9.5 yellow	1750590

WISTRA WTC 5300 pressure ratchet lashing strap

- Normal tension force S_{TF} 300 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 819 – Innovation with fastening winding shaft for quick application
- Strap 50 mm – durable due to PU coated webbing (PES)

End-fittings:

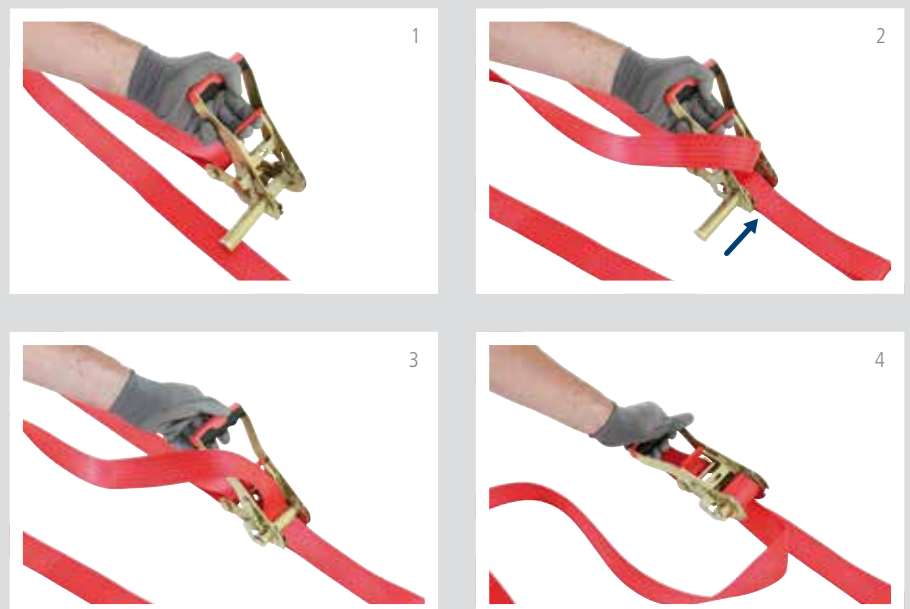


You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 98.



Standard version	Short designation	Item No.
single-part – 8,0 m webbing	WTC 5300-single-part 8,0 m red	1509558
with end-fitting 006 - pointed hook		
two-part – FE 0,4 m + LE 7,6 m red webbing	WTC 5300-006 0,4+7,6 red	1508895
two-part – FE 0,4 m + LE 8,6 m red webbing	WTC 5300-006 0,4+8,6 red	1508896
two-part – FE 0,4 m + LE 9,6 m red webbing	WTC 5300-006 0,4+9,6 red	1508897
two-part – FE 0,4 m + LE 11,6 m red webbing	WTC 5300-006 0,4+11,6 red	1508898

Application



With Quick View Label



Scan in QR code and
watch application video

WISTRA WTQ 5550 tension ratchet lashing strap

- Normal tension force S_{TF} 550 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2,500 daN in straight tension
- manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 818
- Version with additional quick view label
- Can be supplied with factory certificate / test certificate
- Stretch \leq 5%

With Quick View Label



Accessories



Edge protection



Anti-slip mat

WISTRA WTQ 555K tension ratchet lashing strap

Version with body tissue

Strap 50 mm - the special body-binding technology and modern ultra sound refining ensure a significantly higher abrasion resistance for this polyester webbing (PES), and thereby for a longer service life.

WISTRA WTQ 555W tension ratchet lashing strap

Version with water-repelling webbing

Thanks to the special coating, impacting water rolls off on the polyester fabric (PES) and guarantees optimum application characteristics even at low temperatures. The permanent impregnation also provides good protection from oil-based dirt and is resistant to textile residues like surfactants and alkali.

The fabric does not contain any detectable quantities of PFOA and PFOS.

WISTRA WTQ 555R tension ratchet lashing strap

Version with two reflective strips in the webbing

Strap 50 mm - visual emphasis as a result of the two reflective strips

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 98.

Scan in QR code
and watch webbing
comparison

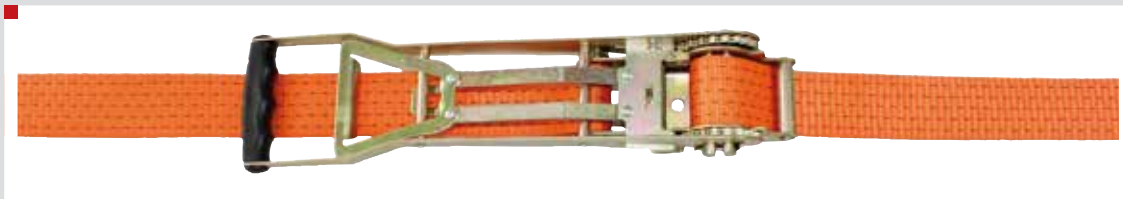


WISTRA WTQ 555K tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 555K single-part 8.0 lemon yellow QV	1501033
with end-fitting 006 - pointed hook		
two-part – FE 0.5 m + LE 7.5 m lemon yellow webbing	WTQ 555K-006 0.5+7.5 lemon yellow QV	1501034
two-part – FE 0.5 m + LE 8.5 m lemon yellow webbing	WTQ 555K-006 0.5+8.5 lemon yellow QV	1501035
two-part – FE 0.5 m + LE 9.5 m lemon yellow webbing	WTQ 555K-006 0.5+9.5 lemon yellow QV	1501036
two-part – FE 0.5 m + LE 11.5 m lemon yellow webbing	WTQ 555K-006 0.5+11.5 lemon yellow QV	1501037

WISTRA WTQ 555W tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 555W single-part 8.0 m orange QV	1501038
with end-fitting 006 - pointed hook		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 555W-006 0.5+7.5 orange QV	1501039
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 555W-006 0.5+8.5 orange QV	1501040
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 555W-006 0.5+9.5 orange QV	1501041
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 555W-006 0.5+11.5 orange QV	1501042

WISTRA WTQ 555R tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 555R single-part 8.0 orange QV	1501043
with end-fitting 006 - pointed hook		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 555R-006 0.5+7.5 orange QV	1501044
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 555R-006 0.5+8.5 orange QV	1501045
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 555R-006 0.5+9.5 orange QV	1501046
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 555R-006 0.5+11.5 orange QV	1501047

WISTRA WTQ 5500 tension ratchet lashing strap

- Normal tension force S_{Tf} 500 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 822
- Version with additional quick view label
- Can be supplied with factory certificate / test certificate
- Stretch $\leq 5\%$

With Quick View Label



Accessories



Strap rolling-up system



Parking device

WISTRA WTQ 550K tension ratchet lashing strap

Version with body tissue

Strap 50 mm - the special body-binding technology and modern ultra sound refining ensure a significantly higher abrasion resistance for this polyester webbing (PES), and thereby for a longer service life.

WISTRA WTQ 550W tension ratchet lashing strap

Version with water-repelling webbing

Thanks to the special coating, impacting water rolls off on the polyester fabric (PES) and guarantees optimum application characteristics even at low temperatures. The permanent impregnation also provides good protection from oil-based dirt and is resistant to textile residues like surfactants and alkali.

The fabric does not contain any detectable quantities of PFOA and PFOS.

WISTRA WTQ 550R tension ratchet lashing strap

Version with two reflective strips in the webbing

Strap 50 mm - visual emphasis as a result of the two reflective strips

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 98.

Scan in QR code
and watch webbing
comparison

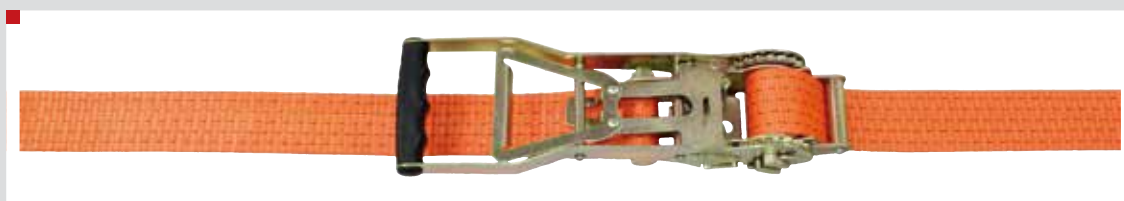


WISTRA WTQ 550K tension ratchet lashing strap



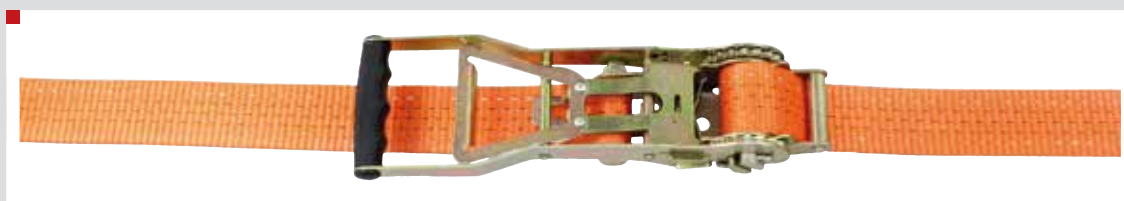
Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 550K single-part 8.0 lemon yellow QV	1501048
with end-fitting 006 - pointed hook		
two-part – FE 0.5 m + LE 7.5 m lemon yellow webbing	WTQ 550K-006 0.5+7.5 lemon yellow QV	1501049
two-part – FE 0.5 m + LE 8.5 m lemon yellow webbing	WTQ 550K-006 0.5+8.5 lemon yellow QV	1501050
two-part – FE 0.5 m + LE 9.5 m lemon yellow webbing	WTQ 550K-006 0.5+9.5 lemon yellow QV	1501051
two-part – FE 0.5 m + LE 11.5 m lemon yellow webbing	WTQ 550K-006 0.5+11.5 lemon yellow QV	1501052

WISTRA WTQ 550W tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 550W single-part 8.0 m orange QV	1501053
with end-fitting 006 - pointed hook		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 550W-006 0.5+7.5 orange QV	1501054
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 550W-006 0.5+8.5 orange QV	1501055
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 550W-006 0.5+9.5 orange QV	1501056
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 550W-006 0.5+11.5 orange QV	1501057

WISTRA WTQ 550R tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 550R single-part 8.0 orange QV	1501058
with end-fitting 006 - pointed hook		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 550R-006 0.5+7.5 orange QV	1501059
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 550R-006 0.5+8.5 orange QV	1501060
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 550R-006 0.5+9.5 orange QV	1501061
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 550R-006 0.5+11.5 orange QV	1501062

WISTRA WTQ 5350 pressure ratchet lashing strap

- Normal tension force S_{TF} 350 daN for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 811
- Version with additional quick view label
- Can be supplied with factory certificate / test certificate
- Stretch $\leq 5\%$

With Quick View Label



Accessories

LASHING STRAP SLIDER
Down lashing of stable loads

Down lashing of stable loads depends on the following factors, et al.:

- The angle of the lashing strap
- The angle of the lashing strap slider
- The angle of the lashing strap slider

FORM-FIT SLIDER
Form-fitted securing of loads securing

Form-fitted securing of loads securing depends on the following factors, et al.:

- The angle of the lashing strap
- The angle of the lashing strap slider
- The angle of the lashing strap slider

Lashing strap slider



Edge protection

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 98.

WISTRA WTQ 535K pressure ratchet lashing strap

Version with body tissue

Strap 50 mm - the special body-binding technology and modern ultra sound refining ensure a significantly higher abrasion resistance for this polyester webbing (PES), and thereby for a longer service life.

WISTRA WTQ 535W pressure ratchet lashing strap

Version with water-repelling webbing

Thanks to the special coating, impacting water rolls off on the polyester fabric (PES) and guarantees optimum application characteristics even at low temperatures. The permanent impregnation also provides good protection from oil-based dirt and is resistant to textile residues like surfactants and alkali.

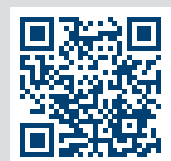
The fabric does not contain any detectable quantities of PFOA and PFOS.

WISTRA WTQ 535R pressure ratchet lashing strap

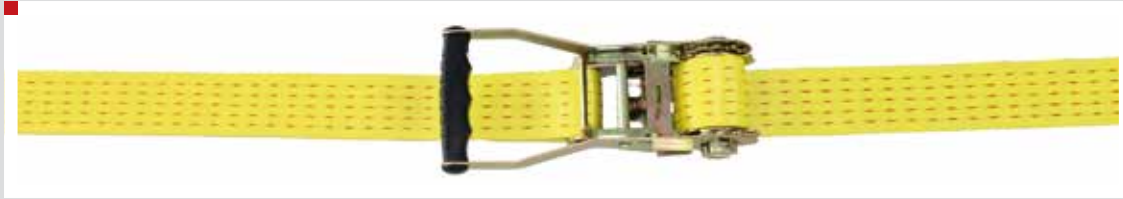
Version with two reflective strips in the webbing

Strap 50 mm - visual emphasis as a result of the two reflective strips

Scan in QR code and watch webbing comparison

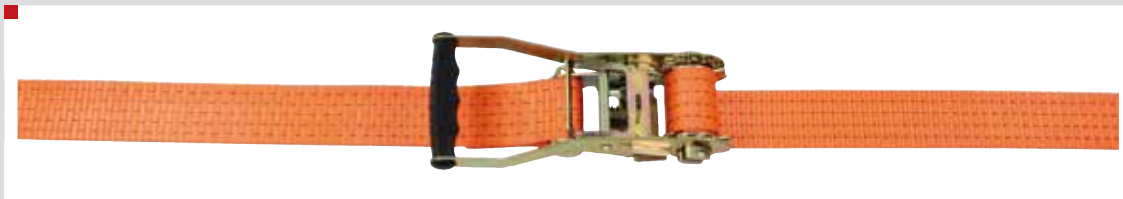


WISTRA WTQ 535K pressure ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 535K single-part 8.0 lemon yellow QV	1501002
with end-fitting 006 - pointed hook		
two-part – FE 0.5 m + LE 7.5 m lemon yellow webbing	WTQ 535K-006 0.5+7.5 lemon yellow QV	1501003
two-part – FE 0.5 m + LE 8.5 m lemon yellow webbing	WTQ 535K-006 0.5+8.5 lemon yellow QV	1501004
two-part – FE 0.5 m + LE 9.5 m lemon yellow webbing	WTQ 535K-006 0.5+9.5 lemon yellow QV	1501005
two-part – FE 0.5 m + LE 11.5 m lemon yellow webbing	WTQ 535K-006 0.5+11.5 lemon yellow QV	1501006

WISTRA WTQ 535W pressure ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 535W single-part 8.0 orange QV	1501007
with end-fitting 006 - pointed hook		
two-part – FE 0.5 m + LE 5.5 m orange webbing	WTQ 535W-006 0.5+5.5 orange QV	1500688
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 535W-006 0.5+7.5 orange QV	1501008
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 535W-006 0.5+8.5 orange QV	1501009
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 535W-006 0.5+9.5 orange QV	1501010

WISTRA WTQ 535R pressure ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 535R single-part 8.0 orange QV	1501012
with end-fitting 006 - pointed hook		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 535R-006 0.5+7.5 orange QV	1501013
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 535R-006 0.5+8.5 orange QV	1501014
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 535R-006 0.5+9.5 orange QV	1501015
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 535R-006 0.5+11.5 orange QV	1501016

WISTRA WTL 5550 tension ratchet lashing strap

- Normal tension force S_{Tf} 550 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 818
- Strap 50 mm – durable due to PU coated webbing (PES)
- Stretch $\leq 5\%$

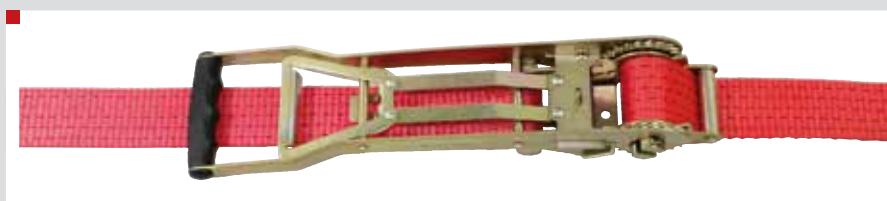


End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 98.

With Quick View Label



Standard version	Short designation	Item No.
single-part - 6.0 m red webbing	WTL 5550 single-part 6.0 red QV	1506986
single-part - 8.0 m red webbing	WTL 5550 single-part 8.0 red QV	1502588
single-part - 10.0 m red webbing	WTL 5550 single-part 10.0 red QV	1506987
with end-fitting 006 - pointed hook		
two-part – FE 0.5 m + LE 5.5 m red webbing	WTL 5550-006 0.5+5.5 red QV	1506988
two-part – FE 0.5 m + LE 7.5 m red webbing	WTL 5550-006 0.5+7.5 red QV	1502589
two-part – FE 0.5 m + LE 8.5 m red webbing	WTL 5550-006 0.5+8.5 red QV	1502590
two-part – FE 0.5 m + LE 9.5 m red webbing	WTL 5550-006 0.5+9.5 red QV	1502591
two-part – FE 0.5 m + LE 11.5 m red webbing	WTL 5550-006 0.5+11.5 red QV	1502592
Fixed end 0.5 m red webbing	WTL 5550-006 FE 0.5 red QV	1500714
Loose end 5.5 m red webbing	WTR 5000-006 FE 5.5 red QV	1506990
Loose end 7.5 m red webbing	WTR 5000-006 FE 7.5 red QV	1506989
Loose end 8.5 m red webbing	WTR 5000-006 FE 8.5 red QV	1506991
Loose end 9.5 m red webbing	WTR 5000-006 FE 9.5 red QV	1506992
Loose end 11.5 m red webbing	WTR 5000-006 FE 11.5 red QV	1506993
with end-fitting 006 - pointed hook, loose ends with individual "print"		
two-part – FE 0.5 m + LE 5.5 m red webbing	WTL 5550-006 0.5+5.5 red "print" QV	1506994
two-part – FE 0.5 m + LE 7.5 m red webbing	WTL 5550-006 0.5+7.5 red "print" QV	1506995
two-part – FE 0.5 m + LE 8.5 m red webbing	WTL 5550-006 0.5+8.5 red "print" QV	1506996
two-part – FE 0.5 m + LE 9.5 m red webbing	WTL 5550-006 0.5+9.5 red "print" QV	1506997
two-part – FE 0.5 m + LE 11.5 m red webbing	WTL 5550-006 0.5+11.5 red "print" QV	1506998

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTE 5500 tension ratchet lashing strap

- Normal tension force S_{TF} 500 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 822
- Strap 50 mm – durable due to PU coated webbing (PES)
- Stretch $\leq 5\%$

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 98.

With Quick View Label



Standard version	Short designation	Item No.
single-part - 6.0 m red webbing	WTE 5500 single-part 6.0 red	1509578
single-part - 8.0 m red webbing	WTE 5500 single-part 8.0 red	1509579
single-part - 10.0 m red webbing	WTE 5500 single-part 10.0 red	1509580
with end-fitting 006 - pointed hook		
two-part – FE 0.4 m + LE 5.6 m red webbing	WTE 5500-006 0.4+5.6 red	1509581
two-part – FE 0.4 m + LE 7.6 m red webbing	WTE 5500-006 0.4+7.6 red	1500317
two-part – FE 0.4 m + LE 8.6 m red webbing	WTE 5500-006 0.4+8.6 red	1509582
two-part – FE 0.4 m + LE 9.6 m red webbing	WTE 5500-006 0.4+9.6 red	1500323
two-part – FE 0.4 m + LE 11.6 m red webbing	WTE 5500-006 0.4+11.6 red	1509583
Fixed end 0.4 m red webbing	WTE 5500-006 FE 0.4 red	1500310
Loose end 5.6 m red webbing	WTR 5000-006 FE 5.6 red	11000090060056
Loose end 7.6 m red webbing	WTR 5000-006 FE 7.6 red	11000090060076
Loose end 8.6 m red webbing	WTR 5000-006 FE 8.6 red	11000090060086
Loose end 9.6 m red webbing	WTR 5000-006 FE 9.6 red	11000090060096
Loose end 11.6 m red webbing	WTR 5000-006 FE 11.6 red	110000900600116
with end-fitting 006 - pointed hook, loose ends with individual "print"		
two-part – FE 0.4 m + LE 5.6 m red webbing	WTE 5500-006 0.4+5.6 red "print"	1509584
two-part – FE 0.4 m + LE 7.6 m red webbing	WTE 5500-006 0.4+7.6 red "print"	1509585
two-part – FE 0.4 m + LE 8.6 m red webbing	WTE 5500-006 0.4+8.6 red "print"	1509586
two-part – FE 0.4 m + LE 9.6 m red webbing	WTE 5500-006 0.4+9.6 red "print"	1500324
two-part – FE 0.4 m + LE 11.6 m red webbing	WTE 5500-006 0.4+11.6 red "print"	1509587

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTR 5000 pressure ratchet lashing strap

- Normal tension force S_{TF} 350 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 811
- Strap 50 mm – durable due to PU coated webbing (PES)
- Stretch \leq 5%

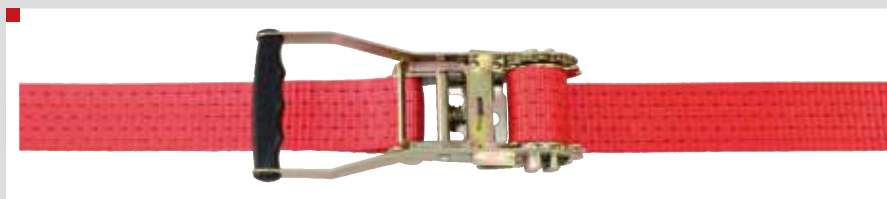


End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 98.

With Quick View Label



Standard version	Short designation	Item No.
single-part - 6.0 m red webbing	WTR 5000 single-part 6.0 red	11811090006000
single-part - 8.0 m red webbing	WTR 5000 single-part 8.0 red	11811090008000
single-part - 10.0 m red webbing	WTR 5000 single-part 10.0 red	118110900010000
with end-fitting 006 - pointed hook		
two-part – FE 0.4 m + LE 5.6 m red webbing	WTR 5000-006 0.4+5.6 red	11811090060456
two-part – FE 0.4 m + LE 7.6 m red webbing	WTR 5000-006 0.4+7.6 red	11811090060476
two-part – FE 0.4 m + LE 8.6 m red webbing	WTR 5000-006 0.4+8.6 red	11811090060486
two-part – FE 0.4 m + LE 9.6 m red webbing	WTR 5000-006 0.4+9.6 red	11811090060496
two-part – FE 0.4 m + LE 11.6 m red webbing	WTR 5000-006 0.4+11.6 red	118110900604116
Fixed end 0.4 m red webbing	WTR 5000-006 FE 0.4 red	11811090060400
Loose end 5.6 m red webbing	WTR 5000-006 FE 5.6 red	11000090060056
Loose end 7.6 m red webbing	WTR 5000-006 FE 7.6 red	11000090060076
Loose end 8.6 m red webbing	WTR 5000-006 FE 8.6 red	11000090060086
Loose end 9.6 m red webbing	WTR 5000-006 FE 9.6 red	11000090060096
Loose end 11.6 m red webbing	WTR 5000-006 FE 11.6 red	110000900600116
with end-fitting 006 - pointed hook, loose ends with individual "print"		
two-part – FE 0.4 m + LE 5.6 m red webbing	WTR 5000-006 0.4+5.6 red "print"	1507069
two-part – FE 0.4 m + LE 7.6 m red webbing	WTR 5000-006 0.4+7.6 red "print"	1507070
two-part – FE 0.4 m + LE 8.6 m red webbing	WTR 5000-006 0.4+8.6 red "print"	1507071
two-part – FE 0.4 m + LE 9.6 m red webbing	WTR 5000-006 0.4+9.6 red "print"	1507072
two-part – FE 0.4 m + LE 11.6 m red webbing	WTR 5000-006 0.4+11.6 red "print"	1507073

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTR 4000 pressure ratchet lashing strap

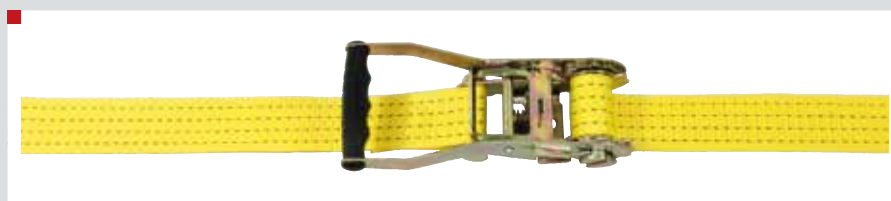
- Normal tension force S_{TF} 350 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2,000 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 811
- Strap 50 mm – durable due to PU coated webbing (PES)
- Stretch \leq 5%

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 4,000 daN from Page 98.

With Quick View Label



Standard version	Short designation	Item No.
single-part - 6.0 m yellow webbing	WTR 4000 single-part 6.0 yellow	11811060006000
single-part - 8.0 m yellow webbing	WTR 4000 single-part 8.0 yellow	11811060008000
single-part - 10.0 m yellow webbing	WTR 4000 single-part 10.0 yellow	1501673
with end-fitting 006 - pointed hook		
two-part – FE 0.4 m + LE 5.6 m yellow webbing	WTR 4000-006 0.4+5.6 yellow	118110600060456
two-part – FE 0.4 m + LE 7.6 m yellow webbing	WTR 4000-006 0.4+7.6 yellow	118110600060476
two-part – FE 0.4 m + LE 8.6 m yellow webbing	WTR 4000-006 0.4+8.6 yellow	118110600060486
two-part – FE 0.4 m + LE 9.6 m yellow webbing	WTR 4000-006 0.4+9.6 yellow	118110600060496
two-part – FE 0.4 m + LE 11.6 m yellow webbing	WTR 4000-006 0.4+11.6 yellow	1181106000604116
Fixed end 0.4 m yellow webbing	WTR 4000-006 FE 0.4 yellow	118110600060400
Loose end 5.6 m yellow webbing	WTR 4000-006 FE 5.6 yellow	1504414
Loose end 7.6 m yellow webbing	WTR 4000-006 FE 7.6 yellow	110000600060076
Loose end 8.6 m yellow webbing	WTR 4000-006 FE 8.6 yellow	110000600060086
Loose end 9.6 m yellow webbing	WTR 4000-006 FE 9.6 yellow	110000600060096
Loose end 11.6 m yellow webbing	WTR 4000-006 FE 11.6 yellow	1100006000600116
with end-fitting 006 - pointed hook, loose ends with individual "print"		
two-part – FE 0.4 m + LE 5.6 m yellow webbing	WTR 4000-006 0.4+5.6 yellow "print"	1507063
two-part – FE 0.4 m + LE 7.6 m yellow webbing	WTR 4000-006 0.4+7.6 yellow "print"	1507064
two-part – FE 0.4 m + LE 8.6 m yellow webbing	WTR 4000-006 0.4+8.6 yellow "print"	1507065
two-part – FE 0.4 m + LE 9.6 m yellow webbing	WTR 4000-006 0.4+9.6 yellow "print"	1507066
two-part – FE 0.4 m + LE 11.6 m yellow webbing	WTR 4000-006 0.4+11.6 yellow "print"	1507067

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTN 3700 tension ratchet lashing strap

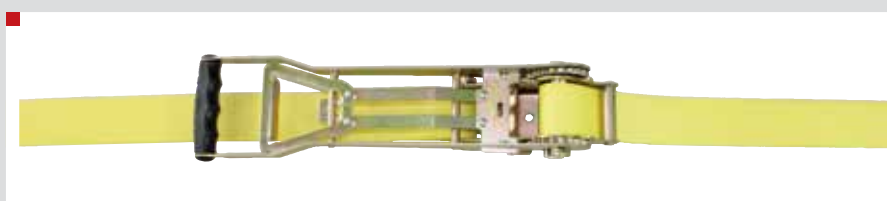
with high tension force for tying down

- Normal tension force S_{TF} 704 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 1,600 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 818
- Strap 50 mm – durable due to PU coated webbing (PES)
- Stretch \leq 5%

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 1,600 daN from Page 98.



Standard version	Short designation	Item No.
with end-fitting 006 – pointed hook		
two-part – FE 0.5 m + LE 7.5 m	WTN 3700-006 0.5 + 7.5 yellow	1502672
two-part – FE 0.5 m + LE 8.5 m	WTN 3700-006 0,5 + 8.5 yellow	1502673
two-part – FE 0.5 m + LE 9.5 m	WTN 3700-006 0.5 + 9.5 yellow	1502674
two-part – FE 0.5 m + LE 11.5 m	WTN 3700-006 0.5 + 11.5 yellow	1502675

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

With Quick View Label



WISTRA WTB 5000 head lashing straps

Round slings with traverse arches

- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Strap 50 mm – durable due to PU coated webbing (PES)



Standard version both with free-running D-ring	Short designation	Item No.
Round sling for 2.4 m wide goods	WTB 5000-2400-018	1503026
Round sling for 1.2 m wide goods	WTB 5000-1200-018	1503027
Round sling for 0.8 m wide goods	WTB 5000-0800-018	1503028

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTF 5000-306/006 ratchet lashing strap

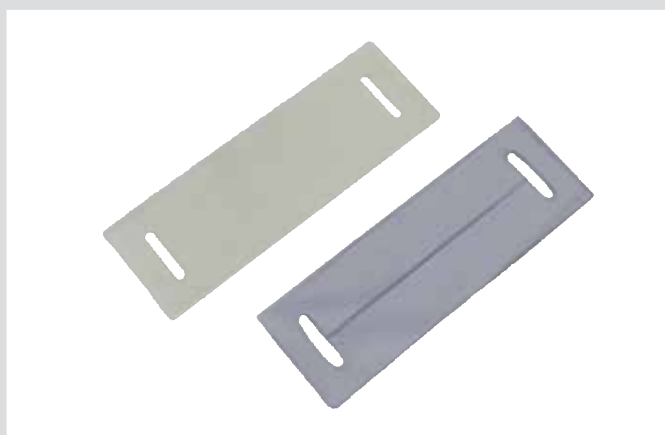
Version with adjustable length of the fixed end

- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Strap 50 mm – durable due to PU coated webbing (PES)
- Version with additional quick view label
- Can be supplied with factory certificate / test certificate
- Stretch \leq 5%

With Quick View Label



Accessories



Ratchet bases



Label cover

WISTRA WTF 5550-306/006 tension ratchet lashing strap

- Normal tension force S_{TF} 550 daN
for normal hand force S_{HF} 50 daN
- Tensioning element ratchet 818

WISTRA WTF 5500-306/006 tension ratchet lashing strap

- Normal tension force S_{TF} 500 daN
for normal hand force S_{HF} 50 daN
- Tensioning element ratchet 822

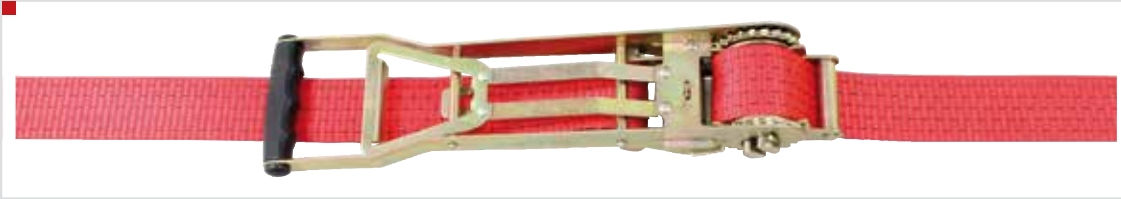
WISTRA WTF 5350-306/006 pressure ratchet lashing strap

- Normal tension force S_{TF} 350 daN
for normal hand force S_{HF} 50 daN
- Tensioning element ratchet 811

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 98.

WISTRA WTF 5550-306/006 tension ratchet lashing strap

Standard version	Short designation	Item No.
Fixed end with end-fitting 306 - pointed hook, loose end with end-fitting 006 - pointed hook		
two-part – FE 0.3 m to 1.5 m + LE 7.6 m red webbing	WTF 5550-306/006 0.3/1.5 m + 7.6 m red	1502796
two-part – FE 0.3 m to 1.5 m + LE 9.6 m red webbing	WTF 5550-306/006 0.3/1.5 m + 9.6 m red	1502797
two-part – FE 0.3 m to 1.5 m + LE 11.6 m red webbing	WTF 5550-306/006 0.3/1.5 m + 11.6 m red	1502795

WISTRA WTF 5500-306/006 tension ratchet lashing strap

Standard version	Short designation	Item No.
Fixed end with end-fitting 306 - pointed hook, loose end with end-fitting 006 - pointed hook		
two-part – FE 0.3 m to 1.5 m + LE 7.6 m red webbing	WTF 5500-306/006 0.3/1.5 m + 7.6 m red	1502827
two-part – FE 0.3 m to 1.5 m + LE 9.6 m red webbing	WTF 5500-306/006 0.3/1.5 m + 9.6 m red	1502828
two-part – FE 0.3 m to 1.5 m + LE 11.6 m red webbing	WTF 5500-306/006 0.3/1.5 m + 11.6 m red	1502826

WISTRA WTF 5350-306/006 tension ratchet lashing strap

Standard version	Short designation	Item No.
Fixed end with end-fitting 306 - pointed hook, loose end with end-fitting 006 - pointed hook		
two-part – FE 0.3 m to 1.5 m + LE 7.6 m red webbing	WTF 5350-306/006 0.3/1.5 m + 7.6 m red	1502860
two-part – FE 0.3 m to 1.5 m + LE 9.6 m red webbing	WTF 5350-306/006 0.3/1.5 m + 9.6 m red	1502861
two-part – FE 0.3 m to 1.5 m + LE 11.6 m red webbing	WTF 5350-306/006 0.3/1.5 m + 11.6 m red	1502858

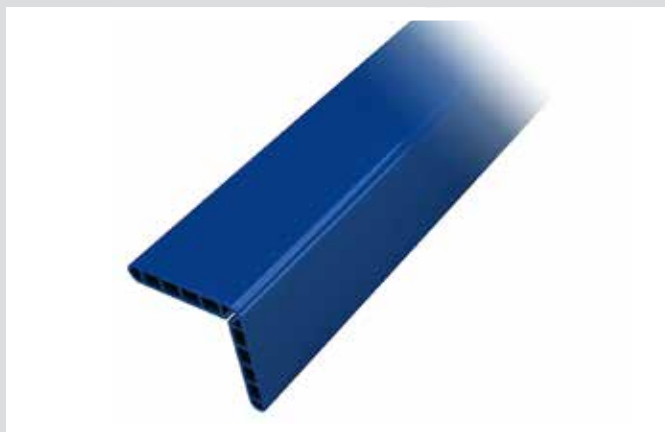
Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTL/E/R 500A-006 ratchet lashing strap

Version with high tension force for tying down with fixed ends on both sides - Type A

- System - normal initial tension force $STF \times 2$
for normal hand force $2 \times SHF$ 50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Strap 50 mm – durable due to PU coated webbing (PES)
- Stretch $\leq 5\%$

Accessories



Edge protection



Edge protection

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 98.

WISTRA WTL 555A-006 tension ratchet lashing strap

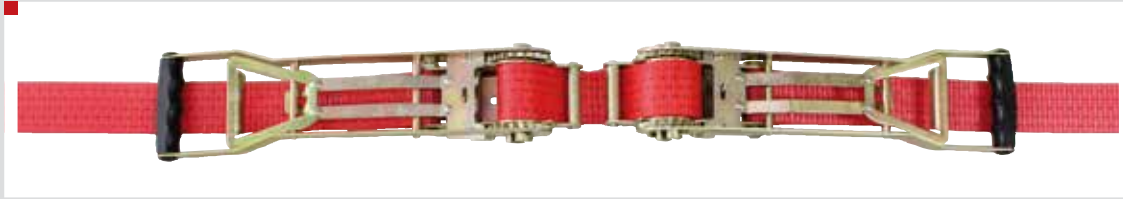
- System - normal tension force STF 550 daN $\times 2 = 1,100$ daN
for normal hand force $2 \times SHF$ 50 daN
- Tensioning element ratchet 818

WISTRA WTE 550A-006 tension ratchet lashing strap

- System - normal tension force STF 500 daN $\times 2 = 1,000$ daN
for normal hand force $2 \times SHF$ 50 daN
- Tensioning element ratchet 822

WISTRA WTR 535A-006 pressure ratchet lashing strap

- System - normal tension force STF 350 daN $\times 2 = 700$ daN
for normal hand force $2 \times SHF$ 50 daN
- Tensioning element ratchet 811

WISTRA WTL 555A-006 tension ratchet lashing strap

Standard version	Short designation	Item No.
Fixed ends with end-fitting 006 - pointed hook		
three-part – 2 x FE 0.5 m + LE 7.0 m red webbing	WTL 555A-006 2x0.5+7.0 red	1502923
three-part – 2 x FE 0.5 m + LE 9.0 m red webbing	WTL 555A-006 2x0.5+9.0 red	1502924
three-part – 2 x FE 0.5 m + LE 11.0 m red webbing	WTL 555A-006 2x0.5+11.0 red	1502925

WISTRA WTE 550A-006 tension ratchet lashing strap

Standard version	Short designation	Item No.
Fixed ends with end-fitting 006 - pointed hook		
three-part – 2 x FE 0.4 m + LE 7.0 m red webbing	WTE 550A-006 2x0.4+7.0 red	1502953
three-part – 2 x FE 0.4 m + LE 9.0 m red webbing	WTE 550A-006 2x0.4+9.0 red	1502954
three-part – 2 x FE 0.4 m + LE 11.0 m red webbing	WTE 550A-006 2x0.4+11.0 red	1502955

WISTRA WTR 535A-006 pressure ratchet lashing strap

Standard version	Short designation	Item No.
Fixed ends with end-fitting 006 - pointed hook		
three-part – 2 x FE 0.4 m + LE 7.0 m red webbing	WTR 535A-006 2x0.4+7.0 red	1502983
three-part – 2 x FE 0.4 m + LE 9.0 m red webbing	WTR 535A-006 2x0.4+9.0 red	1502984
three-part – 2 x FE 0.4 m + LE 11.0 m red webbing	WTR 535A-006 2x0.4+11.0 red	1502985

Lashing straps · to LC 1,000 daN

On the following pages you can find a wide selection of lashing straps for the most diverse areas.

The WISTRA team will gladly assist you if you have any questions.



WTK 600-605/025



WTR 2000

Overview of the lashing strap options

Sorted according to LC in straight tension

1,000 daN	750 daN	500 daN	450 daN	400 daN	300 daN	250 daN	175 daN	125 daN
WTR 2000	WTR 1500	WTR 1000	WTW 900	WTR 800	WTK 600	WTK 500	WTK 350	WTW 250
WTR 2200		WTK 1000						
		WTS 1000						

WISTRA WTR 2000 pressure ratchet lashing strap

- Normal tension force S_{TF} 240 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 908
- Strap 35 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 2,000 daN from Page 98.

Optional with Quick View Label



Standard version	Short designation	Item No.
single-part - 3.0 m orange webbing	WTR 2000 single-part 3.0 orange	1350995
single-part - 4.0 m orange webbing	WTR 2000 single-part 4.0 orange	1350996
single-part - 5.0 m orange webbing	WTR 2000 single-part 5.0 orange	1350997
single-part - 6.0 m orange webbing	WTR 2000 single-part 6.0 orange	1350998
single-part - 8.0 m orange webbing	WTR 2000 single-part 8.0 orange	1351000
with end-fitting 520 - pointed hook		
two-part – FE 0.3 m + LE 3.7 m orange webbing	WTR 2000-520 0.3+3.7 orange	1350592
two-part – FE 0.3 m + LE 5.7 m orange webbing	WTR 2000-520 0.3+5.7 orange	1350593
two-part – FE 0.5 m + LE 5.5 m orange webbing	WTR 2000-520 0.5+5.5 orange	1350607
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTR 2000-520 0.5+7.5 orange	1350609

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTR 2200 pressure ratchet lashing strap

- Normal tension force S_{TF} 200 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 917
- Strap 35 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 2,000 daN from Page 98.

Optional with Quick View Label



Standard version	Short designation	Item No.
single-part - 3.0 m orange webbing	WTR 2200 single-part 3.0 orange	1353006
single-part - 4.0 m orange webbing	WTR 2200 single-part 4.0 orange	1353007
single-part - 5.0 m orange webbing	WTR 2200 single-part 5.0 orange	1353008
single-part - 6.0 m orange webbing	WTR 2200 single-part 6.0 orange	1353009
single-part - 8.0 m orange webbing	WTR 2200 single-part 8.0 orange	1353010
with end-fitting 520 - pointed hook		
two-part – FE 0.3 m + LE 3.7 m orange webbing	WTR 2200 520 0.3+3.7 orange	1353002
two-part – FE 0.3 m + LE 5.7 m orange webbing	WTR 2200 520 0.3+5.7 orange	1353003
two-part – FE 0.5 m + LE 5.5 m orange webbing	WTR 2200 520 0.5+5.5 orange	1353004
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTR 2200 520 0.5+7.5 orange	1353005

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTR 1500 pressure ratchet lashing strap

- Normal tension force S_{TF} 210 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 750 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 916
- Strap 50 mm – durable due to PU coated webbing (PES)

End-fittings:

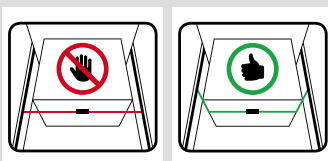


You can find additional end-fittings with a minimum breaking force MBL 1,500 daN from Page 98.



Standard version	Short designation	Item No.
single-part - 1.0 m green webbing	WTR 1500 single-part 1.0 green	1504467
single-part - 2.0 m green webbing	WTR 1500 single-part 2.0 green	1504474
single-part - 3.0 m green webbing	WTR 1500 single-part 3.0 green	1504475
single-part - 4.0 m green webbing	WTR 1500 single-part 4.0 green	1501838
single-part - 5.0 m green webbing	WTR 1500 single-part 5.0 green	1504476
single-part - 6.0 m green webbing	WTR 1500 single-part 6.0 green	1504477
single-part - 7.0 m green webbing	WTR 1500 single-part 7.0 green	1504478
single-part - 8.0 m green webbing	WTR 1500 single-part 8.0 green	1504479
with end-fitting 826 - anchor combi end-fitting		
two-part – FE 0.2 m + LE 0.8 m green webbing	WTR 1500-826 0.2+0.8 green	1504225
two-part – FE 0.2 m + LE 1.8 m green webbing	WTR 1500-826 0.2+1.8 green	1504226
two-part – FE 0.2 m + LE 2.8 m green webbing	WTR 1500-826 0.2+2.8 green	1504232
two-part – FE 0.2 m + LE 3.8 m green webbing	WTR 1500-826 0.2+3.8 green	1501344
two-part – FE 0.3 m + LE 3.0 m blue webbing	WTR 1500-826 0.3+ 3.0 blue	1501786
two-part – FE 0.5 m + LE 1.5 m green webbing	WTR 1500-826 0.5+1.5 green	1504244
two-part – FE 0.5 m + LE 2.5 m green webbing	WTR 1500-826 0.5+2.5 green	1504250
two-part – FE 0.5 m + LE 4.5 m green webbing	WTR 1500-826 0.5+4.5 green	1504252
two-part – FE 0.5 m + LE 5.5 m green webbing	WTR 1500-826 0.5+5.5 green	1504253
two-part – FE 1.0 m + LE 3.0 m green webbing	WTR 1500-826 1.0+3.0 green	1504271
two-part – FE 1.0 m + LE 4.0 m green webbing	WTR 1500-826 1.0+4.0 green	1504273
two-part – FE 1.2 m + LE 2.4 m green webbing	WTR 1500-826 1.2+2.4 green	1508001

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.



Sticker inside lashing strap

Item No. 981002

WISTRA WTR 1000 pressure ratchet lashing strap

- Normal tension force S_{TF} 200 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 915
- Strap 25 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 1,000 daN from Page 98.



Standard version	Short designation	Item No.
single-part - 1.0 m red webbing	WTR 1000 single-part 1.0 red	1251318
single-part - 2.0 m red webbing	WTR 1000 single-part 2.0 red	1257834
single-part - 3.0 m red webbing	WTR 1000 single-part 3.0 red	1257835
single-part - 3.5 m red webbing	WTR 1000 single-part 3.5 red	1250015
single-part - 4.0 m red webbing	WTR 1000 single-part 4.0 red	1257836
single-part - 5.0 m red webbing	WTR 1000 single-part 5.0 red	1257837
single-part - 6.0 m red webbing	WTR 1000 single-part 6.0 red	1257838
single-part - 8.0 m red webbing	WTR 1000 single-part 8.0 red	1257840
with end-fitting 002 - pointed hook		
two-part – FE 0.2 m + LE 0.8 m red webbing	WTR 1000-002 0.2+0.8 red	1255086
two-part – FE 0.2 m + LE 1.8 m red webbing	WTR 1000-002 0.2+1.8 red	1255087
two-part – FE 0.2 m + LE 2.8 m red webbing	WTR 1000-002 0.2+2.8 red	1251242
two-part – FE 0.2 m + LE 3.8 m red webbing	WTR 1000-002 0.2+3.8 red	1255093
two-part – FE 0.5 m + LE 1.5 m red webbing	WTR 1000-002 0.5+1.5 red	1255100
two-part – FE 0.5 m + LE 2.5 m red webbing	WTR 1000-002 0.5+2.5 red	1250144
two-part – FE 0.5 m + LE 3.5 m red webbing	WTR 1000-002 0.5+3.5 red	1255106
two-part – FE 0.5 m + LE 4.5 m red webbing	WTR 1000-002 0.5+4.5 red	1255107
two-part – FE 0.5 m + LE 5.5 m red webbing	WTR 1000-002 0.5+5.5 red	1255108
with end-fitting 025 - for bar tracks and safety seam to prevent slipping of the loose end out of the ratchet		
two-part – FE 0.3 m + LE 3.2 m blue webbing	WTR 1000-025 0.3+3.2 blue SN	1251293
with end-fitting 311 - for spring hook and safety seam to prevent slipping of the loose end out of the ratchet		
two-part – FE 0.2 m + LE 3.2 m blue webbing	WTR 1000-311 0.2+3.2 blue SN	1251306
two-part – FE 0.2 m + LE 5.8 m blue webbing	WTR 1000-311 0.2+5.8 blue SN	1251307
with end-fitting 382 - for airline lashing tracks and safety seam to prevent slipping of the loose end out of the ratchet		
two-part – FE 0.2 m + LE 0.7 m blue webbing	WTR 1000-382 0.2+0.7 blue SN	1251286
two-part – FE 0.2 m + LE 3.2 m blue webbing	WTR 1000-382 0.2+3.2 blue SN	1251308
two-part – FE 0.2 m + LE 5.8 m blue webbing	WTR 1000-382 0.2+5.8 blue SN	1251309

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

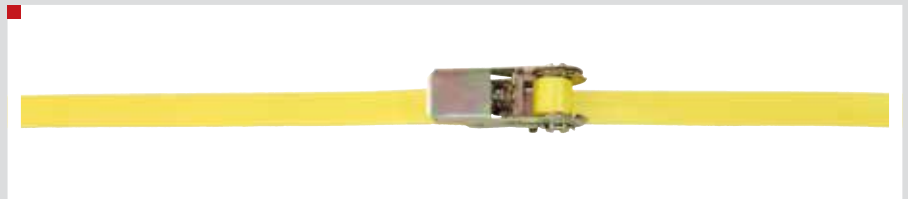
WISTRA WTR 800 pressure ratchet lashing strap

- Normal tension force S_{TF} 160 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 400 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 906
- Strap 25 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 800 daN from Page 98.



Standard version	Short designation	Item No.
single-part - 1.0 m yellow webbing	WTR 800 single-part 1.0 yellow	1259465
single-part - 2.0 m yellow webbing	WTR 800 single-part 2.0 yellow	1259472
single-part - 3.0 m yellow webbing	WTR 800 single-part 3.0 yellow	1259473
single-part - 4.0 m yellow webbing	WTR 800 single-part 4.0 yellow	1259474
single-part - 5.0 m yellow webbing	WTR 800 single-part 5.0 yellow	1259475
single-part - 6.0 m yellow webbing	WTR 800 single-part 6.0 yellow	1259476
single-part - 8.0 m yellow webbing	WTR 800 single-part 8.0 yellow	1259477
with end-fitting 002 - pointed hook		
two-part – FE 0.2 m + LE 0.8 m yellow webbing	WTR 800-002 0.2+0.8 yellow	1257964
two-part – FE 0.2 m + LE 1.8 m yellow webbing	WTR 800-002 0.2+1.8 yellow	1257965
two-part – FE 0.2 m + LE 2.8 m yellow webbing	WTR 800-002 0.2+2.8 yellow	1257971
two-part – FE 0.2 m + LE 3.8 m yellow webbing	WTR 800-002 0.2+3.8 yellow	1257972
two-part – FE 0.5 m + LE 1.5 m yellow webbing	WTR 800-002 0.5+1.5 yellow	1257980
two-part – FE 0.5 m + LE 2.5 m yellow webbing	WTR 800-002 0.5+2.5 yellow	1257986
two-part – FE 0.5 m + LE 3.5 m yellow webbing	WTR 800-002 0.5+3.5 yellow	1257987
two-part – FE 0.5 m + LE 4.5 m yellow webbing	WTR 800-002 0.5+4.5 yellow	1257988
two-part – FE 0.5 m + LE 5.5 m yellow webbing	WTR 800-002 0.5+5.5 yellow	1257989

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTW 900 Automatic lashing strap

- Normal tension force S_{TF} 81 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 450 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Strap 50 mm

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 800 daN from Page 98.

WISTRA Information

The length of the "fixed end" can be produced in variable lengths.

With this design, the winding housing can be screwed on directly or designed with an end-fitting with a length of at least 200 mm.



Standard version	Short designation	Item No.
with end-fitting 726 – S hook		
two-part – FE 0.4 m + LE 2.4 m black webbing	WTW 900-726 0.4+ 2.4 black	1500950
with end-fitting 826 - anchor combi end-fitting		
two-part – FE 0.4 m + LE 2.4 m black webbing	WTW 900-826 0.4+ 2.4 black	1500575
with end-fitting 007 – pointed hook		
two-part – FE 0.4 m + LE 2.4 m black webbing	WTW 900-007 0.4+ 2.4 black	1500452
with end-fitting 380 – for airline lashing tracks		
two-part – FE 0.4 m + LE 2.4 m black webbing	WTW 900-380 0.4+ 2.4 black	1500576

Versions with other end-fittings, individual property markings or other special requirements on request

WISTRA WTW 250 Automatic lashing strap

- Normal tension force S_{TF} 27 daN
for normal hand force S_{HF} 50 daN
- Lashing capacity LC 125 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Strap 25 mm

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 250 daN from Page 98.

WISTRA Information

The "fixed end" can be designed with variable lengths from 200 mm upwards.



Standard version	Short designation	Item No.
with end-fitting 382 – for airline lashing tracks		
two-part – FE 0.2 m + LE 2.0 m black webbing	WTW 250-382 0.2 + 2.0 black	1250346
with end-fitting 002 – pointed hook		
two-part – FE 0.2 m + LE 2.0 m black webbing	WTW 250-002 0.2 + 2.0 black	1250337
with end-fitting 725 – S hook		
two-part – FE 0.2 m + LE 2.0 m black webbing	WTW 250-725 0.2 + 2.0 black	1250150
with end-fitting 025 – for track with pins		
two-part – FE 0.2 m + LE 2.0 m black webbing	WTW 250-025 0.2 + 2.0 black	1250293

Versions with other end-fittings, individual property markings or other special requirements on request

WISTRA WTK 1000 clamp lock lashing strap

- Lashing capacity LC 500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- [Tensioning element clamp lock 907](#)
- Strap 50 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 1,000 daN from Page 98.



Standard version	Short designation	Item No.
single-part - 1.0 m green webbing	WTK 1000 single-part 1.0 green	1504014
single-part - 2.0 m green webbing	WTK 1000 single-part 2.0 green	1504021
single-part - 3.0 m green webbing	WTK 1000 single-part 3.0 green	1504022
single-part - 4.0 m green webbing	WTK 1000 single-part 4.0 green	1504023
single-part - 5.0 m green webbing	WTK 1000 single-part 5.0 green	1504024
single-part - 6.0 m green webbing	WTK 1000 single-part 6.0 green	1504025
single-part - 8.0 m green webbing	WTK 1000 single-part 8.0 green	1504027
with end-fitting 826 - anchor combi end-fitting		
two-part – FE 0.2 m + LE 0.8 m green webbing	WTK 1000-826 0.2+0.8 green	1503782
two-part – FE 0.2 m + LE 1.8 m green webbing	WTK 1000-826 0.2+1.8 green	1503783
two-part – FE 0.2 m + LE 2.8 m green webbing	WTK 1000-826 0.2+2.8 green	1503789
two-part – FE 0.2 m + LE 3.8 m green webbing	WTK 1000-826 0.2+3.8 green	1503790
two-part – FE 0.5 m + LE 1.5 m green webbing	WTK 1000-826 0.5+1.5 green	1503798
two-part – FE 0.5 m + LE 2.5 m green webbing	WTK 1000-826 0.5+2.5 green	1503804
two-part – FE 0.5 m + LE 3.5 m green webbing	WTK 1000-826 0.5+3.5 green	1503805
two-part – FE 0.5 m + LE 4.5 m green webbing	WTK 1000-826 0.5+4.5 green	1501571
two-part – FE 0.5 m + LE 5.5 m green webbing	WTK 1000-826 0.5+5.5 green	1503806
two-part – FE 1.0 m + LE 3.0 m green webbing	WTK 1000-826 1.0+3.0 green	1501627
two-part – FE 1.0 m + LE 4.0 m green webbing	WTK 1000-826 1.0+4.0 green	1503826
two-part – FE 1.2 m + LE 2.4 m green webbing	WTK 1000-826 1.2+2.4 green	1508004

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTK 600 clamp lock lashing strap with quick tensioning device

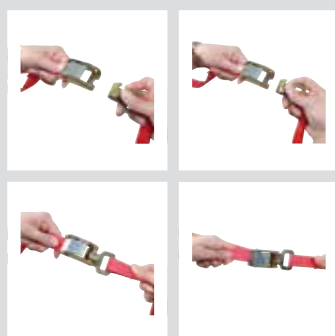
- Lashing capacity LC 300 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- [Tensioning element clamp lock 605](#)
- Strap 25 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 600 daN from Page 98.

Advantages



- tensioning within seconds
- no threading of the webbing
- easy opening of the quick tensioning device



Standard version	Short designation	Item No.
single-part - 1.0 m red webbing	WTK 600 - single-part 605/025 1.0 red	1255071
single-part - 2.0 m red webbing	WTK 600 - single-part 605/025 2.0 red	1255078
single-part - 3.0 m red webbing	WTK 600 - single-part 605/025 3.0 red	1255079
single-part - 4.0 m red webbing	WTK 600 - single-part 605/025 4.0 red	1255080
single-part - 5.0 m red webbing	WTK 600 - single-part 605/025 5.0 red	1255081
single-part - 6.0 m red webbing	WTK 600 - single-part 605/025 6.0 red	1255082
single-part - 8.0 m red webbing	WTK 600 - single-part 605/025 8.0 red	1255084
with end-fitting 002 - pointed hook		
two-part – FE 0.2 m + LE 0.8 m red webbing	WTK 600-605/025-002 0.2+0.8 red	1254982
two-part – FE 0.2 m + LE 1.8 m red webbing	WTK 600-605/025-002 0.2+1.8 red	1254983
two-part – FE 0.2 m + LE 2.8 m red webbing	WTK 600-605/025-002 0.2+2.8 red	1254984
two-part – FE 0.2 m + LE 3.8 m red webbing	WTK 600-605/025-002 0.2+3.8 red	1254985
two-part – FE 0.5 m + LE 1.5 m red webbing	WTK 600-605/025-002 0.5+1.5 red	1254986
two-part – FE 0.5 m + LE 2.5 m red webbing	WTK 600-605/025-002 0.5+2.5 red	1254987
two-part – FE 0.5 m + LE 3.5 m red webbing	WTK 600-605/025-002 0.5+3.5 red	1254988
two-part – FE 0.5 m + LE 4.5 m red webbing	WTK 600-605/025-002 0.5+4.5 red	1254989
two-part – FE 0.5 m + LE 5.5 m red webbing	WTK 600-605/025-002 0.5+5.5 red	1254990

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTK 500 clamp lock lashing strap

- Lashing capacity LC 250 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- [Tensioning element clamp lock 805](#)
- Strap 25 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 500 daN from Page 98.



Standard version	Short designation	Item No.
single-part - 1.0 m yellow webbing	WTK 500 single-part 1.0 yellow	1254970
single-part - 2.0 m yellow webbing	WTK 500 single-part 2.0 yellow	1254977
single-part - 3.0 m yellow webbing	WTK 500 single-part 3.0 yellow	1254124
single-part - 3.5 m blue webbing	WTK 500 single-part 3.5 blue	1251304
single-part - 4.0 m yellow webbing	WTK 500 single-part 4.0 yellow	1250001
single-part - 5.0 m yellow webbing	WTK 500 single-part 5.0 yellow	1254184
single-part - 6.0 m yellow webbing	WTK 500 single-part 6.0 yellow	1254978
single-part - 8.0 m yellow webbing	WTK 500 single-part 8.0 yellow	1254980
with end-fitting 002 - pointed hook		
two-part – FE 0.2 m + LE 0.8 m yellow webbing	WTK 500-002 0.2+0.8 yellow	1253680
two-part – FE 0.2 m + LE 1.8 m yellow webbing	WTK 500-002 0.2+1.8 yellow	1251366
two-part – FE 0.2 m + LE 2.8 m yellow webbing	WTK 500-002 0.2+2.8 yellow	1253686
two-part – FE 0.2 m + LE 3.8 m yellow webbing	WTK 500-002 0.2+3.8 yellow	1251344
two-part – FE 0.5 m + LE 1.5 m yellow webbing	WTK 500-002 0.5+1.5 yellow	1253694
two-part – FE 0.5 m + LE 2.5 m yellow webbing	WTK 500-002 0.5+2.5 yellow	1253700
two-part – FE 0.5 m + LE 3.5 m yellow webbing	WTK 500-002 0.5+3.5 yellow	1250002
two-part – FE 0.5 m + LE 4.5 m yellow webbing	WTK 500-002 0.5+4.5 yellow	1253701
two-part – FE 0.5 m + LE 5.5 m yellow webbing	WTK 500-002 0.5+5.5 yellow	1253702
with end-fitting 382 - for airline lashing tracks and safety seam to prevent slipping of the loose end out of the ratchet		
two-part – FE 0.2 m + LE 1.9 m blue webbing	WTK 500-382 0.2+1.9 blue SN	1251305

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTK 350 clamp lock lashing strap

- Lashing capacity LC 175 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- [Tensioning element clamp lock 804](#)
- Strap 25 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 350 daN from Page 98.



Standard version	Short designation	Item No.
single-part - 1.0 m yellow webbing	WTK 350 single-part 1.0 yellow	1253665
single-part - 2.0 m yellow webbing	WTK 350 single-part 2.0 yellow	1253672
single-part - 3.0 m yellow webbing	WTK 350 single-part 3.0 yellow	1253673
single-part - 4.0 m yellow webbing	WTK 350 single-part 4.0 yellow	1253674
single-part - 5.0 m yellow webbing	WTK 350 single-part 5.0 yellow	1253675
single-part - 6.0 m yellow webbing	WTK 350 single-part 6.0 yellow	1253676
single-part - 8.0 m yellow webbing	WTK 350 single-part 8.0 yellow	1253678
with end-fitting 002 - pointed hook		
two-part – FE 0.2 m + LE 0.8 m yellow webbing	WTK 350-002 0.2+0.8 yellow	1252504
two-part – FE 0.2 m + LE 1.8 m yellow webbing	WTK 350-002 0.2+1.8 yellow	1252505
two-part – FE 0.2 m + LE 2.8 m yellow webbing	WTK 350-002 0.2+2.8 yellow	1252511
two-part – FE 0.2 m + LE 3.8 m yellow webbing	WTK 350-002 0.2+3.8 yellow	1252512
two-part – FE 0.5 m + LE 1.5 m yellow webbing	WTK 350-002 0.5+1.5 yellow	1252520
two-part – FE 0.5 m + LE 2.5 m yellow webbing	WTK 350-002 0.5+2.5 yellow	1252526
two-part – FE 0.5 m + LE 3.5 m yellow webbing	WTK 350-002 0.5+3.5 yellow	1252527
two-part – FE 0.5 m + LE 4.5 m yellow webbing	WTK 350-002 0.5+4.5 yellow	1252528
two-part – FE 0.5 m + LE 5.5 m yellow webbing	WTK 350-002 0.5+5.5 yellow	1252529

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTS 1000 overcenter lock lashing strap

- Lashing capacity LC 500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- [Tensioning overcenter lock 912](#)
- Strap 50 mm – durable due to PU coated webbing (PES)

End-fittings:



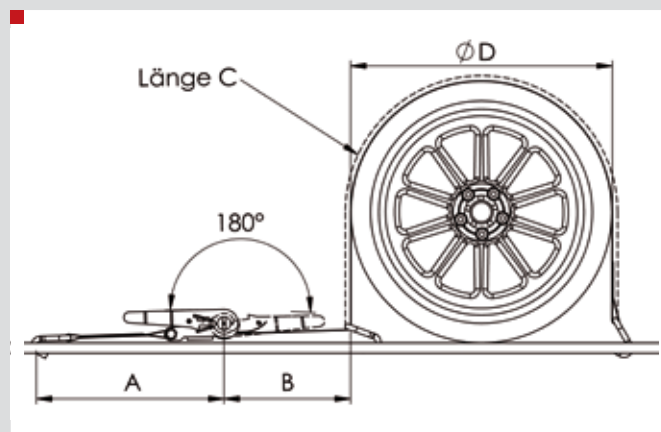
You can find additional end-fittings with a minimum breaking force MBL 1,000 daN from Page 98.



Standard version	Short designation	Item No.
single-part - 1.0 m green webbing	WTS 1000 single-part 1.0 green	1505332
single-part - 2.0 m green webbing	WTS 1000 single-part 2.0 green	1505339
single-part - 3.0 m green webbing	WTS 1000 single-part 3.0 green	1505340
single-part - 4.0 m green webbing	WTS 1000 single-part 4.0 green	1505341
single-part - 5.0 m green webbing	WTS 1000 single-part 5.0 green	1505342
single-part - 6.0 m green webbing	WTS 1000 single-part 6.0 green	1505343
single-part - 8.0 m green webbing	WTS 1000 single-part 8.0 green	1505345
with end-fitting 826 - anchor combi end-fitting		
two-part – FE 0.5 m + LE 1.5 m green webbing	WTS 1000-826 0.5+1.5 green	1505114
two-part – FE 0.5 m + LE 2.5 m green webbing	WTS 1000-826 0.5+2.5 green	1505120
two-part – FE 0.5 m + LE 3.5 m green webbing	WTS 1000-826 0.5+3.5 green	1505121
two-part – FE 0.5 m + LE 4.5 m green webbing	WTS 1000-826 0.5+4.5 green	1505122
two-part – FE 0.5 m + LE 5.5 m green webbing	WTS 1000-826 0.5+5.5 green	1505123
two-part – FE 1.0 m + LE 3.0 m green webbing	WTS 1000-826 1.0+3.0 green	1505144
two-part – FE 1.0 m + LE 4.0 m green webbing	WTS 1000-826 1.0+4.0 green	1505146
two-part – FE 1.2 m + LE 2.4 m green webbing	WTS 1000-826 1.2+2.4 green	1508005

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

Car transportation 3-point lashing straps



All WISTRA car transportation 3-point lashing straps are designed, produced and tested in accordance with the lashing belt standard EN 12195-2:current status. Additionally, the specifications of VDI 2700, Page 8, are observed.

The lengths of the fixed ends with fabric result from the minimum length of the seams.

The fixed ends consisting of the ratchet and bolted hooks form a compact unit.

Please consider the outer dimension of the tyres when selecting the length of the loose end.

If the loose end is too short, not enough fabric might be wound onto the roll shaft, causing the fabric to slide out again. If the fixed end is

placed too close to the tyre, tensioning is still possible, but opening the ratchet by throwing the lever by 180° will be impossible.

Determining the length with WIS-WTA 3-point car transportation lashing straps

Fixed end			Loose end					
Total tyre \varnothing	DP hook up to roll shaft	Dimension A	Roll shaft section Fabric length (2 ¼ turns)	Dimension B Section Length of lever approx.	Dimension C			= Length Loose end
					Tyre section			
					+1 x vertical length	half a tyre Circumference	+1 x vertical length	
50 cm			27 cm	20 cm	25 cm	79 cm	25 cm	176 cm
60 cm			27 cm	20 cm	30 cm	94 cm	30 cm	201 cm
70 cm			27 cm	20 cm	35 cm	110 cm	35 cm	227 cm
71 cm	e.g. FE 0,3 m	35 cm	27 cm	20 cm	36 cm	112 cm	36 cm	230 cm
75 cm			27 cm	20 cm	38 cm	118 cm	38 cm	240 cm
79 cm	e.g. FE 0,3 m	35 cm	27 cm	20 cm	40 cm	124 cm	40 cm	250 cm
85 cm			27 cm	20 cm	43 cm	134 cm	43 cm	266 cm
90 cm	e.g. FE 0,3 m	35 cm	27 cm	20 cm	45 cm	141 cm	45 cm	278 cm
100 cm			27 cm	20 cm	50 cm	157 cm	50 cm	304 cm

To open the ratchet, the lever must be opened to approximately 180°!

Should the fixed end be hooked in at a greater distance, dimension B enlarges, and the loose end is then only suitable for smaller tyre dimensions.

e.g.

79 cm	e.g. FE 0,3 m	35 cm	27 cm	20 cm	40 cm	124 cm	40 cm	250 cm
↓				↓				
71 cm	e.g. FE 0,3 m	35 cm	27 cm	40 cm	36 cm	112 cm	36 cm	250 cm

WISTRA WTA 3908 pressure ratchet lashing strap

- Normal tension force S_{TF} 240 daN for normal hand force S_{HF} 50 daN
- Lashing capacity LC 1,500 daN in straight tension
- Version according to VDI 2700 Sheet 8 - stretch 4%, manufactured and tested according to EN 12195-2: current version
- Tensioning element ratchet 908
- Blue strap 35 mm – durable due to PU coated webbing (PES)



End-fittings:



520



356



354

You can find additional end-fittings with a minimum breaking force MBL 3,000 daN from Page 98.

Type	Ratchet	Strap slider type	FE hook	Hook loose	Loose end	Length FE	Length LE	Item No.
WTA 3	908	A35	520	520	520	0,2 m	2,3 m	1350189
WTA 3	908	A35	520	520	520	0,2 m	2,5 m	1358778
WTA 3	908	A35	520	520	520	0,2 m	2,8 m	1350190

Type	Ratchet	Strap slider type	FE hook	Hook loose	Loose end	Length FE	Length LE	Item No.
WTA 3	908	E35	520	520	520	0,2 m	2,3 m	1350239
WTA 3	908	E35	520	520	520	0,2 m	2,5 m	1358779
WTA 3	908	E35	520	520	520	0,2 m	2,8 m	1350240

Type	Ratchet	Strap slider type	FE hook	Hook loose	Loose end	Length FE	Length LE	Item No.
WTA 3	908	A35	356	354	354	FE	2,3 m	1358780
WTA 3	908	A35	356	354	354	FE	2,5 m	1358781
WTA 3	908	A35	356	354	354	FE	2,8 m	1358782

Type	Ratchet	Strap slider type	FE hook	Hook loose	Loose end	Length FE	Length LE	Item No.
WTA 3	908	E35	356	354	354	FE	2,3 m	1358784
WTA 3	908	E35	356	354	354	FE	2,5 m	1358783
WTA 3	908	E35	356	354	354	FE	2,8 m	1351021

Strap slider

Type A35	Type B50	Type C50	Type D50	Type E35

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTA 3821 pressure ratchet lashing strap

- Normal tension force S_{TF} 240 daN for normal hand force S_{HF} 50 daN
- Lashing capacity LC 1,500 daN in straight tension
- Version according to VDI 2700 Sheet 8 - stretch \leq 4%, manufactured and tested according to EN 12195-2: current version
- Tensioning element ratchet 821
- Blue strap 50 mm – durable due to PU coated webbing (PES)



Type	Ratchet	Strap slider type	FE hook	Hook loose	Length FE	Length FE	Length LE	Item No.
WTA 3	821	A50	006	006	006	0,2 m	2,3 m	1509878
WTA 3	821	A50	006	006	006	0,2 m	2,5 m	1358785
WTA 3	821	A50	006	006	006	0,2 m	2,8 m	1509879

Type	Ratchet	Strap slider type	FE hook	Hook loose	Length FE	Length FE	Length LE	Item No.
WTA 3	821	E50	006	006	006	0,2 m	2,3 m	1503178
WTA 3	821	E50	006	006	006	0,2 m	2,5 m	1358786
WTA 3	821	E50	006	006	006	0,2 m	2,8 m	1503179

End-fittings:



Type	Ratchet	Strap slider type	FE hook	Hook loose	Length FE	Length FE	Length LE	Item No.
WTA 3	821	A50	353	351	351	FE	2,3 m	1358787
WTA 3	821	A50	353	351	351	FE	2,5 m	1358788
WTA 3	821	A50	353	351	351	FE	2,8 m	1358789

Type	Ratchet	Strap slider type	FE hook	Hook loose	Length FE	Length FE	Length LE	Item No.
WTA 3	821	E50	353	351	351	FE	2,3 m	1358790
WTA 3	821	E50	353	351	351	FE	2,5 m	1358791
WTA 3	821	E50	353	351	351	FE	2,8 m	1358792

You can find additional end-fittings with a minimum breaking force MBL 3,000 daN from Page 98.

Strap slider

Type A50	Type B50	Type C50	Type D50	Type E50

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA WTA 3821HQ pressure ratchet lashing strap

- Normal tension force S_{TF} 240 daN for normal hand force S_{HF} 50 daN
- Lashing capacity LC 1,500 daN in straight tension
- Version according to VDI 2700 Sheet 8 - stretch 4%, manufactured and tested according to EN 12195-2: current version
- Tensioning element ratchet 821
- **Blue strap 50 mm – PU-coated high-quality polyester fabric (PES), edges reinforced with Cordgarn**
- With inside norm label and additional quick-view label



Type	Ratchet	Webbing	Strap slider type	FE hook	Hook loose	Hook loose	Length FE	Length LE	Item No.
WTA 3	821	HQ	A	006	006	006	0,3 m	2,3 m	1358794
WTA 3	821	HQ	A	006	006	006	0,3 m	2,5 m	1358793
WTA 3	821	HQ	A	006	006	006	0,3 m	2,8 m	1358795

Type	Ratchet	Webbing	Strap slider type	FE hook	Hook loose	Hook loose	Length FE	Length LE	Item No.
WTA 3	821	HQ	E	006	006	006	0,3 m	2,3 m	1358796
WTA 3	821	HQ	E	006	006	006	0,3 m	2,5 m	1358797
WTA 3	821	HQ	E	006	006	006	0,3 m	2,8 m	1358798

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 3,000 daN from Page 98.

Type	Ratchet	Webbing	Strap slider type	FE hook	Hook loose	Hook loose	Length FE	Length LE	Item No.
WTA 3	821	HQ	A	353	351	351	FE	2,3 m	1358799
WTA 3	821	HQ	A	353	351	351	FE	2,5 m	1358800
WTA 3	821	HQ	A	353	351	351	FE	2,8 m	1358801

Type	Ratchet	Webbing	Strap slider type	FE hook	Hook loose	Hook loose end	Length FE	Length LE	Item No.
WTA 3	821	HQ	E	353	351	351	FE	2,3 m	1358802
WTA 3	821	HQ	E	353	351	351	FE	2,5 m	1358803
WTA 3	821	HQ	E	353	351	351	FE	2,8 m	1509711

Strap slider

Type A50	Type B50	Type C50	Type D50	Type E50

With Quick View Label



Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA car transportation pressure ratchet lashing straps

- Ratchet 917 Normal tension force S_{TF} 200 daN for normal hand force S_{HF} 50 daN
- Ratchet 908 Normal tension force S_{TF} 240 daN for normal hand force S_{HF} 50 daN
- Lashing capacity LC 1,000 daN in straight tension
- manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 917/908
- Strap 35 mm – durable due to PU coated webbing (PES)
- Blue webbing
- Can be supplied with factory certificate / test certificate

Accessories



Label cover

WISTRA WTA 2135 pressure ratchet lashing strap

- Stand version with traverse arch (flemish bend)

WISTRA WTA 2235 pressure ratchet lashing strap

- Standard version with rim sling

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 2,000 daN from Page 98.

WISTRA WTA 2135 pressure ratchet lashing strap



Type	Ratchet	Protection	End-fitting Fixed end	Traverse arch	End-fitting Loose end	Length Fixed end	Length Loose end	Item No.
Standard version with traverse arch (flemish bend) 350 mm long								
WTA 2	917	035	520	888	520	0.2 m	2.5 m	1358741
WTA 2	917	035	536	888	536	0.2 m	2.5 m	1357412
Special version with traverse arch (flemish bend) 350 - 800 mm long								
WTA 2	917	035	520	877	520	0.2 m	2.5 m	1350023
WTA 2	917	035	536	877	536	0.2 m	2.5 m	1350024

WISTRA WTA 2235 pressure ratchet lashing strap



Type	Ratchet	Protection	End-fitting Fixed end	End-fitting central	End-fitting Loose end	Length Fixed end	Length Loose end	Item No.
WTA 2	917	B35	536	536	015	0.2 m	1.5 m	1350025
WTA 2	908	B35	371	536	015	FE	1.5 m	1351235

Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request.

WISTRA Motorcycle pressure ratchet lashing straps

- Ratchet 909 Normal tension force S_{TF} 200 daN for normal hand force S_{HF} 50 daN
- Ratchet 917 Normal tension force S_{TF} 200 daN for normal hand force S_{HF} 50 daN
- Ratchet 908 Normal tension force S_{TF} 240 daN for normal hand force S_{HF} 50 daN
- Lashing capacity LC 1,000 daN/ 1,500 daN in straight tension
- manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 909 / 917/908
- Strap 25mm/ 35 mm – durable due to PU coated webbing (PES)
- 25 mm fabric width, red, Lashing capacity LC 500 daN in straight tension, 400 daN in choke hitch; elongation $\leq 7\%$ at max. LC
- 35 mm fabric width, orange, Lashing capacity LC 1000 daN in straight tension, 800 daN in choke hitch; elongation $\leq 7\%$ at max. LC
- 35 mm fabric width, blue, Lashing capacity LC 1500 daN in straight tension, 1200 daN in choke hitch; elongation $\leq 4\%$ at max. LC



WTA 1335-002 999 A1 + WTA 1335-002 H1 red

WISTRA WTA A1

- 1 set – 2 x two-part lashing strap in PVC hose counter-directional function
- Fixed end with end-fitting ...
- Loose end with return loop type C-200 mm

WISTRA WTA H1

- single-part lashing strap
- Fixed end part with end-fitting ...
- Loose end part, endless

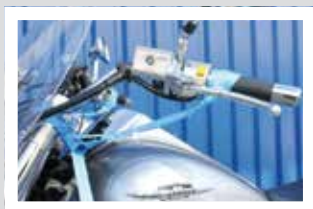
WISTRA WTA H2

- Single-part lashing strap
- Fixed end part with end-fitting ...
- Loose end with return loop type C-200 mm

End-fittings:



You can find additional end-fitting from Page 98.

WISTRA WTA A1

Type	FE End-fitting	LE End-fitting	Hose	Webbing colour	LC straight tension	Length FE	Length LE	Item No.
WTA 1335	002	999C-200 mm	A1 PVC hose	red	500 daN	0.2 m	2.8 m	1250047
WTA 1335	311	999C-200 mm	A1 PVC hose	red	500 daN	0.2 m	2.8 m	1250048
WTA 2335	520	999C-200 mm	A1 PVC hose	orange	1000 daN	0.2 m	2.8 m	1350055
WTA 2335	311	999C-200 mm	A1 PVC hose	orange	1000 daN	0.2 m	2.8 m	1350056
WTA 3335	520	999C-200 mm	A1 PVC hose	blue	1500 daN	0.2 m	2.8 m	1350111
WTA 3335	530	999C-200 mm	A1 PVC hose	blue	1500 daN	0.2 m	2.8 m	1350057

WISTRA WTA H1

Type	FE part EB	LE End-fitting	Hose	Strap colour	LC straight tension	Length FE	Length LE	Item No.
WTA 1335	002	endless	without	red	500 daN	0.2 m	3.6 m	1250049
WTA 1335	311	endless	without	red	500 daN	0.2 m	3.6 m	1250051
WTA 2335	520	endless	without	orange	1000 daN	0.2 m	3.6 m	1350004
WTA 2335	311	endless	without	orange	1000 daN	0.2 m	3.6 m	1350058
WTA 3335	520	endless	without	blue	1500 daN	0.2 m	3.6 m	1350061
WTA 3335	530	endless	without	blue	1500 daN	0.2 m	3.6 m	1350062

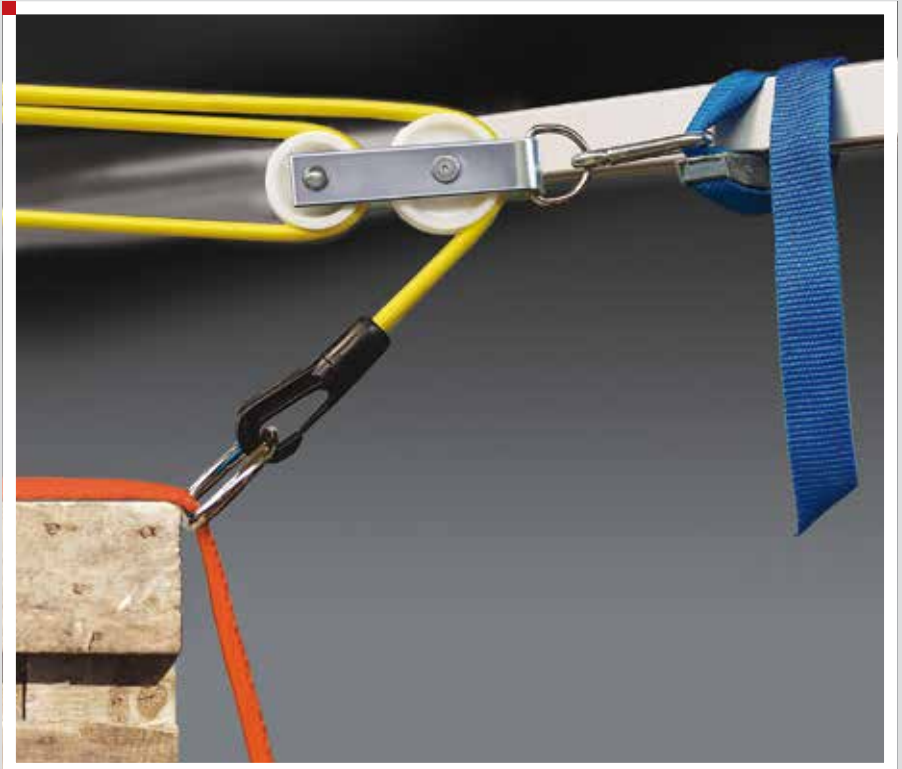
WISTRA WTA H2

Type	FE End-fitting	LE End-fitting	Hose	Webbing colour	LC straight tension	Length FE	Length LE	Item No.
WTA 1335	002	999C-200 mm	without	red	500 daN	0.2 m	1.8 m	1250052
WTA 1335	311	999C-200 mm	without	red	500 daN	0.2 m	1.8 m	1250053
WTA 2335	520	999C-200 mm	without	orange	1000 daN	0.2 m	1.8 m	1350059
WTA 2335	311	999C-200 mm	without	orange	1000 daN	0.2 m	1.8 m	1350060
WTA 3335	520	999C-200 mm	without	blue	1500 daN	0.2 m	1.8 m	1350063
WTA 3335	530	999C-200 mm	without	blue	1500 daN	0.2 m	1.8 m	1350064

Lashing lift system

A significant time reduction system for the professional load securing!

- no need to climb on the loading area
- easy positioning of the tensioning strap from the ground
- no separate fixing of the straps in the hooks
- no more throwing of the straps over the load
- time saving by more than 50 %



Designation	Unit of quantity	Item No.
Lashing lift system for „Hamburger Verdeck“	Set for 6 pieces of lashing straps	160101
	Set for 12 pieces of lashing straps	160103
Lashing lift system for „Schiebeverdeck“	Set for 6 pieces of lashing straps	160100
	Set for 12 pieces of lashing straps	160102



„LadeBOX“



- Sendzimir-galvanised 1 mm-thick steel sheet
- Lid powder-coated in RAL 9016 / other RAL colours at surcharge
- Easy to open with patented PK3000 lid guide system
- Lid can be slid in at the bottom
- 2 × PK locks on the sides
- 3 × buckles for fastening in the EK 1000
- Easy installation without drilling with 3 supplied buckles and 2 set screws in the spare wheel cradle EK 1000

„LadeBOX“insert

- 2 drawer troughs with ball bearing guides for up to 20 lashing straps and 20 ratchets, galvanised
- variable partition walls, galvanised
- 2 × plastic containers 600 × 400 × 130 mm for 60 anti-slip mats and up to 26 edge protectors
- one OSB plate 400 × 930 mm
- Optional: Battery-powered magnetic LED lamp (batteries not included in scope of supply)

LADE
PARTNER by

HS Schoch + **WISTRA**
LKW-Zubehör/Truckstyling CARGO CONTROL

Designation	Unit of quantity	Item No.
„Ladebox“ set, type A Consisting of: 20 × WTL 5550-046 FE 0.5 m + LE 7.5 m blue with QuickView label + print LE „Ladepartner“ 40 × edge protectors red 50 mm heavy load 60 × anti-slip mats 200 × 8 × 300 mm 2 × round slings 3,000 kg, yellow, 3.0 m circumference	Set	190001
„Ladebox“ set, type Construction Consisting of: 20 × WTL 5550-046 FE 0.5 m + LE 7.5 m blue with QuickView label + print LE „Ladepartner“ 26 × edge protectors orange, 190 × 190 mm, length approx. 800 mm 60 × anti-slip mats 200 × 8 × 300 mm 2 × round slings 3,000 kg, yellow, 3,0 m circumference	Set	190002
„Ladebox“ for PK 3000 consisting of: 2 × drawer troughs with ball bearing guides 2 × plastic containers 600 × 400 × 130 mm	Set	1921001421
„Ladebox“ spare wheel cradle EK 1000 frame Powder coated Height 490 mm, 30 µm +/-10% Without accessories Including clamping claws M16 screws not included in scope of supply	Pieces	1921006120
„Ladebox“ LED lamp Ø 135 mm magnetic	Pieces	1936745130
„Ladebox“ plastic container Grated, 600 × 400 × 130 mm	Pieces	1970305050
Steel „Ladebox“ for EK 1000 1,080 × 450 × 965 mm With 1 × lid, can be slid in at the bottom Standard colour RAL 9016 With 2 × PK locks on the sides With 3 × buckles for fastening in the EK 1000 2 × drawer troughs with ball bearing guides 2 × plastic containers 600 × 400 × 130 mm Load maximum 130 kg in EK 1000 Net weight approx. 75 kg	Pieces	1971701080



LadeBOX EK1000 (without load securing sets)



LadeBOX insert PK3000

WISTRA lashing strap accessories

Edge protection 5500



Material: Plastic
Colour: black
Weight: 0.250 kg

Designation	Unit of quantity	Item No.
Edge protection black 50 mm	Pieces	165500000040

Edge protection 6660



Material: Plastic
Colour: red
Weight: 0.205 kg

Designation	Unit of quantity	Item No.
Edge protection red 50 mm	Pieces	166600000040

Edge protection 7000



Material: steel
Colour: steel, galvanised
Weight: 0.380 kg

Designation	Unit of quantity	Item No.
Edge protection steel 50 mm	Pieces	167000000012

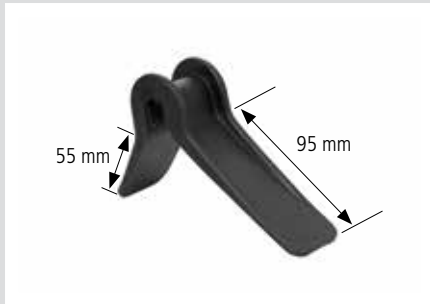
Edge protection 2200



Material: Polyethylene
Colour: white
Weight: 0.060 kg

Designation	Unit of quantity	Item No.
Edge protection white 50 mm open	Pieces	162200000240

Edge protection 2500

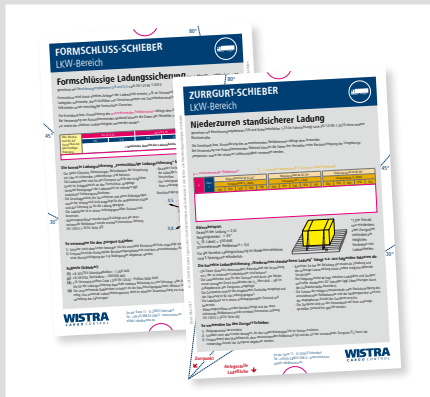


Material: Plastic
Colour: black

Weight: 0.025 kg

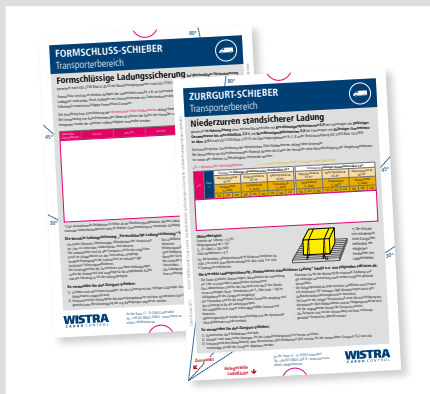
Designation	Unit of quantity	Item No.
Edge protection black 25 mm	Pieces	162500000040

WIS-Lashing strap slider/WIS-Form-fit slider for trucks



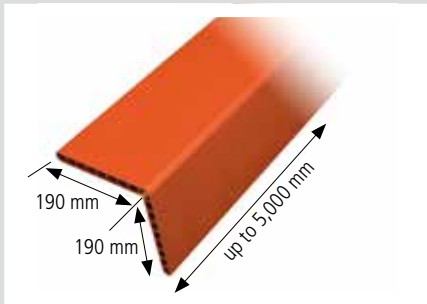
Designation	Unit of quantity	Item No.
WIS-Lashing strap slider/WIS-Form-fit slider for LKW	Pieces	160028

WIS-Lashing strap slider/WIS-Form-fit slider for transporters



Designation	Unit of quantity	Item No.
WIS-Lashing strap slider/WIS-Form-fit slider for transporters	Pieces	160027

Edge protection 3000

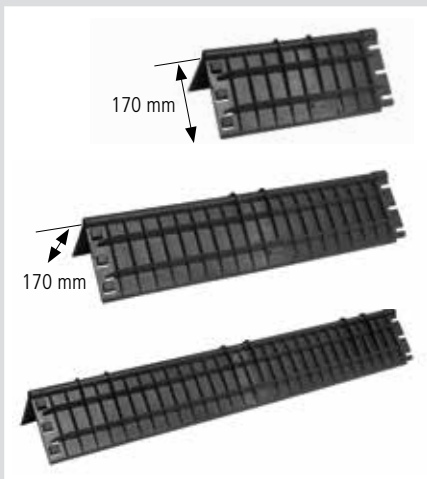


Material: Plastic
Colour: orange

Weight: 2.510 kg/m
Length: up to 5,000 mm

Designation	Unit of quantity	Item No.
Edge protection 190x190 orange 500 mm	Pieces	16300040-0500
Edge protection 190x190 orange 750 mm	Pieces	16300040-0750
Edge protection 190x190 orange 800 mm	Pieces	16300040-0800
Edge protection 190x190 orange 1000 mm	Pieces	16300040-1000
Edge protection 190x190 orange 1,200 mm	Pieces	16300040-1200
Edge protection 190x190 orange 2,000 mm	Pieces	16300040-2000
Edge protection 190x190 orange 2,400 mm	Pieces	16300040-2400
Edge protection 190x190 orange 2,500 mm	Pieces	16300040-2500
Edge protection 190x190 orange 3,000 mm	Pieces	16300040-3000
Edge protection 190x190 orange 4,000 mm	Pieces	16300040-4000
Edge protection 190x190 orange 5,000 mm	Pieces	163000000040

Edge protection „Connect 1616“



Material: Plastic
Colour: black

Weight: 1.4 kg/m

Designation	Length	Unit of quantity	Item No.
Edge protection „Connect 1616“	400 mm	Pieces	1616040
Edge protection „Connect 1616“	800 mm	Pieces	1616080
Edge protection „Connect 1616“	1,200 mm	Pieces	1616120

Special feature: The different lengths can be easily combined and connected with each other, and just as easily taken apart again.



Edge protection flat profile 3006



Material: Plastic
Colour: blue/black

Weight: 1.000 kg/m
Length: up to 4,800 mm

Designation	Unit of quantity	Item No.
Edge protection flat profile 190x190 blue/black 2,000 mm	Pieces	163006190-0500
Edge protection flat profile 190x190 blue/black 2,000 mm	Pieces	163006190-0800
Edge protection flat profile 190x190 blue/black 1,000 mm	Pieces	163006190-1000
Edge protection flat profile 190x190 blue/black 1,200 mm	Pieces	163006190-1200
Edge protection flat profile 190x190 blue/black 2,000 mm	Pieces	163006190-2000
Edge protection flat profile 190x190 blue/black 2,400 mm	Pieces	163006190-2400
Edge protection flat profile 190x190 blue/black 2,500 mm	Pieces	163006190-2500
Edge protection flat profile 190x190 blue/black 3,000 mm	Pieces	163006190-3000
Edge protection flat profile 190x190 blue/black 4,000 mm	Pieces	163006190-4000
Edge protection flat profile 190x190 blue/black 6,000 mm	Pieces	163006190-4800

Other lengths available on request.

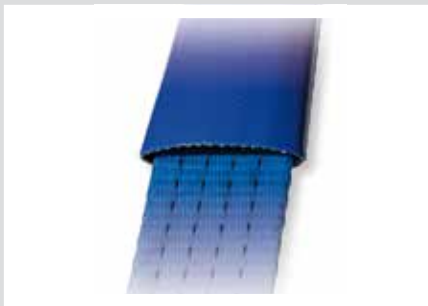
Ratchet base



Material: Plastic

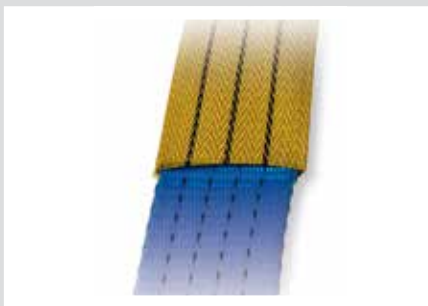
Designation	Unit of quantity	Item No.
Edge protection/ratchet base 50 mm	Pieces	163001
Edge protection/ratchet base 50 mm, slotted	Pieces	163003

Edge protection hose, rubberised



Designation	Unit of quantity	Item No.
Edge protection hose 35 mm blue rubberised	m	161021000040
Edge protection hose 50 mm blue rubberised	m	161020000040

Edge protection hose, polyester



Designation	Unit of quantity	Item No.
Edge protection hose 35 mm PES violet	m	161021000072
Edge protection hose 50 mm PES yellow	m	161020000071
Edge protection hose 50 mm PES orange	m	161030000071
Edge protection hose 50 mm PES black	m	161020000171
Edge protection hose 50 mm PES natural white	m	1610271

Edge protection controller, profiled rubber hose



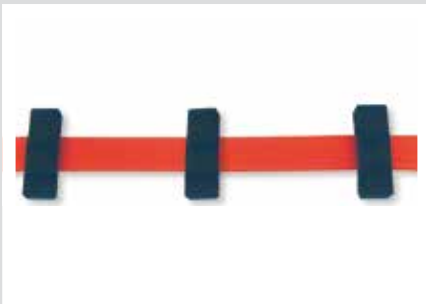
Designation	Unit of quantity	Item No.
Edge protection controller 35 mm rubber 700 mm	Pieces	161035000041
Edge protection controller 50 mm rubber 700 mm	Pieces	161020000041

Edge protection controller



Designation	Unit of quantity	Item No.
Edge protection controller 50 mm rubber/textile 800 mm	Pieces	165070-800
Edge protection controller 50 mm rubber/textile 1200 mm	Pieces	165070-1200

Abrasion protection block



Material: Plastic
Colour: black

Designation	Unit of quantity	Item No.
Edge protection abrasion protection 35 mm for WTRA	Pieces	161035000040
Edge protection abrasion protection 50 mm for WTRA	Pieces	161050000040

Label protection



Designation	Unit of quantity	Item No.
Label protection for lashing straps 35 mm and 50 mm - 100 mm long	Pieces	160010000000
Label protection for lashing straps 35 mm and 50 mm - 250 mm long	Pieces	160004

Parking device



Designation	Unit of quantity	Item No.
Fixed end parking device roof bar	Pieces	1250011

PlaPla® Tarpaulin Patch

PlaPla® Tarpaulin Patch "Garage" 1.0 m x 1.0 m



- packed in a box
- UV-stable, extremely tear-proof, self-adhesive on one side
- TÜV-tested in accordance with DIN EN 12641-2 and BKTex (2008/5)
- for use in the workshop
- moisture-resistant and suited for car washes
- Application in just 4 steps: Clean, cut to size, activate adhesive, stick on patch
- Application fields: Tears, holes, cuts, other damage

PlaPla® Tarpaulin Patch "Road" 0.4 m x 1.0 m



- packed as a set with scissors and cleaner in a sleeve
- UV-stable, extremely tear-proof, self-adhesive on one side
- TÜV-tested in accordance with DIN EN 12641-2 and BKTex (2008/5)
- for mobile use on the road
- moisture-resistant and suited for car washes
- Application in just 4 steps: Clean, cut to size, activate adhesive, stick on patch
- Application fields: Tears, holes, cuts, other damage

PlaPla® Tarpaulin Patch "Shop" 0.2 m x 0.3 m



- packed in foil with hanger
- UV-stable, extremely tear-proof, self-adhesive on one side
- TÜV-tested in accordance with DIN EN 12641-2 and BKTex (2008/5)
- for leisure time and domestic use
- moisture-resistance and suited for car washes
- Application in just 4 steps: Clean, cut to size, activate adhesive, stick on patch
- Application fields: Tears, holes, cuts, other damage

Application



1. Initial situation:



2. Clean



3. Cut to size



4. Activate adhesive



5. Stick on patch



6. Done!

Colour	PlaPla® tarpaulin patch Garage Item no.	PlaPla® tarpaulin patch Road Item no.	PlaPla® tarpaulin patch Shop Item no.
Gentian-blue RAL 5010	1640100	1640126	1640152
Greenish yellow RAL 6018	1640101	1640127	1640153
Bright orange RAL 2008	1640102	1640128	1640154
Crimson red RAL 3002	1640103	1640129	1640155
Light blue RAL 5012	1640104	1640130	1640156
Light grey RAL 7035	1640105	1640131	1640157
Mint green RAL 6029	1640106	1640132	1640158
Moss green RAL 6005	1640107	1640133	1640159
Opal green RAL 6026	1640108	1640134	1640160
Signal yellow RAL 1003	1640109	1640135	1640161
Pearl white RAL 1013	1640110	1640136	1640162
Rape yellow RAL 1021	1640111	1640137	1640163
Deep orange RAL 2011	1640112	1640138	1640164
Pure orange RAL 2004	1640113	1640139	1640165
Pure white RAL 9010	1640114	1640140	1640166
Chocolate RAL 8017	1640115	1640141	1640167
Signal blue RAL 5005	1640116	1640142	1640168
Silver RAL 9006	1640117	1640143	1640169
Emerald green RAL 6001	1640118	1640144	1640170
Telemagenta RAL 4010	1640119	1640145	1640171
Deep black RAL 9005	1640120	1640146	1640172
Turquoise blue RAL 5018	1640121	1640147	1640173
Ultramarine blue RAL 5002	1640122	1640148	1640174
Traffic red RAL 3020	1640123	1640149	1640175
Traffic black RAL 9017	1640124	1640150	1640176
Zinc yellow RAL 1018	1640125	1640151	1640177

LaSi GRIPTex

- innovative non-skid material with placement indicator (imprint)
- tested in accordance with VDI 2700, page 14
- multiply applicable
- low inherent weight (approx. 1.1 kg/m²)
- odourless
- tear-proof and recyclable
- applicable at a temperature range of -30°C/+80°C
- determination of friction coefficient
 - EUR-pallet made of wood (new), on silkscreen printed base (new), tested in longitudinal and lateral direction to the EUR-pallet
 - Contact surfaces dry and clean swept
 - Friction coefficient, μ 0.68 longitudinally, μ 0.72 laterally



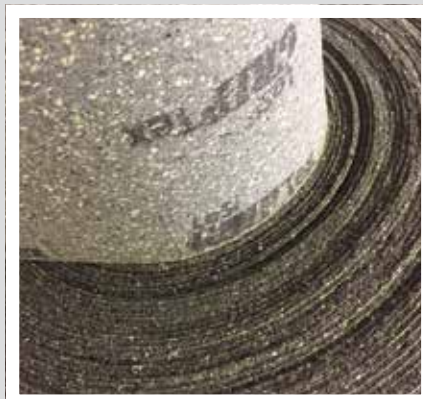
LaSi GRIPTex Pads

For individual use.



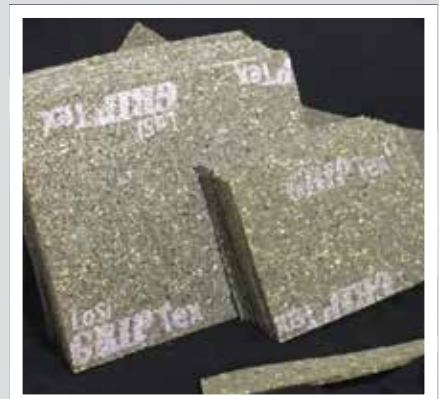
LaSi GRIPTex Rolls

For fast application on the loading area.



LaSi GRIPTex Universal

Different sizes for your specific application.



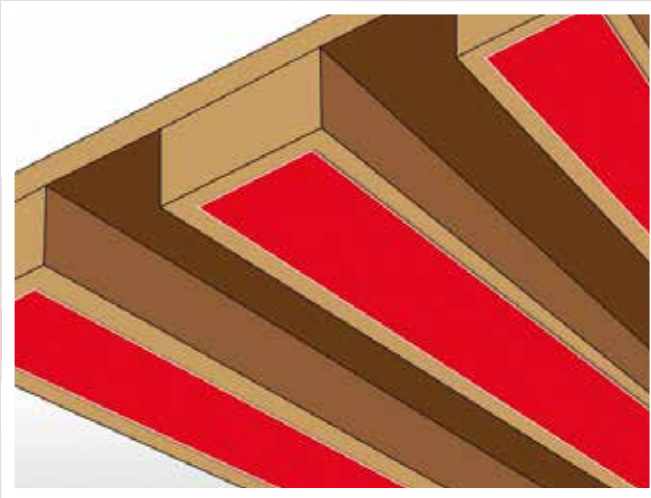
LaSi GRIPTex Pads

Dimensions	Packaged units per pallet	Weight (kg) per pallet	Item no.
150 x 200 x 4 mm	3,600	108	16140001
150 x 600 x 4 mm	1,200	120	16140002
150 x 750 x 4 mm	800	100	16140003
150 x 1,150 x 4 mm	600	120	16140004

LaSi GRIPTex Rolls

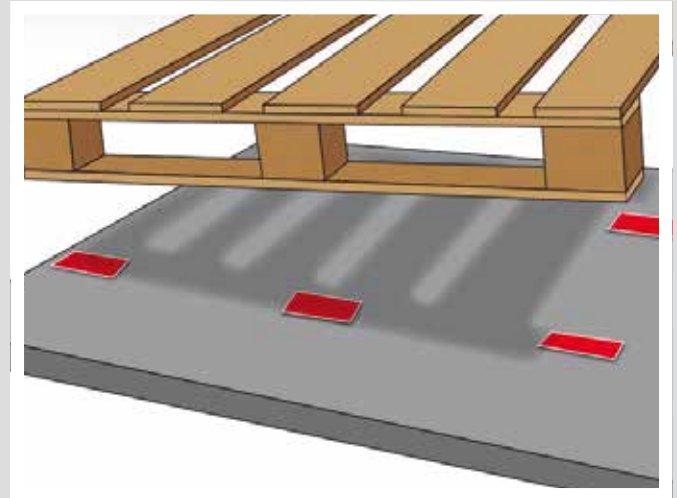
Dimensions	Packaged units per pallet	Weight (kg) per pallet	Item no.
150 x 13,500 x 4 mm	70	160	16140008
150 x 25,000 x 4 mm	56	187	16140005
200 x 13,500 x 4 mm	80	155	16140009
200 x 25,000 x 4 mm	40	280	16140006
1,000 x 25,000 x 4 mm	8	220	16140007

Special dimensions on request



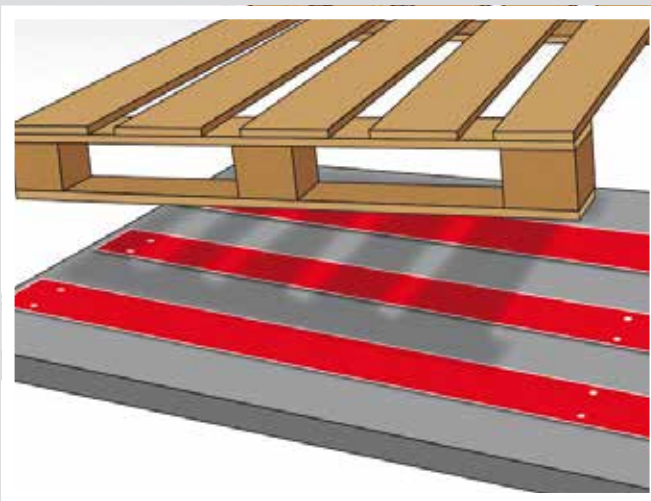
Solidly bonded to the pallet

LaSi GRIPTex can be attached to the bottom side of a pallet.



Loosely underlaid

LaSi GRIPTex can be loosely placed underneath the packaged unit.



Directly on the loading surface

A solid bond directly on the loading area is also possible. This saves time and already ensures safety during the loading process (danger of crushing).



In the loading unit

LaSi GRIPTex between the packages in the loading unit.

Please note!

In the illustrations, outer packaging and other securing equipment were omitted only for the purpose of displaying the product.

Lashing strap rolling-up system for up to 50 mm wide lashing straps



Designation	Unit of quantity	Item No.
Steel lashing strap rolling-up system, black powder-coated	Pieces	16002000000
NIRO lashing strap rolling-up system	Pieces	16002000030

Slip-resistant material



The slip-resistant mats are used to increase the friction coefficient up to μ_D 0.6 according to the calculation principles DIN EN 12195-1:2004 and VDI 2700 ff.

When they are used, the initial tension forces required according to the calculation for tying down are reduced and in the form-fit area the performance of employed load securing aids as

well as vehicle components used for load securing is increased.

Measuring procedure according to directive "VDI 2700 page 15".

Weights: RH mat 3 mm approx. 3,6 kg/m²,
8 mm approx. 7,2 kg/m²

3 mm RH mats

Designation	Dimensions	Unit of quantity	Item No.
3 mm RH mat	150 mm x 150 mm	Pieces	161503015081
3 mm RH mat	150 mm x 600 mm	Pieces	166003015081
3 mm RH mat	150 mm x 1250 mm	Roll	161503125081
3 mm RH mat	150 mm x 20.000 mm	Roll	161503020081
3 mm RH mat	250 mm x 5.000 mm	Roll	162503500081

8 mm RH mats

Designation	Dimensions	Unit of quantity	Item No.
8 mm RH mat	100 x 2400mm	Pieces	1601008240081
8 mm RH mat	110 x 130 mm	Pieces	161108013081
8 mm RH mat	200 x 300 mm	Pieces	162008030081
8 mm RH mat	250 x 5000 mm	Roll	162508500081
8 mm RH mat	500 x 5.000 mm	Roll	165008500081
8 mm RH mat	1250 x 10.000 mm	Roll	161250810081

Other lengths available on request.

WISTRA Safeguard load securing nets



WISTRA GmbH offers load securing nets in their range of products for more than 20 years.

We offer a multitude of application options - also beyond load securing. The common lashing strap widths 25 mm, 35 mm and 50 mm and the different mesh apertures in combination with connection adapters for the vehicle or trailer, offer a variety of options.

We could implement more than 300 different versions for our customers up to now. The Safeguard load securing nets are planned and manufactured according to customer requirements.

Besides many individual products, customer-specific solutions have proven themselves and have been manufactured more than 10,000 times. The application focuses on the areas:

- Rear load securing in closed structures, different exchangeable containers, containers and special containers
- Side load securing, e.g. for Curtainsider
- Load securing above the goods on the floor and to the sides
- Retaining nets for short-wood transports
- Retaining nets for transporters
- Tie-down load securing nets



All WISTRA Safeguard load securing nets are manufactured and made to customer specifications in our company.

Production, labelling and testing in accordance with VDI Directive 2700 Sheet 3.3 (as well as on the basis of DIN EN 12195-2).



A multitude of implementation options results from this, which must be determined on the basis of many years of experience of WISTRA and based on the requirement profiles of the customers.

The following basic data are to be considered:

- Use, handling and loading specifications
- Mesh aperture and use of webbing
- Quantity and kind of lashing and connecting elements
- Use of linkages
- Use of additional anti-theft-devices

The WISTRA team is at your disposal with many years of experience.

Safeguard load securing nets are manufactured for renowned customers like Deutsche Post, GLS, Hermes and many others and are proven in practice across Europe.

On the following pages you can find a wide selection of net options. Please contact us if these do not meet your requirements.

As mentioned earlier, we also manufacture nets individually in quantities from 1 piece upwards.

WISTRA Safeguard load securing net "QuickKEP"



The innovative QuickKEP safeguard load securing net was designed for **fast** and **safe handling**.

Compared to standard vertical load securing nets, we have not mounted the double airline fitting on the net for the airline lashing track on the net.

Two hooks each are mounted on the vertical aluminium net tubes. These are suspended in the double airline end fittings 380 when inserting and shifting.

The end fittings are vertically inserted in the airline lashing tracks as required with small gaps in between and remain there.

Depending on the requirement, the safeguard load securing net is unhooked by simply lifting the tube and hooked in again at the new desired position. This procedure takes only a few seconds.

As a „door function“, the user only unhooks one net rod assembly and „parks“ this on the other side. This also ensures quick access.

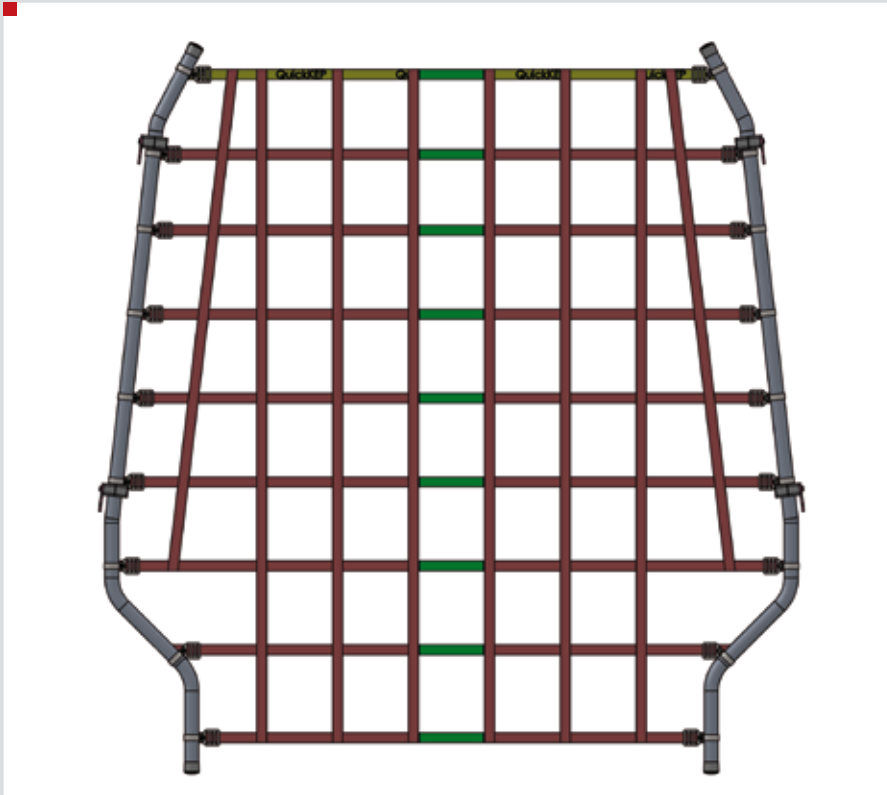
QuickKEP works with the factory-installed 2-level airline lashing track and does not require a costly installation of additional airline lashing tracks on the top and bottom section.

	Advantages		
	for the user	for the transport vehicle/the load	compared to similar products
Rapid shifting of the safeguard load securing net by unhooking and hooking the double airline end fittings located in the airline lashing tracks	X		X
High LC value of the entire net: 600 daN	X	X	X
Usable with a quick-action „door function“	X	X	X
Position of the suspension hooks slightly adjustable in height *)	X	X	X
Easy width adjustment of the net with claps on the pipe *)	X	X	X
The net does not have to be laboriously tightened every time.	X	X	X
Costly installation of additional lashing tracks on the top and bottom section is not required	X	X	X
Thanks to the shape of the tubes, the net can also be used in the wheel housing section.	X	X	X
High-quality 25 mm polyester fabric with MBL 2000 daN for heavy-duty application	X		X
Also available in other net heights and widths as well as tube shapes depending on the body structure.	X	X	X
Customised strap colours and strap imprints possible	X		X
WISTRA spare parts and repair service	X		X

*) Not all Sprinters are fitted with airline lashing tracks in the factory. This results in deviations regarding the design and the position of the airline lashing tracks

WISTRA Safeguard load securing net "QuickKEP"

Design for the Mercedes Sprinter H2



Item No. 27 348 00 000 00

Vertical van safeguard load securing net fabric 25 mm, red, MBL 2000 daN mesh width approximately 165 x 165 mm on both sides with aluminium rod assembly 2 attachment levels for suspension adapted to the contours of the Sprinter H2 LC net attachment point 250 daN LC net total 600 daN

Net height approximately 1700 mm

Lateral attachment

- WIS hook-in fixture for end fitting 380
- Enclosed 16 pcs. EF 380 for airline lashing tracks

Manufactured, labelled and tested in acc. with VDI Directive 2700 Sheet 3.3 (as well as on the basis of DIN EN 12195-2).

WISTRA form-fit calculations

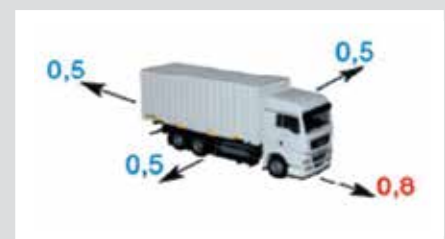
Form-fit load securing

by directly attaching the load unit for instance to the front head wall, side walls, decking beams, shoring beams, cargo bars, cargo against each other, filling of voids with intermediate constructions of other load securing aids as well as slanted / diagonal / horizontal lashings.

- μD = dynamic sliding friction coefficient
- vertical movement of the load units may possibly require additional load securing measures!
- Observe the maximum vehicle load capacity and the allowed load distribution.
- the load units are designed for the possible pressure in the areas where the form-fit attaches!

Form-fit (with even loading) according to DIN EN 12195-1:2004/VDI 2700 ff

- calculated with acceleration coefficient 0.8 and 0.5



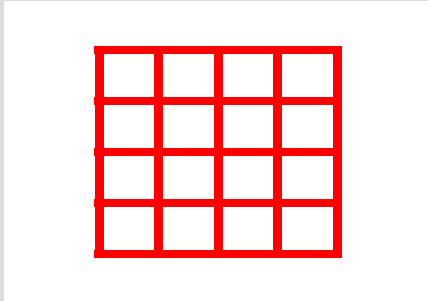
Blocking capacity of the form-fit	Maximum weight of the load unit/s					
	for μD 0,2		for μD 0,4		for μD 0,6	
	0,8	0,5	0,8	0,5	0,8	0,5
600 daN	1,000 kg	2,000 kg	1,500 kg	6,000 kg	3,000 kg	*)

*) The maximum load unit weight is directly related to the maximum load capacity and the allowed load distribution of the vehicle. The acceleration coefficient is smaller than the dynamic sliding friction coefficient μD

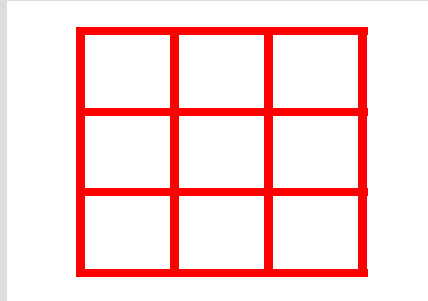
Vertical versions

Standard grid mesh apertures for 25 mm webbing

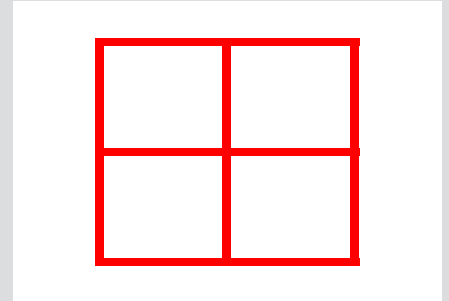
Webbing minimum breaking force 2,000 daN



Mesh aperture 150 mm
Example size 725 mm x 725 mm



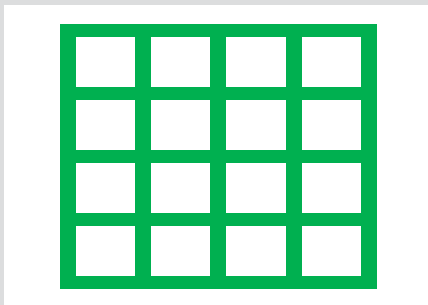
Mesh aperture 250 mm
Example size 850 mm x 850 mm



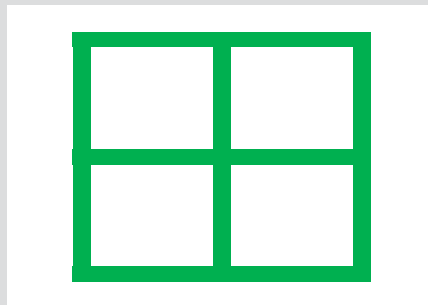
Mesh aperture 350 mm
Example size 775 mm x 775 mm

Standard grid mesh apertures for 50 mm webbing

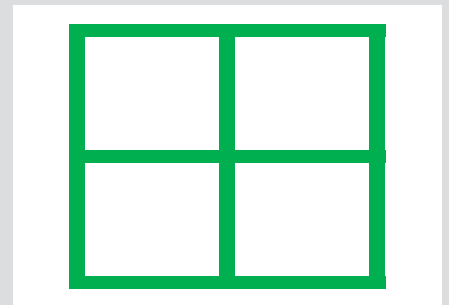
Webbing minimum breaking force 4,000 daN



Mesh aperture 200 mm
Example size 1,050 mm x 1,050 mm



Mesh aperture 350 mm
Example size 850 mm x 850 mm



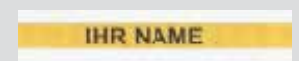
Mesh aperture 450 mm
Example size 1,050 mm x 1,050 mm

Individual mesh apertures are possible, even within a load securing net!

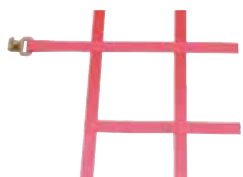
Webbing colours



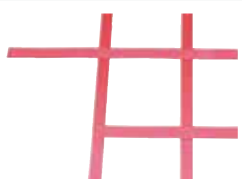
Property marking



Side connecting components

25 mm,
50 mmAttachment, rigid
Length - according to specification

Type A	Type A2
with end-fitting (from Page 98) e.g. Type A EB025 – 200 mm	with two end-fittings (from Page 98) e.g. Type A2 EB025/002 – 200 mm

25 mm,
50 mmAttachment
Length - according to specification

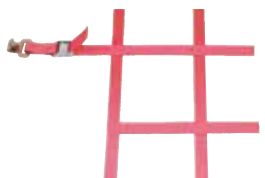
Type B
without end-fitting e.g. Type B – 150 mm

50 mm

Attachment, adjustable
with buckle 806
Length - according to specification (at least 100 mm + adjustment range in mm)

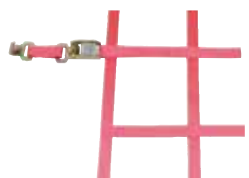
Type C 806	Type C2 806
with end-fitting (from Page 98) e.g. Type C EB826 le – 100 mm	with two end-fittings (from Page 98) e.g. Type C2 EB826/828 le – 100 mm

25 mm

Tensioning device
with clamp lock 805
Length - according to specification (at least 200 mm + adjustment range in mm)

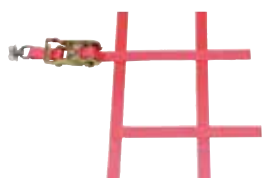
Type K 805	Type K2 805
with end-fitting (from Page 98) e.g. Type K 805 EB025 – 250 mm	with two end-fittings (from Page 98) e.g. Type K2 805 EB025/002 – 250 mm

25 mm

Quick tensioning device
with clamp lock 605/025
Length - according to specification (at least 200 mm + adjustment range in mm)

Type SK 605/025	Type A2 605/025
with end-fitting (from Page 98) e.g. Type SK 605/025 EB025 – 300 mm	with two end-fittings (from Page 98) e.g. Type SK2 605/02 EB025/002 – 300 mm

25 mm

Tensioning device
with ratchet 909
Length - according to specification (at least 200 mm + adjustment range in mm)

Type R 906	Type R2 906
with end-fitting (from Page 98) e.g. Type R 909 EB379 – 300 mm	with two end-fittings (from Page 98) e.g. Type R2 909 EB025/002 – 300 mm

50 mm



Tensioning device
with clamp lock 907
Length - according to specification (at least 200 mm + adjustment range in mm)

Type K 907

with end-fitting (from Page 98)
e.g. Type K 907 EB826 le – 250 mm

Type K2 907

with two end-fittings (from Page 98)
e.g. Type K2 907 EB826/828 le – 250 mm

50 mm



Tensioning device
with ratchet 916
Length - according to specification (at least 200 mm + adjustment range in mm)

Type R 916

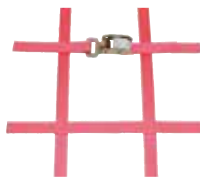
with end-fitting (from Page 98)
e.g. Type R 916 EB828 le – 300 mm

Type R2 916

with two end-fittings (from Page 98)
e.g. Type R2 916 EB826/828 le – 300 mm

Central connecting components

25 mm

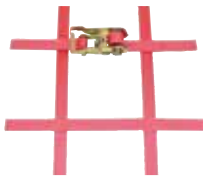


Central quick tensioning device
with clamp lock 605/025
Length - according to specification (at least 100 mm) + adjustment range in mm

Type MSK

e.g. Type MSK 605/025 MW VS 100-300 mm

25 mm

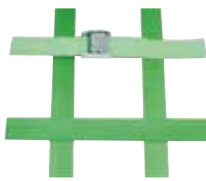


Central tensioning device
with ratchet 909
Length - according to specification (at least 100 mm) + adjustment range in mm

Type MR 909

e.g. Type MR 909 MW VS 100-400 mm

50 mm

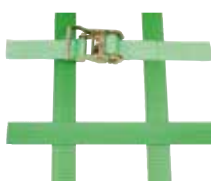


Central tensioning device
with clamp lock 907
Length - according to specification (at least 80 mm) + adjustment range in mm

Type MK 907

e.g. Type MK 907 MW VS 80-400 mm

50 mm

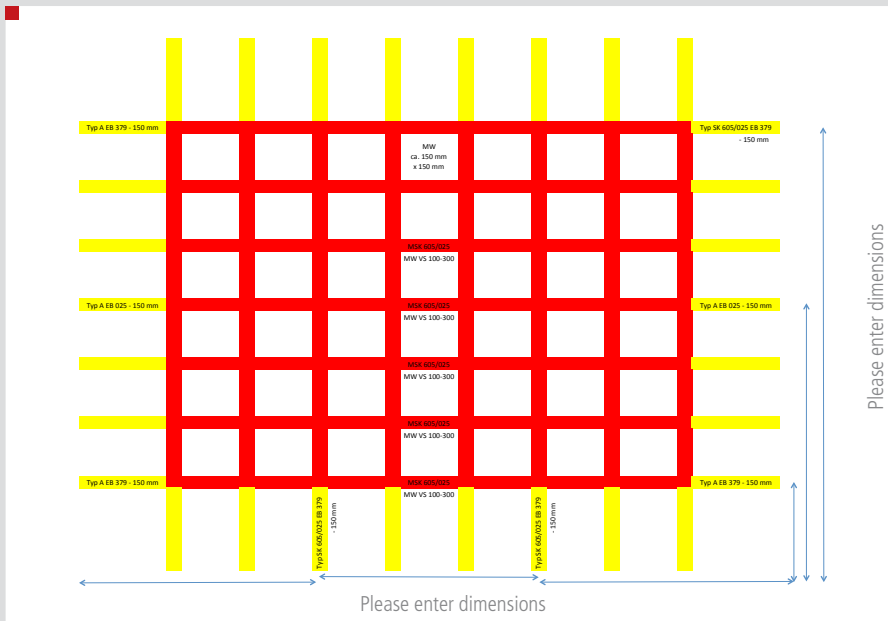


Central tensioning device
with ratchet 916
Length - according to specification (at least 120 mm) + adjustment range in mm

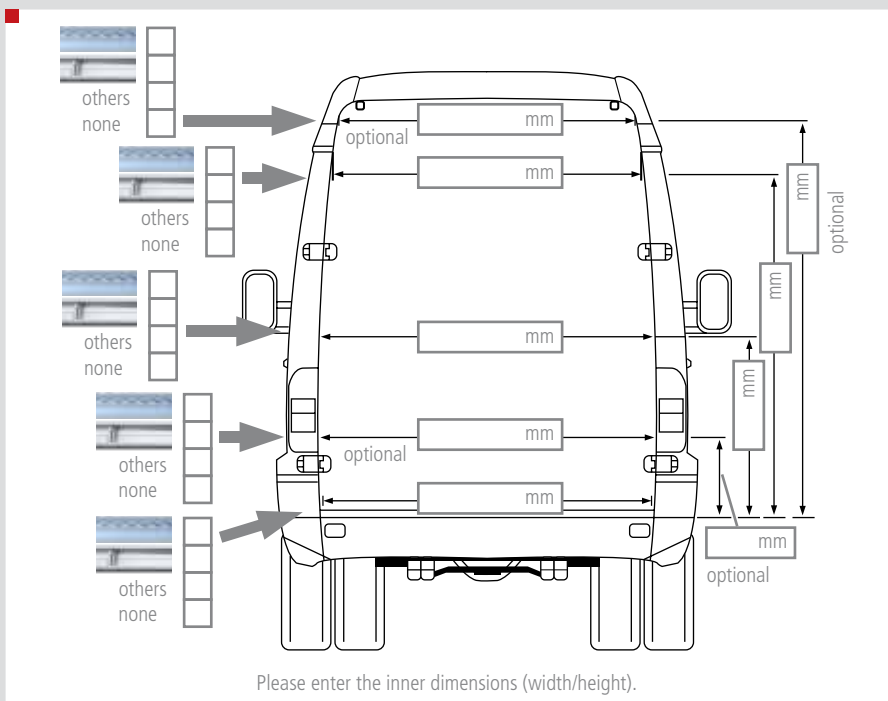
Type MR 916

e.g. Type MR 916 MW VS 120-400 mm

Vertical versions - Ordering template / example



Safeguard load securing nets for transport vehicles



If your vehicle is already fitted with lashing tracks, please tick these accordingly.

- Airline lashing track
- Keyhole lashing track
- A photo would be very helpful if a different lashing track is installed.

If your vehicle is not yet fitted with lashing tracks, please state the dimensions at which horizontal struts/reinforcements are mounted in the vehicle.

Please **always** state the dimension **centred** to the lashing track/strut.

The optional dimensions only apply if several lashing tracks were installed!

WISTRA Safeguard load securing net



Item No. 27 222 00 000 01

Dimensions: 1,375 mm x 1,225 mm
 Mesh aperture: 125 mm x 125 mm
 Webbing: 25 mm wide
 Colour: blue
 Breaking strength: 2,000 daN

Material: PES
 elongation < 7%
 LC net attachment point: 300 daN
 LC net total: 480 daN

Only apply strain on the intended attachment points!

Design with 4 quick tensioning straps in connection with sewn-on end-fittings 025.

May not be used for lifting!

Manufactured, labelled and tested in acc. with VDI Directive 2700 Sheet 3.3 (as well as on the basis of DIN EN 12195-2).

WISTRA Safeguard load securing net



Item No. 27 213 00 000 00

Dimensions: 1,575 mm x 1,350 mm
 Mesh aperture: 200 mm x 200 mm
 Webbing: 25 mm wide
 Colour: red
 Breaking strength: 2,000 daN

Material: PES
 Elongation < 7%
 LC net attachment point: 500 daN
 LC net total: 800 daN

Only apply strain on the intended attachment points!

Circumferential design with 14 D-rings as well as 4 sewn-on end-fittings 025 on the short sides. Including 4 attachment straps WTR 1000 single-part 4.0 m with one free-running end-fitting 002 each.

May not be used for lifting!

Manufactured, labelled and tested in acc. with VDI Directive 2700 Sheet 3.3 (as well as on the basis of DIN EN 12195-2).

WISTRA Safeguard load securing net 27283

Consisting of:

- 1 x load securing net
on the basis of VDI 2700 Sheet 3.3
Material: Knitted yarn
Material thickness: 3 mm
Mesh aperture: approx. 45 mm
Maximum mesh tensile strength:
approx. 1250 N
Yarn colour: black
Circumferential with black edge binding
as well as 20 strap loops
- 1 x WTK 500 single-part
- 4 x End-fitting

Manufactured, labelled and tested in acc. with
VDI Directive 2700 Sheet 3.3

LC net attachment point: 400 daN
LC net total: 400 daN

Only apply strain on the intended attachment
points!

May not be used for lifting!



1



2



3



4

End-fittings:



You can find additional end-fittings
with a minimum breaking force MBL
400 daN from Page 98.

Standard version	Dimensions	Strap system	End-fitting	Item No.
Safeguard Type 27283	1,250 mm x 730 mm	WTK 500-single-part 4.1 m yellow	4 x 002	272830002210
Safeguard Type 27283	1,250 mm x 730 mm	WTK 500-single-part 4.1 m yellow	4 x 725	272830725210
Safeguard Type 27283	1,250 mm x 730 mm	WTK 500-single-part 4.1 m yellow	4 x 201	272830201210
Safeguard Type 27283	1,250 mm x 730 mm	WTK 500-single-part 4.1 m yellow	4 x 025	272830025210
Safeguard Type 27283	1,250 mm x 730 mm	WTK 500-single-part 4.1 m yellow	4 x 382	272830382210
Safeguard Type 27294	2,290 mm x 1500 mm	WTK 500-single-part 7.8 m yellow	4 x 002	272940002210
Safeguard Type 27294	2,290 mm x 1500 mm	WTK 500-single-part 7.8 m yellow	4 x 725	272940725210
Safeguard Type 27294	2,290 mm x 1500 mm	WTK 500-single-part 7.8 m yellow	4 x 201	272940201210
Safeguard Type 27294	2,290 mm x 1500 mm	WTK 500-single-part 7.8 m yellow	4 x 025	272940025210
Safeguard Type 27294	2,290 mm x 1500 mm	WTK 500-single-part 7.8 m yellow	4 x 382	272940382210

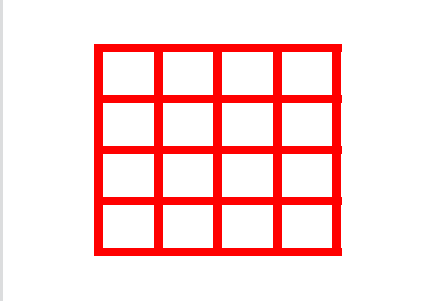
Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request

Horizontal versions

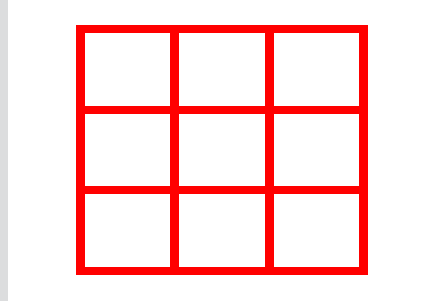


Standard grid mesh apertures for 25 mm webbing

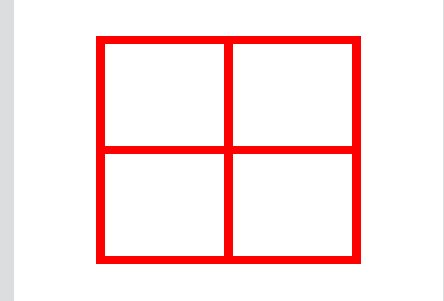
Webbing minimum breaking force 2,000 daN



Mesh aperture 150 mm
Example size 725 mm x 725 mm



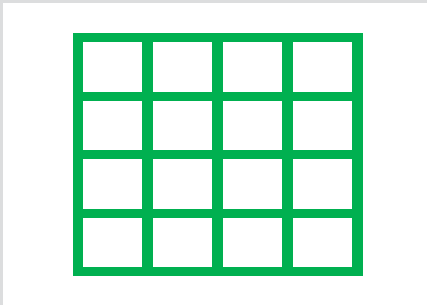
Mesh aperture 250 mm
Example size 850 mm x 850 mm



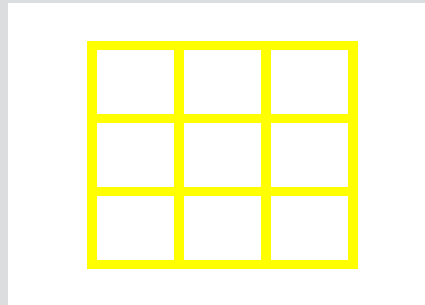
Mesh aperture 350 mm
Example size 775 mm x 775 mm

Standard grid mesh apertures for 50 mm webbing

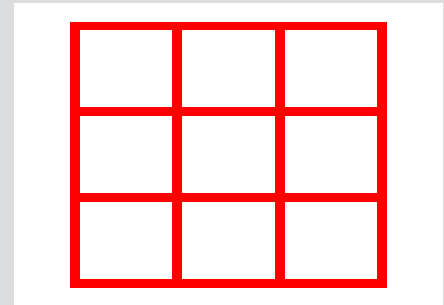
Minimum breaking force of webbing 4,000 daN, 6,000 daN, 7,600 daN



Mesh aperture 300 mm
Example size 1,450 mm x 1,450 mm



Mesh aperture 400 mm
Example size 1,400 mm x 1,400 mm



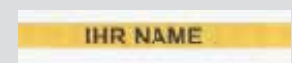
Mesh aperture 500 mm
Example size 1,700 mm x 1,700 mm

Individual mesh apertures are possible, even within a load securing net!

Webbing colours

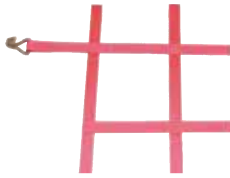


Property marking



Side connecting components

25 mm,
50 mm



Attachment, rigid
Length - according to specification *)

Type A

with end-fitting (from Page 98)
e.g. Type A EB002 – 200 mm

Type A2

with two end-fittings (from Page 98)
e.g. Type A2 EB025/002 – 200 mm

25 mm,
50 mm



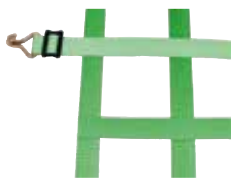
Attachment
Length - according to specification

Type B

without end-fitting
e.g. Type B – 1000 mm

For this version you can use fixed ends.

50 mm



Attachment, adjustable
with buckle 806
Length - according to specification (at least 100 mm)

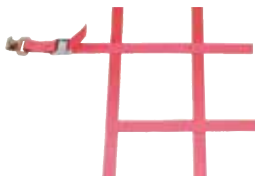
Type C 806

with end-fitting (from Page 98)
e.g. Type C EB007 – 500 mm

Type C2 806

with two end-fittings (from Page 98)
e.g. Type C2 EB381/007 – 500 mm

25 mm



Tensioning device
with clamp lock 805
Length - according to specification (at least 150 mm + adjustment range in mm)

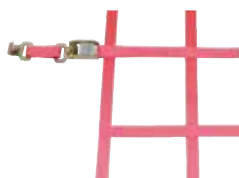
Type K 805

with end-fitting (from Page 98)
e.g. Type K 805 EB025 – 250 mm

Type K2 805

with two end-fittings (from Page 98)
e.g. Type K2 805 EB025/002 – 250 mm

25 mm



Quick tensioning device
with clamp lock 605/025
Length - according to specification (at least 150 mm + adjustment range in mm)

Type SK 605/025

with end-fitting (from Page 98)
e.g. Type SK 605/025 EB025 – 300 mm

Type SK2 605/025

with two end-fittings (from Page 98)
e.g. Type SK2 605/02 EB025/002 – 300 mm

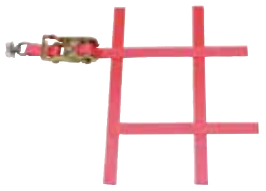
*)

25 mm webbing with 2,000 daN minimum breaking force: at least 100 mm plus end-fitting

50 mm webbing with 4,000 daN minimum breaking force: at least 200 mm plus end-fitting

50 mm webbing with 6,000/7,500 daN minimum breaking force: at least 230 mm plus end-fitting

25 mm



Tensioning device
with ratchet 909

Length - according to specification (at least 200 mm + adjustment range in mm)

Type R 909	Type R2 909
with end-fitting (from Page 98) e.g. Type R 909 EB379 – 300 mm	with two end-fittings (from Page 98) e.g. Type R2 909 EB025/379 – 300 mm

50 mm



Tensioning device
with clamp lock 907

Length - according to specification (at least 200 mm + adjustment range in mm)

Type K 907	Type K2 907
with end-fitting (from Page 98) e.g. Type K 907 EB007 – 250 mm	with two end-fittings (from Page 98) e.g. Type K2 907 EB007/381 – 250 mm

50 mm



Tensioning device
with ratchet 916

Length - according to specification (at least 200 mm + adjustment range in mm)

Type R 916	Type R2 916
with end-fitting (from Page 98) e.g. Type R 916 EB007 – 300 mm	with two end-fittings (from Page 98) e.g. Type R2 916 EB007/381 – 300 mm

50 mm



similar

Tensioning device
with ratchet 811

Length - according to specification (at least 400 mm + adjustment range in mm)

Type R 811	Type R2 811
with end-fitting (from Page 98) e.g. Type R 811 EB006 – 400 mm	with two end-fittings (from Page 98) e.g. Type R2 811 EB006/065 – 400 mm

50 mm



similar

Tensioning device
with ratchet 814

Length - according to specification (at least 400 mm + adjustment range in mm)

Type R 814	Type R2 814
with end-fitting (from Page 98) e.g. Type R 814 EB006 – 400 mm	with two end-fittings (from Page 98) e.g. Type R2 814 EB006/065 – 400 mm

50 mm



similar

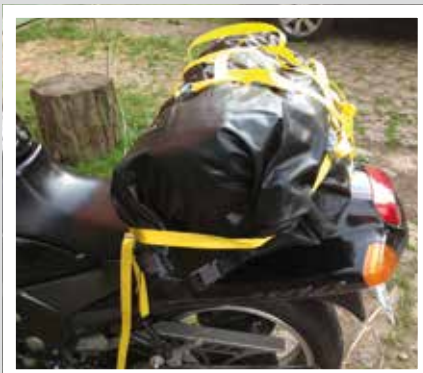
Tensioning device
with ratchet 818

Length - according to specification (at least 500 mm + adjustment range in mm)

Type R 818	Type R2 818
with end-fitting (from Page 98) e.g. Type R 818 EB006 – 500 mm	with two end-fittings (from Page 98) e.g. Type R2 818 EB006/065 – 500 mm

WISTRA Safeguard load securing net 27281

Motorcycle seat load securing net



Consisting of:

- **1 x safeguard net**
Length: max. 575 mm/min. 370 mm
Width: 300 mm
With label protection safeguard
- **Front attachment**
2 x WTK 75 single-part 1,100 mm free-running, equipped with:
150 mm protective hose
1 x End-fitting 725
1 x End-fitting 025
- **Rear attachment**
2 x WTK 75-999C-200 LE 500 mm with threaded clamp lock 805
2 x WTK 75-725 LE 500 mm with threaded clamp lock 805

- **Lateral fixation**
2 x lashing adaptor 999C-200/EB 025
2 x WTK 75-999A-30 LE 1,000 mm with threaded clamp lock 805
4 x Velcro tape hook/fleece 150 mm each

Manufactured, labelled and tested in acc. with VDI Directive 2700 Sheet 3.3 (as well as on the basis of DIN EN 12195-2).

Material: PES
elongation < 7%
LC net attachment point: 75 daN
LC net total: 100 daN

Only apply strain on the intended attachment points!

May not be used for lifting!

Design and item number: With desired strap colour: please enquire!

WISTRA covering nets

WISTRA covering nets with edge finishing and 6 mm circular rubber rope



Designation	Dimensions	Unit of quantity	Item No.
WIS covering net 2 mm MW 30	1.4 m x 2.3 m	Pieces	275200312314
WIS covering net 2 mm MW 30	1.6 m x 2.8 m	Pieces	275200312816
WIS covering net 2 mm MW 30	1.8 m x 3.3 m	Pieces	275200313318
WIS covering net 2 mm MW 30	2.0 m x 3.0 m	Pieces	275200312030
WIS covering net 2 mm MW 30	2.0 m x 3.5 m	Pieces	275200312035
WIS covering net 2 mm MW 30	2.5 m x 3.5 m	Pieces	275200313525
WIS covering net 2 mm MW 30	2.5 m x 4.5 m	Pieces	275200314525
WIS covering net 2 mm MW 30	3.0 m x 4.5 m	Pieces	275200314530

Designation	Dimensions	Unit of quantity	Item No.
WIS covering net 3 mm MW 50	1.5 m x 2.2 m	Pieces	275300511522
WIS covering net 3 mm MW 50	1.5 m x 2.5 m	Pieces	275300511525
WIS covering net 3 mm MW 50	1.5 m x 2.7 m	Pieces	275300512715
WIS covering net 3 mm MW 50	2.0 m x 3.0 m	Pieces	275300512030
WIS covering net 3 mm MW 50	2.5 m x 3.5 m	Pieces	275300512535
WIS covering net 3 mm MW 50	2.5 m x 4.5 m	Pieces	275300514525
WIS covering net 3 mm MW 50	3.0 m x 3.5 m	Pieces	275300513035
WIS covering net 3 mm MW 50	3.0 m x 4.0 m	Pieces	275300513040
WIS covering net 3 mm MW 50	3.5 m x 5.0 m	Pieces	275300513550
WIS covering net 3 mm MW 50	3.5 m x 5.5 m	Pieces	275300515535
WIS covering net 3 mm MW 50	3.5 m x 6.0 m	Pieces	275300513560
WIS covering net 3 mm MW 50	3.5 m x 7.0 m	Pieces	275300513570
WIS covering net 3 mm MW 50	3.5 m x 8.0 m	Pieces	275300513580






Designation	Dimensions	Unit of quantity	Item No.
Rubber rope	Ø 6 mm	m	2756000G0000
Rubber rope	Ø 12 mm	m	27512000G0000

WISTRA retaining nets

Versions

Material PPM thickness 4.5 mm, mesh aperture 60 mm, colour red, standard dimensions 2.80 x 3.30 m, the edge is reinforced additionally.



Name	Item No.
 Type 1 with sew-up edge rope	275450622833
 Type 2 with a PA rope threaded through the outer row of meshes, 2 steel thimbles each having a wire coil passed through for attaching in the corners	275450612833
 Type 3 enclosed all-round with a belt strap	275450632833
 Single-part ratchet lashing strap WTR 1000 single-part 2.0 m with a loop on the ratchet	119090200020005
 GFK telescope bar for simple handling with interchangeable special hooks Application range 1,500 - 2,800 mm	160050000040

Application example

Retaining net used for short-wood transports.

- Secures the load in case of cavern/tunnel formation:
 - in the block
 - on a stanchion
 - in the saddle position that was not reached by the lashing means
- Reliable in use, sufficient strength
- Simple and quick handling
- Cost-effective and long service life
- Clearly visible and noticeable
- Marking

Load securing systems

WISTRA load securing system SAFECON

WISTRA SAFECON is a novel and modular load unit securing system that enables safe transport of Octabin containers and quick loading and unloading without planning.



No anti-slip mats are required for SAFECON.

SAFECON is a system for securing IBC octabins made of corrugated cardboard onto CP3 wooden flat pallets.

Safecon has been specially developed for platform trucks and certified by DEKRA.

Safecon can also be retrofitted quickly and economically to any vehicle bodies, even Curtain-sider (code L) in particular.



Handling is quick and easy:

Securing is done from the vehicle base

The curtains of the vehicle need not be rolled up



Designation	Item No.
WIS SAFECON system code XL - 2480 mm Version for side lashing rails - for 22 octabins, - individual weight up to 1,200 kg consisting of: 16 pieces longitudinal bars 11 pieces Safecon decking beams 2 pieces Safecon diagonal straps, blue 1 piece Safecon lashing straps, yellow 8 pieces Safecon enlacement straps, yellow 8 pieces Safecon enlacement straps, red 2 pieces Safecon enlacement straps, orange	200003
WIS SAFECON system code XL - 2480 mm Version for floor lashing points - for 22 octabins, - individual weight up to 1,200 kg consisting of: 16 pieces longitudinal bars 11 pieces Safecon decking beams 2 pieces Safecon diagonal straps, blue 1 piece Safecon lashing straps, yellow 8 pieces Safecon enlacement straps, yellow 8 pieces Safecon enlacement straps, red 2 pieces Safecon enlacement straps, orange	200001

Designation	Item No.
Safecon bars max. 3,500 mm long	22639-3500
Insert bars Safecon	160003
Safecon decking beams / free inside dimension 2,480 mm	22183903
Safecon diagonal strap Item 7	1507018
Safecon parking device pieces	221839990001
Safecon securing strap Item 3 complete, yellow	1507011
Safecon enlacement strap Item 4 FE, yellow	1507012
Safecon enlacement strap Item 4 LE 006, yellow	1507021
Safecon enlacement strap Item 4 LE 206, yellow	1507015
Safecon enlacement strap Item 5 FE, red	1507013
Safecon enlacement strap Item 5 LE 006, red	1507020
Safecon enlacement strap Item 5 LE 206, red	1507016
Safecon enlacement strap Item 6 FE orange	1507014
Safecon enlacement strap Item 6 LE 006 orange	1507019
Safecon enlacement strap Item 6 LE 206 orange	1507017

WISTRA Info

No anti-slip mats are required!



Your WISTRA team will gladly help you to select the system components.

WISTRA load securing system SAFETAINER



IBCs made of corrugated cardboard like Palmtainer or octabins as well as other cargo

This three dimensional net secures the load in all directions with the diagonal lashings.

Lashing points according to DIN EN 12640 are a prerequisite for the proper use.

No anti-slip mats are required for WISTRA SAFETAINER.

The SAFETAINER load securing systems are conceptualised and made up individually according to the cargo.

We would be pleased to advise you!

WISTRA load securing system GTS



WISTRA GTS can be used for the following standard dimensions:

- SUDEX KEG having an outer diameter of 381 mm and volume of 30 and 50 litres, steel
- PLUS KEG having an outer diameter of 395 mm and polyurethane foam sheathing 300 x 400 mm beverage crates

WISTRA GTS is a system for protecting beverage crates and containers on platform trucks.

Advantages:

- Extremely quick handling through simple laying and fixing with the help of mould-adapted lashes
- Safe belt strap guidance
- Can be used for all platform trucks
- The GTS load securing system can be used for transporting all types of beverages on standard platform trucks
- Owing to the option of reliable tie-down lashing, load can be safely transported even using vehicles without any special equipment.
- There is no need of expensive securing methods for forming load units: stop using the tiresome securing process with one-way lashing or using winding-foils or shrink foils!

Simple application

- GTS securing elements are laid in pairs across two opposite pallet slots having the same height.
- Stacked beverage crates as well as containers can be secured.
- Use in case of 50-litre containers in two tiers or 30-litre containers in three tiers.

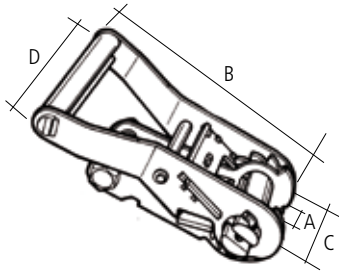


Designation	Unit of quantity	Item No.
WISTRA GTS glued-on anti-slip pads Material: steel, surface yellow powder coated Weight: 6.0 kg	Pieces	160060000015

Notes

A large white rectangular area with 30 horizontal lines, intended for writing notes.

Ratchet



A = Webbing width
 B = Overall length
 C = Overall width
 D = Width of handle
 FB = Breaking force

¹⁾ used in the WISTRA lashing straps

Supply of locks and end-fittings subject to dimensional and visual deviations

75 mm



Minimum breaking force: 10,000 daN

Item No. 12975000013

Webbing width: 75 mm
 Overall length: 325 mm
 Overall width: 137 mm
 Width of handle: 118 mm

50 mm



Minimum breaking force: 5,000 daN

Item No. 12818000013

Webbing width: 50 mm
 Overall length: 410 mm
 Overall width: 90 mm
 Width of handle: 110 mm
 STF¹⁾: 704/550 daN

50 mm



Minimum breaking force: 5,000 daN

Item No. 12822000013

Webbing width: 50 mm
 Overall length: 370 mm
 Overall width: 90 mm
 Width of handle: 110 mm
 STF¹⁾: 500 daN

50 mm



Minimum breaking force: 5,000 daN

Item No. 12811000013KG

Webbing width: 50 mm
 Overall length: 230 mm
 Overall width: 95 mm
 Width of handle: 98 mm
 STF¹⁾: 350 daN

50 mm



Minimum breaking force: 5,000 daN

Item No. 12821000013

Webbing width: 50 mm
 Overall length: 185 mm
 Overall width: 100 mm
 Width of handle: 95 mm
 STF¹⁾: 240 daN

50 mm



Minimum breaking force: 2,000 daN

Item No. 12916000013

Webbing width: 50 mm
 Overall length: 133 mm
 Overall width: 76 mm
 Width of handle: 84 mm
 STF¹⁾: 210 daN

35 mm



Minimum breaking
force: 3,000 daN

Item No. 129080000013

Webbing width: 35 mm
Overall length: 157 mm
Overall width: 72 mm
Width of handle: 55 mm
STF[®]: 240 daN

35 mm



Minimum breaking
force: 2,000 daN

Item No. 129170000013

Webbing width: 35 mm
Overall length: 132 mm
Overall width: 62 mm
Width of handle: 65 mm
STF[®]: 200 daN

25 mm



Minimum breaking
force: 1,500 daN

Item No. 129090000013

Webbing width: 25 mm
Overall length: 120 mm
Overall width: 55 mm
Width of handle: 56 mm
STF[®]: 200 daN

25 mm Niro



Minimum breaking
force: 1,500 daN

Item No. 129090000030

Webbing width: 25 mm
Overall length: 128 mm
Overall width: 55 mm
Width of handle: 64 mm

25 mm



Minimum breaking
force: 1,500 daN

Item No. 129150000013

Webbing width: 25 mm
Overall length: 120 mm
Overall width: 55 mm
Width of handle: 60 mm

25 mm

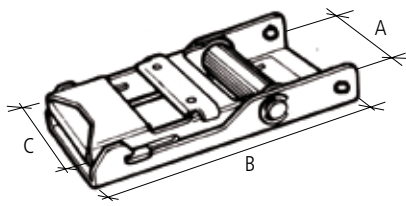


Minimum breaking
force: 800 daN

Item No. 129060000013

Webbing width: 25 mm
Overall length: 115 mm
Overall width: 53 mm
Width of handle: 35 mm
STF[®]: 160 daN

Overcenter locks



A = Webbing width
 B = Overall length
 C = Overall width
 FB = Breaking force

50 mm



Minimum breaking force: 1,500 daN

Item No. 129120000013

Webbing width: 50 mm
 Overall length: 140 mm
 Overall width: 65 mm

50 mm Niro



Minimum breaking force: 1,500 daN

Item No. 129510000030

Webbing width: 50 mm
 Overall length: 140 mm
 Overall width: 60 mm

50 mm



Minimum breaking force: 900 daN

Item No. 129600000013

Webbing width: 50 mm
 Overall length: 185 mm
 Overall width: 68 mm

50 mm

Vinyl coated



Minimum breaking force: 700 daN

Item No. 129600000016

Webbing width: 50 mm
 Overall length: 185 mm
 Overall width: 68 mm

45 mm



Minimum breaking force: 2,250 daN

Item No. 129130000013

Webbing width: 45 mm
 Overall length: 156 mm
 Overall width: 65 mm

45 mm

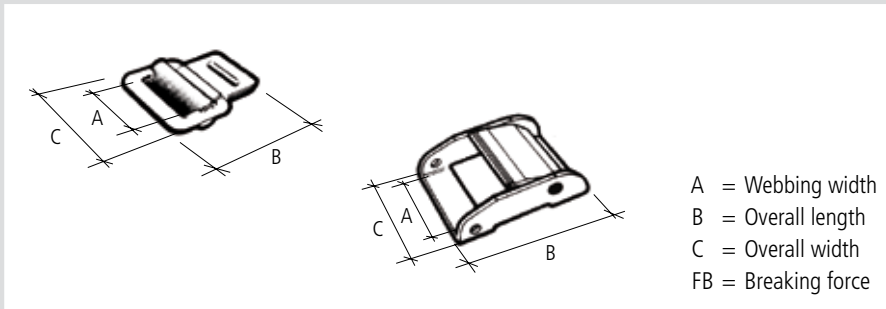


Minimum breaking force: 1,450 daN

Item No. 129700000030

Webbing width: 45 mm
 Overall length: 160 mm
 Overall width: 60 mm

Clamp locks



50 mm



Minimum breaking force: 1,000 daN

Item No. 129070000012

Webbing width: 50 mm
Overall length: 74 mm
Overall width: 65 mm

50 mm



Minimum breaking force: 1,800 daN

Item No. 128060000016

Webbing width: 50 mm
Overall length: 45 mm
Overall width: 75 mm

50 mm



Minimum breaking force: 600 daN

Item No. 128020000012

Webbing width: 50 mm
Overall length: 57 mm
Overall width: 68 mm

35 mm



Minimum breaking force: 900 daN

Item No. 128350000020

Webbing width: 35 mm
Overall length: 60 mm
Overall width: 52 mm

25 mm



Minimum breaking force: 680 daN

Item No. 126050000013

Webbing width: 25 mm
Overall length: 65 mm
Overall width: 40 mm

25 mm



Minimum breaking force: 500 daN

Item No. 128050000020

Webbing width: 25 mm
Overall length: 50 mm
Overall width: 34 mm

25 mm

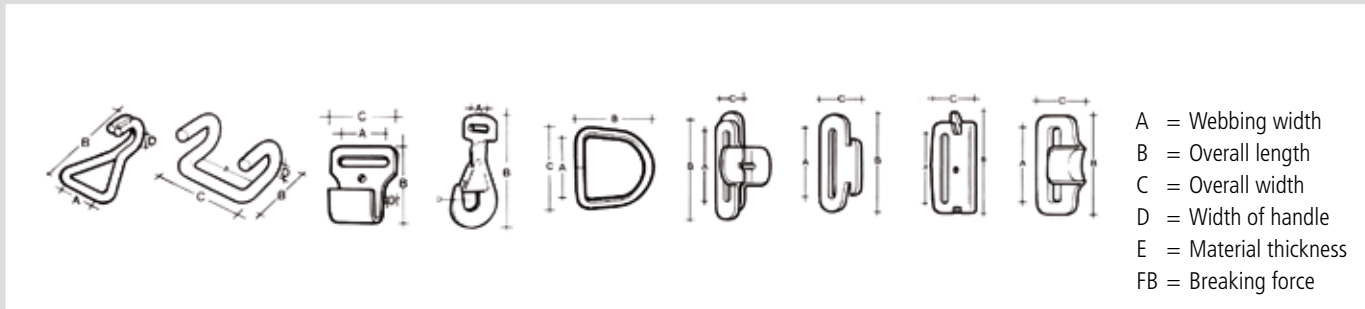


Minimum breaking force: 350 daN

Item No. 128040000020

Webbing width: 25 mm
Overall length: 53 mm
Overall width: 32 mm

End-fittings



Supply of locks and end-fittings subject to dimensional and visual deviations

75 mm

Pointed hook

Minimum breaking
force: 10,000 daN



Item No. 14000006700

Webbing width: 75 mm
 Overall length: 142 mm
 Opening: 31 mm
 Material thickness: 15 mm

75 mm

Eye hook with
strap hoop

Minimum breaking
force: 10,000 daN



Item No. 14000006600

Webbing width: 75 mm
 Overall length: 168 mm
 Opening: 31 mm
 Material thickness: 16 mm

80 mm

Strap hoop

Minimum breaking
force: 10,000 daN



Item No. 14000006800

Webbing width: 80 mm
 Opening: 85 mm
 Material thickness: 16 mm

50 mm
Pointed hook

Minimum breaking
force: 5,000 daN



Item No. 140000000600

Webbing width: 50 mm
Overall length: 70 mm
Overall width: 71 mm
Opening: 25 mm
Material thickness: 11 mm

50 mm
Pointed hook

Minimum breaking
force: 3,000 daN



Item No. 140000000700

Webbing width: 50 mm
Overall length: 70 mm
Overall width: 71 mm
Opening: 20 mm
Material thickness: 10 mm

50 mm
Pointed hook
cropped

Minimum breaking
force: 5,000 daN



Item No. 140000004600

Webbing width: 50 mm
Overall length: 80 mm
Overall width: 76 mm
Opening: 25 mm
Material thickness: 12 mm

50 mm
Single finger
pointed hook

Minimum breaking
force: 5,000 daN



Item No. 140000001400

Webbing width: 50 mm
Overall length: 130 mm
Overall width: 80 mm
Opening: 37 mm
Material thickness: 15 mm

50 mm
flat hook

Minimum breaking
force: 5,000 daN



Item No. 140000001300

Webbing width: 50 mm
Overall length: 112 mm
Overall width: 77 mm
Opening: 15 mm
Material thickness: 11 mm

50 mm
flat hook

Minimum breaking
force: 3,000 daN



Item No. 140000001200

Webbing width: 50 mm
Overall length: 75 mm
Overall width: 66 mm
Opening: 14 mm
Material thickness: 4.2 mm

50 mm
Pointed hook
with hook safety

Minimum breaking
force: 5,000 daN



Item No. 14000002060001

Webbing width: 50 mm
Overall length: 118 mm
Overall width: 74 mm
Opening: 29 mm
Material thickness: 13 mm

50 mm
Hook with
safety ring

Minimum breaking
force: 4,000 daN



Item No. 140000000800

Webbing width: 50 mm
Overall length: 72 mm
Overall width: 68 mm
Opening: 28 mm
Material thickness: 8 mm

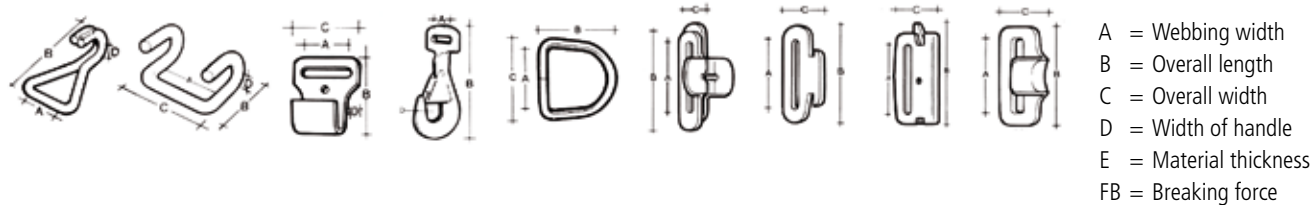
50 mm
Pointed hook
with web

Minimum breaking
force: 5,000 daN



Item No. 140000030600

Webbing width: 50 mm
Overall length: 137 mm
Overall width: 80 mm
Opening: 30 mm
Material thickness: 11 mm



Supply of locks and end-fittings subject to dimensional and visual deviations

50 mm

Triangle spring
hook

Minimum breaking
force: 5,000 daN



50 mm

Spring hook

Minimum breaking
force: 5,000 daN



50 mm

Spring hook

Minimum breaking
force: 5,000 daN



Item No. 14000007500

Webbing width: 50 mm
 Overall length: 165 mm
 Overall width: 84 mm
 Opening: 29 mm

Item No. 140000021000

Webbing width: 50 mm
 Overall length: 153 mm
 Overall width: 72 mm
 Opening: 25 mm
 Material thickness: 6 mm

Item No. 140000005000

Webbing width: 50 mm
 Overall length: 152 mm
 Overall width: 72 mm
 Opening: 25 mm
 Material thickness: 6 mm

50 mm

Anchor hook

Minimum breaking
force: 5,000 daN



50 mm

Claw hook

Minimum breaking
force: 5,000 daN



50 mm

Triangle

Minimum breaking
force: 5,000 daN



Item No. 140000083400

Webbing width: 50 mm
 Overall length: 120 mm
 Material thickness: 50 mm

Item No. 140000006500

Webbing width: 50 mm
 Overall length: 60 mm
 Overall width: 78 mm
 Opening: 14 mm
 Material thickness: 12.5 mm

Item No. 140000001800

Webbing width: 50 mm
 Overall length: 78 mm
 Overall width: 80 mm
 Material thickness: 6 mm

50 mm

D-ring

Minimum breaking
force: 5,000 daN



50 mm

D-ring

Minimum breaking
force: 2,270 daN



50 mm

D-ring

Minimum breaking
force: 1,700 daN



Item No. 140000070800

Webbing width: 50 mm
 Overall length: 69 mm
 Overall width: 80 mm
 Material thickness: 10 mm

Item No. 140000070600

Webbing width: 50 mm
 Overall length: 62 mm
 Overall width: 64 mm
 Material thickness: 8 mm

Item No. 140000070500

Webbing width: 50 mm
 Overall length: 60 mm
 Overall width: 67 mm
 Material thickness: 7 mm

50 mm

Crown hook

Minimum breaking
force: 2,500 daN**Item No. 14000084012**

Webbing width: 50 mm
 Overall length: 86 mm
 Overall width: 85 mm
 Opening: 9 mm
 Material thickness: 6.5 mm

35 mmPointed hook for
Ratchet 908Minimum breaking
force: 3,000 daN**35 mm**

Pointed hook

Minimum breaking
force: 3,000 daN**Item No. 140000035600**

Overall length: 108 mm
 Overall width: 60 mm
 Opening: 24 mm
 Material thickness: 13 mm

Item No. 140000035400

Webbing width: 35 mm
 Overall length: 108 mm
 Overall width: 65 mm
 Opening: 24 mm
 Material thickness: 13 mm

50 mmPointed hook for
Ratchet 811 + 814Minimum breaking
force: 5,000 daN**50 mm**

Pointed hook

Minimum breaking
force: 3,000 daN**Item No. 140000035300**

Webbing width: 50 mm
 Overall length: 100 mm
 Overall width: 60 mm
 Opening: 24 mm
 Material thickness: 15.5 mm

Item No. 140000035100

Webbing width: 50 mm
 Overall length: 108 mm
 Overall width: 82 mm
 Opening: 24 mm
 Material thickness: 13 mm

50 mm

Pointed hook

Minimum breaking
force: 5,000 daN**Item No. 140000035000**

Webbing width: 50 mm
 Overall length: 95 mm
 Overall width: 50 mm
 Opening: 24 mm
 Material thickness: 15,5 mm



A = Webbing width
 B = Overall length
 C = Overall width
 D = Width of handle
 E = Material thickness
 FB = Breaking force

Supply of locks and end-fittings subject to dimensional and visual deviations

50 mm

End-fitting for
Anchor combi
lashing tracks



Minimum breaking
force: 1,500 daN

Item No. 14000082600

Webbing width: 50 mm
 Overall length: 75 mm
 Overall width: 34 mm

50 mm

End-fitting for
Anchor combi
lashing tracks



Minimum breaking
force: 2,000 daN

Item No. 14000082200

Webbing width: 50 mm
 Overall length: 74 mm
 Overall width: 24 mm

50 mm

End-fitting for
Anchor combi
lashing tracks



Minimum breaking
force: 2,000 daN

Item No. 14000082100

Webbing width: 50 mm
 Overall length: 80 mm
 Overall width: 13 mm
 Overall width (ring): 66 mm

50 mm

End-fitting for
Guiding tracks



Minimum breaking
force: 500 daN

Item No. 14000087100

Webbing width: 50 mm
 Overall length: 65 mm
 Overall width: 35 mm
 Material thickness: 4 mm

50 mm

End-fitting for
Keyhole



Minimum breaking
force: 1,500 daN

Item No. 14000082800

Webbing width: 50 mm
 Overall length: 80 mm
 Overall width: 37 mm
 Material thickness: 6 mm

25 mm

Airline end-fitting

Minimum breaking
force: 1,000 daN

24.5 mm

Item No. 140000038200

Webbing width: 25 mm
 Overall length: 64 mm
 Overall width: 46 mm

25 mm

Airline end-fitting

Minimum breaking
force: 1,000 daN**Item No. 140000037900**

Webbing width: 25 mm
 Overall length: 34 mm
 Overall width: 61 mm

50 mm

Airline end-fitting

Minimum breaking
force: 2,000 daN**Item No. 140000038000**

Webbing width: up to 50 mm
 Overall length: 62 mm
 Overall width: 24 mm

35 mm

Airline end-fitting

Minimum breaking
force: 800 daN**Item No. 140000038100**

Webbing width: up to 35 mm
 Overall length: 97 mm
 Overall width: 24 mm

50 mm

Airline end-fitting

Minimum breaking
force: 5,000 daN**Item No. 140000038300**

Webbing width: 50 mm
 Overall length: 113 mm
 Overall width: 20 mm

35 mm

Pointed hook

Minimum breaking
force: 3,000 daN**Item No. 140000052000**

Webbing width: 35 mm
 Overall length: 83 mm
 Overall width: 54 mm
 Opening: 22 mm
 Material thickness: 9 mm

35 mm

Single-finger hook

Minimum breaking
force: 3,000 daN**Item No. 140000053100**

Webbing width: 35 mm
 Overall length: 94 mm
 Overall width: 61 mm
 Opening: 23 mm
 Material thickness: 14 mm

35 mm

Single-finger hook

Minimum breaking
force: 2,500 daN**Item No. 140000053600**

Webbing width: 35 mm
 Overall length: 91 mm
 Overall width: 60 mm
 Opening: 23 mm
 Material thickness: 12 mm

35 mm

Claw hook

Minimum breaking
force: 2,500 daN**Item No. 140000053200**

Webbing width: 35 mm
 Overall length: 50 mm
 Overall width: 60 mm
 Opening: 19 mm
 Material thickness: 10 mm

35 mm

Spring hook

Minimum breaking
force: 3,000 daN**Item No. 140000053000**

Webbing width: 35 mm
 Overall length: 130 mm
 Overall width: 55 mm
 Opening: 16 mm
 Material thickness: 5 mm

35 mm

D-ring

Minimum breaking
force: 3,000 daN**Item No. 14000001500**

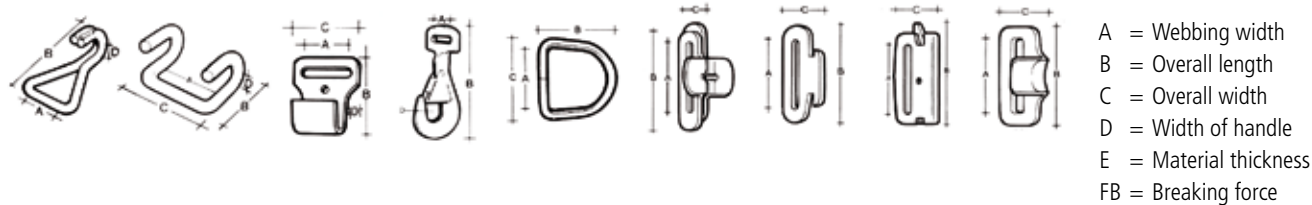
Webbing width: 35 mm
 Overall length: 85 mm
 Overall width: 60 mm
 Material thickness: 8 mm

35 mm

Spring hook

Minimum breaking
force: 2,000 daN**Item No. 140000031100**

Webbing width: up to 35 mm
 Overall length: 90 mm
 Overall width: 48 mm
 Opening: 16 mm
 Material thickness: 12.5 mm



Supply of locks and end-fittings subject to dimensional and visual deviations

25 mm

Pointed hook

Minimum breaking force: 1,500 daN



Item No. 14000000200

Webbing width: 25 mm
 Overall length: 60 mm
 Overall width: 40 mm
 Opening: 18 mm
 Material thickness: 7 mm

25 mm

S hook

Minimum breaking force: 500 daN



Item No. 140000072500

Webbing width: 25 mm
 Overall length: 104 mm
 Overall width: 37 mm
 Opening: 38 mm
 Material thickness: 6 mm

25 mm

S hook

Minimum breaking force: 800 daN



Item No. 140000072600

Webbing width: 25 mm
 Overall length: 104 mm
 Overall width: 40 mm
 Opening: 38 mm
 Material thickness: 8 mm

25 mm

Flat hook for Keyhole lashing track

Minimum breaking force: 1,300 daN



Item No. 14000002500

Webbing width: 25 mm
 Overall length: 55 mm
 Overall width: 45 mm
 Opening: 10 mm
 Material thickness: 3 mm

25 mm

Spring hook

Minimum breaking force: 1,360 daN



Item No. 140000020100

Webbing width: 25 mm
 Overall length: 95 mm
 Overall width: 47 mm
 Opening: 13 mm
 Material thickness: 3.5 mm

25 mm

flat hook

Minimum breaking force: 340 daN



Item No. 140000021300

Webbing width: 25 mm
 Overall length: 30 mm
 Overall width: 40 mm
 Opening: 8 mm
 Material thickness: 2.5 mm

25 mm

Claw hook

Minimum breaking force: No designation



Item No. 140000052500

Webbing width: 25 mm
 Overall length: 55 mm
 Overall width: 42 mm
 Opening: 24 mm
 Material thickness: 6 mm

25 mm

Sort-rack flat hook

Minimum breaking force: 500 daN



Item No. 140000039000

Webbing width: 25 mm
 Overall length: 63 mm
 Overall width: 35 mm
 Opening: 8 mm
 Material thickness: 4 mm

25 mm

Platform hook

Minimum breaking force: 250 daN



Item No. 140000052600

Webbing width: 25 mm
 Overall length: 63 mm
 Overall width: 38 mm
 Opening: 28 mm
 Material thickness: 6 mm

25 mmD-ring with
boringMinimum breaking
force: 1,500 daN**Item No. 140000031500**

Webbing width: 25 mm
 Overall length: 48 mm
 Overall width: 38 mm
 Drill hole: 14 mm
 Material thickness: 5 mm

25 mm

D-ring

Minimum breaking
force: 1,050 daN**Item No. 140000070300**

Webbing width: 25 mm
 Overall length: 32 mm
 Overall width: 36 mm
 Material thickness: 6 mm

25 mm

D-ring

Minimum breaking
force: 1,050 daN**Item No. 140000070400**

Webbing width: 25 mm
 Overall length: 46 mm
 Overall width: 39 mm
 Material thickness: 6 mm

50 mmEnd-fitting for
Round hole
Ø 25 mmMinimum breaking
force: 680 daN**Item No. 140000081700**

Webbing width: 50 mm
 Overall length: 71 mm
 Overall width: 27 mm

50 mmEnd-fitting for
Round hole
Ø 20 mmMinimum breaking
force: 680 daN**Item No. 140000081800**

Webbing width: 50 mm
 Overall length: 71 mm
 Overall width: 27 mm

25 mmEnd-fitting for
Round hole
Ø 20 mmMinimum breaking
force: 1,000 daN**Item No. 140000081900**

Webbing width: 25 mm
 Overall length: 71 mm
 Overall width: 27 mm

Loop version

Version A

Bolt loop



Item No. 14999A

Loop length: according to specification
 Reference value:
 Bolt \varnothing x 4 =
 Loop length

Version B

Bolt loop with loop protection



Item No. 14999B

Loop length: according to specification
 Reference value:
 Bolt \varnothing x 4 =
 Loop length

Version C

Return loop



Item No. 14999C

Loop length: according to specification

Version D

Return loop with loop protection



Item No. 14999D

Loop length: according to specification

Version K

smoothly cut



Item No. 14999K

Version I

bevelled, smoothly cut



Item No. 14999I

25 mm webbing



Roll form

Minimum breaking force	Colour	Unit of quantity	Item No.
1,200 daN	blue	m	000565
1,200 daN	yellow	m	000105
1,200 daN	grey	m	000314
1,200 daN	green	m	000108
1,200 daN	sky blue	m	000102
1,200 daN	black	m	000122
1,200 daN	signal blue	m	000569
2,000 daN	blue	m	000564
2,000 daN	grey	m	000118
2,000 daN	sky blue	m	000114
2,000 daN	red	m	000131

35 mm webbing



Roll form

Minimum breaking force	Colour	Unit of quantity	Item No.
3,000 daN	grey	m	000502
3,000 daN	green	m	000142
3,000 daN	orange	m	000145
3,000 daN	black	m	000150
4,500 daN	blue	m	000506

50 mm webbing



Roll form

Minimum breaking force	Colour	Unit of quantity	Item No.
4,000 daN	blue	m	000563
4,000 daN	grey	m	000459
4,000 daN	green	m	000192
4,000 daN	olive green	m	000571
4,000 daN	signal blue	m	000166
6,000 daN	blue	m	000582
6,000 daN	yellow	m	000220
6,000 daN	green	m	000222
6,000 daN	orange	m	000231
6,000 daN	red	m	000327
6,000 daN	black	m	000238
7,600 daN	blue	m	000249
7,600 daN	yellow	m	000269
7,600 daN	orange	m	000288
7,600 daN	red	m	000347

Other webbing colours available on request.

WISTRA One-way lashings

WIS hoop

The WIS hoop consists of high strength polyester yarn and offers the following advantages:

- one way strap at low cost
- high elasticity, extremely shock absorbing
- does not rust
- no risk of injury
- can easily be re-tensioned
- carrying capacity as steel strap, up to 2 t
- weatherproof
- considerably lighter than steel



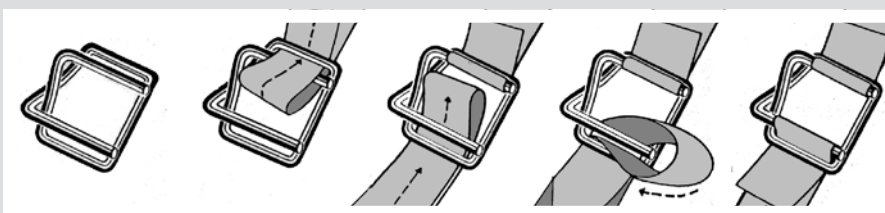
Designation	Width	Breaking force	Unit of quantity	Item No.
WIS hoop 30 S	9 mm	300 kP	1,500 m/roll	420080300000
WIS hoop 40 S	13 mm	400 kP	1,100 m/roll	420080400000
WIS hoop 50 S	16 mm	500 kP	850 m/roll	420080500000
WIS hoop 60 S	19 mm	600 kP	600 m/roll	420080600000
WIS hoop 45 S	13 mm	520 kP	800 m/roll	420080450000
WIS hoop 55 S	16 mm	700 kP	600 m/roll	420080550000
WIS hoop 65 S	19 mm	830 kP	500 m/roll	420080650000
WIS hoop 85 S	25 mm	950 kP	500 m/roll	420080850000
WIS hoop 95 S	30 mm	1170 kP	150 m/roll	420080950000
WIS hoop 105 S	35 mm	1350 kP	150 m/roll	420081050000



Designation	for webbing width	Unit of quantity	Item No.
WIS buckle B-3	9 mm	1,000 pieces/box	420300000012
WIS buckle B-4	13 mm	1,000 pieces/box	420400000012
WIS buckle B-5	16 mm	1,000 pieces/box	420500000012
WIS buckle B-6	19 mm	1,000 pieces/box	420600000012
WIS buckle B-8	25 mm	500 pieces/box	420800000012
WIS buckle B-10	35 mm	250 pieces/box	421000000012



Designation	for webbing width	Unit of quantity	Item No.
Windlass tensioner Type AVT	up to 20 mm	Pieces	420000000615



with cutting device

WISTRA one-way lashings key-lock quick lashing system



The **WISTRA** one-way lashing system is an economic alternative for commercially available lashing straps and consists of polypropylene webbing, locking buckle and a tensioning tool.

The re-usable tensioning devices guarantee easy and quick lashing.

The **KEY-LOCK system** is primarily used for securing cargo in containers, on ships, in aircraft, on trucks and on trains.



Webbing

Designation	Width	Breaking force	Unit of quantity	Item No.
Key-Lock webbing	50 mm	2,000 daN	100 m/roll	410013850070



Buckle

Designation	Width	Breaking force	Unit of quantity	Item No.
Key-Lock buckle	50 mm	2,000 daN	50 pieces	41180000015



Hand tensioner

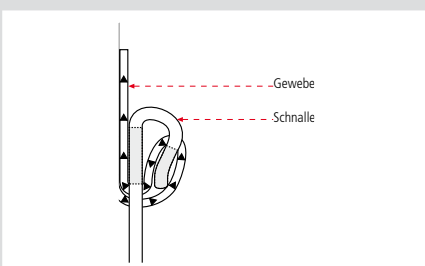


Hand tensioner
Type AVT 50

Designation	up to webbing width	Unit of quantity	Item No.
Hand tensioner	50 mm	1 pieces	410000008120
Hand tensioner Type AVT 50	50 mm	1 pieces	410000004215
Ratchet tensioner	50 mm	1 pieces	418110000112



Ratchet tensioner



Lifting technology

Lifting equipment / load securing devices according to BGR 500 Chapter 2.8

Lifting slings according to EN 1492-1 and round slings 1492-2 made of polyester according to EN 1492-2

WIS Operating Manual

The Operating Manual must have been read and understood before using lifting equipment.

Furthermore the user must absolutely be familiar with the legal and operational regulations as well as the acknowledged rules.

Improper handling of lifting equipment represents a life-threatening risk to persons and a risk of damage to goods. The risk of endangering people and/or damaging the load and/or other technical facilities must be avoided by the owner and the user.

The owner may only task trained persons to independently operate lifting equipment.

Environmental parameters must be checked as a matter of principle. This applies particularly to chemicals which could make contact with the lifting equipment directly or indirectly.

The ambient temperature in the application area and during storage must be observed (-40°C up to a maximum of 100°C)! Negative influences by for instance icing up, soiling etc. must be avoided.

Testing of the lifting equipment by a qualified and authorised person before first use must be documented.

Selection of the right lifting equipment / load securing devices

- The carrying capacity of the lifting equipment may not be exceeded.
- Lifting slings and round slings are not suitable for loads with sharp edges without the use of additional edge protectors. Damage must be avoided.
- The data of the goods to be lifted must be known: Weight as well as centre of gravity - carrying capacity of the lifting points - note the angle of inclination - observe possible bending of the load.
- Secure seating of the lifting equipment - slipping or uncoupling can lead to the load dropping or tilting.
- Use only sufficiently dimensioned and connections between the lifting point and the load securing device.
- The load securing devices are stressed differently for symmetrical or unsymmetrical loads. The inclination angle may not exceed 60°.
- When selecting the length, observe that the carrying capacity is different for differing types of lifting equipment.
- Observe usable length and material for different lifting equipment - differing lengths or stretch characteristics can lead to an asymmetrical load distribution.
- The crane or lifting device must be suitable for the lifting process.
- For lifting slings the maximum loop opening of 20° (bearing width (e.g. of the crane hook) x 3.5 = minimum loop length) may not be exceeded.
- Lifting slings and round slings must be attached so that they carry the load over the full width.
- Never twist or knot round slings or lifting slings.
- Labels must be present and legible as a matter of principle.
- You will find the following data on the label: Nominal carrying capacity, material, manufacturer identification, tracking code, specification of the applicable standard, date of manufacture, length, CE mark.

Note that the load and the lifting equipment are subject to dynamic loads during the lifting process.






Round slings



· Figure 1:7

Type	Nominal carrying capacity	Item number	NL	0.5 m	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m	3.5 m	4.0 m	4.5 m	5.0 m	6.0 m
			Extent	1.0 m	2.0 m	3.0 m	4.0 m	5.0 m	6.0 m	7.0 m	8.0 m	9.0 m	10 m	12 m
			Item number XX											
SX 10	1,000 kg	61010 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 20	2,000 kg	61020 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 30	3,000 kg	61030 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 40	4,000 kg	61040 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 50	5,000 kg	61050 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 60	6,000 kg	61060 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 80	8,000 kg	61080 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 100	10,000 kg	61100 XX 00027	-	-	-	04	05	06	07	08	09	10	12	

Carrying capacity WLL for different sling types

Type	Nominal carrying capacity					
		single direct Factor 1.0	Noose Factor 0.8	laid singly Factor 2	laid up to 45° Factor 1.4	laid up to 60° Factor 1.0
SX 10	1,000 kg	1,000 kg	800 kg	2,000 kg	1,400 kg	1,000 kg
SX 20	2,000 kg	2,000 kg	1,600 kg	4,000 kg	2,800 kg	2,000 kg
SX 30	3,000 kg	3,000 kg	2,400 kg	6,000 kg	4,200 kg	3,000 kg
SX 40	4,000 kg	4,000 kg	3,200 kg	8,000 kg	5,600 kg	4,000 kg
SX 50	5,000 kg	5,000 kg	4,000 kg	10,000 kg	7,000 kg	5,000 kg
SX 60	6,000 kg	6,000 kg	4,800 kg	12,000 kg	8,400 kg	6,000 kg
SX 80	8,000 kg	8,000 kg	6,400 kg	16,000 kg	11,200 kg	8,000 kg
SX 100	10,000 kg	10,000 kg	8,000 kg	20,000 kg	14,000 kg	10,000 kg






Lifting slings



· Figure 1:7

Type	Nominal carrying capacity	Webbing width	Item number	Length	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	12 m
				Item number XX											
MC 10	1,000 kg	30 mm	62010 XX 03021	01	02	03	04	05	06	07	08	09	10	12	
MC 20	2,000 kg	60 mm	62010 XX 06021	01	02	03	04	05	06	07	08	09	10	12	
MC 30	3,000 kg	90 mm	62010 XX 09021	01	02	03	04	05	06	07	08	09	10	12	
MC 40	4,000 kg	120 mm	62010 XX 12021	01	02	03	04	05	06	07	08	09	10	12	
MC 50	5,000 kg	150 mm	62010 XX 15021	01	02	03	04	05	06	07	08	09	10	12	
MC 60	6,000 kg	180 mm	62010 XX 18021	01	02	03	04	05	06	07	08	09	10	12	
MC 80	8,000 kg	240 mm	62010 XX 24021	01	02	03	04	05	06	07	08	09	10	12	
MC 100	10,000 kg	300 mm	62010 XX 30021	01	02	03	04	05	06	07	08	09	10	12	

Carrying capacity WLL for different sling types

Typ2	Nominal carrying capacity					
		single direct Factor 1.0	Noose Factor 0.8	laid singly Factor 2	laid up to 45° Factor 1.4	laid up to 60° Factor 1.0
MC 10	1,000 kg	1,000 kg	800 kg	2,000 kg	1,400 kg	1,000 kg
MC 20	2,000 kg	2,000 kg	1,600 kg	4,000 kg	2,800 kg	2,000 kg
MC 30	3,000 kg	3,000 kg	2,400 kg	6,000 kg	4,200 kg	3,000 kg
MC 40	4,000 kg	4,000 kg	3,200 kg	8,000 kg	5,600 kg	4,000 kg
MC 50	5,000 kg	5,000 kg	4,000 kg	10,000 kg	7,000 kg	5,000 kg
MC 60	6,000 kg	6,000 kg	4,800 kg	12,000 kg	8,400 kg	6,000 kg
MC 80	8,000 kg	8,000 kg	6,400 kg	16,000 kg	11,200 kg	8,000 kg
MC 100	10,000 kg	10,000 kg	8,000 kg	20,000 kg	14,000 kg	10,000 kg

Lashing straps - stagecraft

WISTRA WTR 5000 pressure ratchet lashing strap – Stagecraft

- Normal tension force S_{TF} 350 daN for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2,500 daN in straight tension
- manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 811 – black (ratchet with arrester)
- End-fittings – black
- Design with inside label
- Strap 50 mm – durable due to PU coated webbing (PES)



Standard version	Short designation	Item No.
single-part – 6.0 m black webbing BT	WTR 5000- single-part 6.0 black BT	1500349
with end-fitting 006 - black		
two-part – FE 0.4 m + LE 5.6 m black webbing BT	WTR 5000-006 0.4+5.6 black BT	1500909

WISTRA WTR 4000 pressure ratchet lashing strap – Stagecraft

- Normal tension force S_{TF} 350 daN for normal hand force S_{HF} 50 daN
- Lashing capacity LC 2,000 daN in straight tension
- manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 811 – black (Ratchet with arrester)
- End-fittings – black
- Design with inside label
- Strap 50 mm – durable due to PU coated webbing (PES)



Standard version	Short designation	Item No.
single-part– 6.0 m black webbing BT	WTR 4000- single-part 6.0 black BT	1500455
with end-fitting 006 - black		
two-part – FE 0.4 m + LE 5.6 m black webbing BT	WTR 5000-006 0.4+5.6 black BT	1500998

WISTRA WTR 2000 pressure ratchet lashing strap – Stagecraft

- Normal tension force S_{TF} 240 daN for normal hand force S_{HF} 50 daN
- Lashing capacity LC 1,000 daN in straight tension
- manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 908 – black (Ratchet with arrester)
- Design with inside label
- Strap 35 mm – durable due to PU coated webbing (PES)



Standard version	Short designation	Item No.
single-part – 6.0 m black webbing BT	WTR 2000- single-part 6.0 black BT	1350104

WISTRA WTR 1000 pressure ratchet lashing strap – Stagecraft

- Normal tension force S_{TF} 200 daN for normal hand force S_{HF} 50 daN
- Lashing capacity LC 500 daN in straight tension
- manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 915 – black
- End-fittings – black
- Design with inside label
- Strap 25 mm – durable due to PU coated webbing (PES)



Standard version	Short designation	Item No.
single-part – 6.0 m black webbing BT	WTR 1000- single-part 6.0 black BT	1250336
with end-fitting 002 - black		
two-part – FE 0.2 m + LE 5.8 m black webbing BT	WTR 1000-002 0.2+5.8 black BT	1250333

WISTRA WTK 400 clamp lock lashing strap – Stagecraft

- Lashing capacity LC 200 daN in straight tension
- manufactured and tested in terms of EN 12195-2: current version
- [Tensioning element ratchet 804 – black](#)
- End-fittings – black
- Design with inside label
- Strap 25 mm – durable due to PU coated webbing (PES)



Standard version	Short designation	Item No.
single-part – 2.0 m black webbing BT	WTK 400- single-part 2.0 black BT	1250335
single-part – 6.0 m black webbing BT	WTK 400- single-part 6.0 black BT	1250334
with end-fitting 002 - black		
two-part – FE 0.2 m + LE 5.8 m black webbing BT	WTK 400-002 0.2+5.8 black BT	1250332

Lifting technology - Stagecraft

Round slings - Stagecraft

- Round slings in acc. with EN 1492-2
- PES webbing – Protective hose black



· Figure 1:7

Nominal carrying capacity	Item No.	NL	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m
		Circumference	2.0 m	3.0 m	4.0 m	6.0 m	8.0 m
			Item No. XX				
1000 kg	61010 XX 08827	02	03	04	-	-	
2000 kg	61020 XX 08827	02	03	04	06	08	

Webbing loops - Stagecraft

- Webbing loops in acc. with EN 1492-1
- PES webbing – black



· Figure 1:7

Nominal carrying capacity	Layers	Strap width	Dimensions	Item No.
1000 kg	2 layers	30 mm	1.0 m effective length/2.0 m circumference	62010005
1000 kg	2 layers	30 mm	2.0 m effective length/4.0 m circumference	62010004

Lifting slings - Stagecraft

- Lifting straps in acc. with EN 1492-1
- PES webbing – black



· Figure 1:7

Nominal carrying cap.	Webbing width	Item No.	Length	1.0 m	1.5 m	2.0 m	3.0 m	4.0 m
			Item No. XX					
1000 kg	30 mm	62010 XX 08821		01	-	02	-	-