

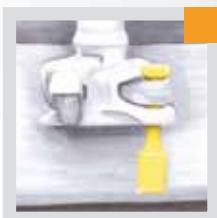
For your valuable load:  
Security with a system.



Textile load securing



Mechanical load securing



Security



Door gears

# Deployed all over Europe



## Visit us in the internet

You will get updated information on our web page. You will find all products and news clearly arranged.

Furthermore we have prepared PDF files for all product groups, which you can download conveniently.

[www.wistra.eu](http://www.wistra.eu)

Version February 2014

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WISTRA GmbH

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## ■ Mechanical load securing

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# Our experience guarantees your safety!



Peter Wiskow



Mark Zubel

## Dear customer,

We are pleased to present our Catalogue 2012 to you.

On the following pages you will be able to acquaint yourself with WISTRA GmbH.

In the individual categories you can get an impression of the capability of our modern company and of our products and services.

Besides our well known products we present the latest product developments and accessories of our product range.

We look forward to cooperate with you and wish you pleasant browsing in our catalogue.

Your

Your

Managing Director of WISTRA GmbH



WISTRA company building in Lübeck-Selmsdorf

## The company

More than 25 years WISTRA GmbH. More than 25 years of quality, continuous further development and technical modernisation.

During these years we have continuously expanded our range of products, thanks to the demands of our customers on our products. This close cooperation with our customers has resulted in a number of special products being developed as standard products in our range of products. In this way we can offer you products for all aspects of load securing and safety, which have already been proven in practice.

In international and global business and movement of goods it is of importance to us that our products and services always comply with new requirements. We employ highly skilled specialists in our team of 50 permanent employees in order to meet these increased requirements.

With their dedication they will in future ensure that our company remains successful in the market with excellent products.

### 1986

Founding of the WISTRA company by Mr. Peter Wiskow. World-wide sales under license of the Powerbrace door gears.

### 1988

Foundation of WISTRA GmbH Transport-Sicherheit-Systeme. Sales of load securing systems.

### 1991

Relocation to the new building in the industrial area Lübeck-Selmsdorf as new company head office with production facility for load securing systems.

### 1993

WISTRA is the official supplier of customs seals in the German customs domain.

### 1994

Start of the Far East cooperation as an additional production site.

### 1997

Certification in terms of DIN EN ISO 9002. Introduction of own Quality Management.

### 1998

Expansion and development of the Production department for textile load securing at the Lübeck-Selmsdorf site.

# Certified safety in development and production



View of Production

## Production

Almost all products of textile and mechanical load securing are developed and designed by us.

Competent specialists ensure the installation and production of all our products in compliance with quality requirements with our modern machinery.

Years of cooperation with companies in the Far East and Eastern Europe allow us to offer you an excellent price-performance ratio.

As a result of this cooperation we can already offer you a broad spectrum of special solutions, like for instance the products of the POWER-BRACE door brace series, which are manufactured under licence of an American development

and marketed by us. In the area of security seals and theft protection we can offer you a broad spectrum of practice-proven products.

You will certainly find the right solution for your individual requirements at WISTRA!

## Quality

All products of the WISTRA product range are subjected to stringent safety tests.

Our Quality Management forms the basis for guaranteeing our consistently high quality.

Most of the products in our program are subjected to extraordinary continuous loading. Therefore the materials processed by us have been subjected to extensive test series all along.

This is pure safety for our customers.



Materialprüfung bei WISTRA



### 2002

Development of the sales network by the establishment of further cooperation in Eastern Europe.

### 2004

Increase of the production capacity through the acquisition of further automatic sewing machines.

### 2006

Mark Zubel is appointed in company management.

### 2007

Founding of a subsidiary in the Baltic states, Wistra u.a.b.

### 2008

Expansion of the warehouse and production area by 1,600 m<sup>2</sup>.

### 2009

Sales cooperation on the Russian market

### 2012

Implementation of most modern fully automatic sewing machines for the expansion of production capacity and flexibility

# Overview of our security program



## Textile load securing

Our decades of experience and the continuous further development and supplementation of our product range enable us to offer you exceptionally designed solutions for textile load securing.

Be it air, water, rail or road - we have solutions for the individual requirements of your company regarding load securing.

Daily deployment under the most varied conditions proves the high degree of reliability of our products and affirms us in the application of the latest thermal processes.

WISTRA lashing straps are manufactured according to the current state of the art in terms of DIN EN 12 195-2 and are GS-certified to a large extent.

Our patented SAFEGUARD load securing nets are developed specifically for transportation goods, adapted and made up individually.

Many logistics companies, amongst them Deutsche Post, GLS and Hermes, use our SAFEGUARD nets successfully in the areas railway, post, parcel service and general cargo.



Renowned logistics companies rely on WISTRA products



Example: Cargo nets to hold down loads

## Mechanical load securing

We have developed customs-proven load securing devices of the highest level in cooperation with the Customs Crime Institute.

The patented WISTRA shore beam POWERSTOP resulted from this, which is used to seal cavities in vehicles and can withstand loads of up to 2.5 t.

POWERSTOP is a real Hercules among load securing systems and is mainly used in the combined load traffic on road and rail.

The rigid load securing devices are generally summarised in the mechanical load securing product group. We protect the cargo in all vehicles safely and in form-fit shape.

WISTRA has designed many of these products as unit construction systems. This enables the use of various load securing devices for the rails and wall panels currently installed in vehicles.

## For vans and trailers

Textile load securing systems such as lashing straps and particularly cargo nets from the SAFE-GUARD series form part of the program for vans and trailers. These nets are available in many standard versions proven during practical experience as well as individual solutions according to customer requirements.

WISTRA cargo nets can be used to partition cargo space, rear load securing and tying down. They can be fixed to the standard lashing points mounted by the vehicle manufacturer. Matching end-fittings can be found in the chapter End-fittings in this catalogue.

Of course all other load securing systems, such as shoring beams and lashing straps, can be adapted to vans and trailers. All WISTRA systems offer easy installation in the tracks and wall panels already mounted in the vehicles. WISTRA thereby offers a complete and individual solution for load securing in vans and trailers.

Feel free to request a solution proposal for your special transport securing system. Our specialist team will be happy to offer advice and to prepare a corresponding offer for you.



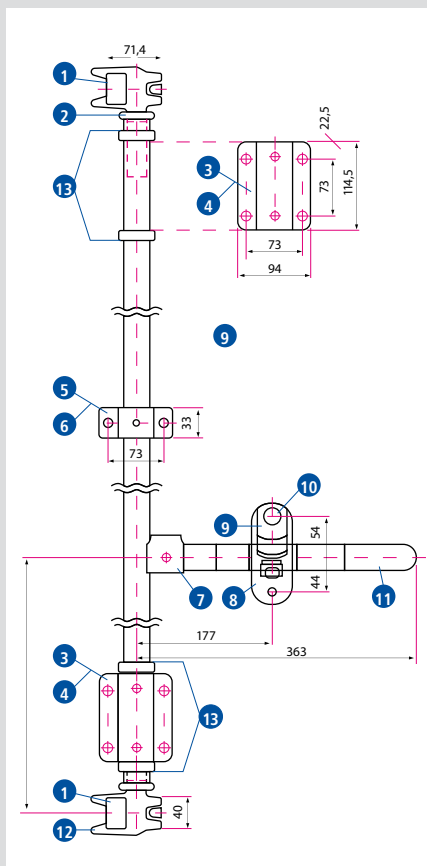
## Door gears

The door gears from our POWERBRACE series are well suited for containers boxes and compact vehicles as well as swap bodies.

WISTRA door gears are designed and constructed for extreme conditions. Even if a door has not been closed properly it cannot open. The "over centre action" prevents the door from opening.

The POWERBRACE door gears are very slim and their main feature is the extreme gathering capability (both horizontally and vertically).

POWERBRACE - this means: security in the transport units, even before loading the goods.



Matured mechanical engineering



Powerbrace door gears with a patented locking action

## Security seals/ theft protection

Owing to the the opening of many borders for national and international trade, the requirements for a safe transport of goods are increasing.

WISTRA has for a long time prepared for this situation and offers a broad product range of security seals for your requirements regarding load securing.

WISTRA is one of the few authorised suppliers of the customs seal Mini Breakaway in the area of jurisdiction of the German Customs Act.

Wistra has compiled an extensive program of theft prevention systems in order to curb theft and manipulation. They are conceptualised in such a way that the entire means of transport is protected, at the same time preventing unauthorised access to the cargo.



Theft protection for every means of transport

## Lifting technology

The lifting technology range of WISTRA comprises round slings and lifting slings with reinforced end slings.

They are only manufactured from tested material in order to meet the highest demands.

Our round slings and lifting slings range in load bearing capacity from 1,000 to 10,000 kg.

Our lifting slings and round slings are manufactured according to current standards and are available in various lengths.



## Consultation, analysis and implementation

WISTRA convinces when it comes to individual solutions for difficult transportation tasks.

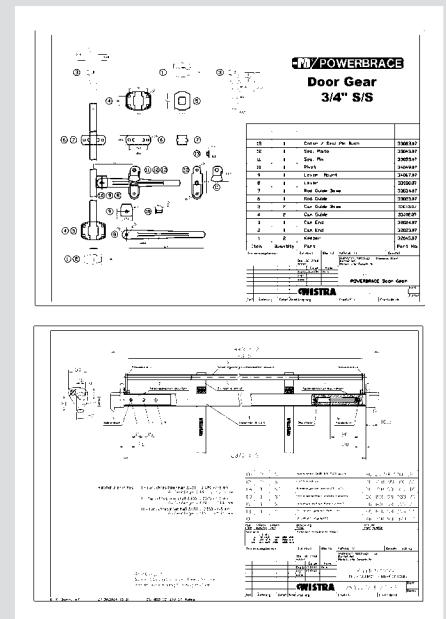
The WISTRA development engineers analyse the specific tasks on site together with the customer and develop individual transport securing concepts.

Thanks to our close contact with forwarders and manufacturers we are in a position to develop quick and specific solutions.

WISTRA dispose of a high standard of technical expertise regarding transport and load securing and use their wealth of experience with products and transport routes to work out optimal security systems.



Competent and detailed consultation, on site or on our premises



## Wistra training

More than 25 years of intensive analysis of all aspects of the topic of load securing have resulted in a lot of technical know-how and experience.

In our seminars on the topic of load securing in terms of VDI Guideline 2700 (a) we gladly share our technical know-how and experience with our customers and prospects.

Quite often these seminars help in clarifying upfront, which load securing systems would be the best choice for the relevant requirements.

We have prepared these topics for you:

- Basic theoretical knowledge in the field of "StVO", "StVzo", "HGB", "UVV", "VDI" or "DIN" and "EN"
- Physical basic knowledge
- Practical advice and demonstration

Call us for a training session.

## Special requests

Various special products represent a special advantage for you.

WISTRA can for instance supply lashing strap material in all colours and lengths, if they do not appear in this catalogue.

Upon your request we can supply many items with your company logo and/or company name.

Even customer-specific special products represent solvable challenges to us.

If you do not find an item in this catalogue, please contact us.

Together we will surely find the right solution for you.

# WISTRA training trailer

## Technical knowledge for your events

Distinguish yourself from other providers and use the WISTRA demo trailer as an attraction for your next customer event.

Use our trailer and our qualified consultants to draw potential and existing customers.

Present your visitors with useful technical knowledge at no cost and stay in their minds.

You can create a lot of added value for your visitors, even without a huge framework event, and put yourself ahead of other competitors with this special service - just by using our WISTRA demo-trailer.

We provide the trailer with our qualified consultants for training purposes as added value for every sales and exhibition stand. The costs are based on actual costs for the deployment.

Call us to arrange a date!



Numerous exhibits, samples and training material - presented in just a few minutes

## WISTRA Service

Eye-catching information on the current topic are an efficient attraction. Our training trailer with qualified consultants is available for your events.

# WISTRA App – the proven lashing strap slider as application



WISTRA app icon

Calculate the required number of lashing straps to tie down a stable load or use the form-fit calculator to determine the maximum load unit weights, based on the maximum blocking capacity of the form-fit device.

The menu of the app is intuitive and practical. The data of the integrated angle meter can be taken over directly for the exact calculation as an efficient tool.

You can find further aids regarding load securing in the information of both areas.

It is our goal that you reach your destination safely!

<http://itunes.apple.com/de/app/wistraapp/id442392262?mt=8>



## Lashing strap calculator

tying down stable loads

- Selection of additional STF values up to 2,000 daN initial tension
- Load weights up to 30 t – New – infinitely variable in 0.1 t steps!
- Reference table of sliding friction coefficients included for information



## Form-fit calculator

- Form-fit calculator up to 10,000 daN blocking capacity
- Sliding friction coefficient setting from 0.0 to 0.6  $\mu$ D in 0.1 steps
- Reference table of sliding friction coefficients included for information



# 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.

We offer two versions as a further aid in the calculation:

- WISTRA lashing strap slider
- the WISTRA APP lashing strap calculator



# 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

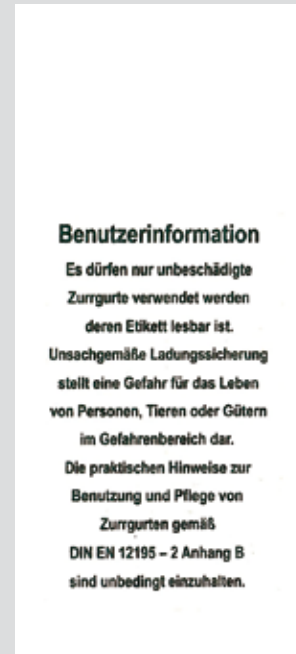
- **Lashing Capacity:**  
LC value in daN
- **Warning:**  
May not be used for lifting!
- **Material specification:**  
PES (for lashing straps with polyester webbing)
- **Stretching of the lashing strap in % for LC value**
- **Name or symbol of the manufacturer**



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

- **WIS tracking code**
- **Standard specification:** EN 12195-2
- **Year of manufacture**

## User information, Additional label and User Manual



Reverse side



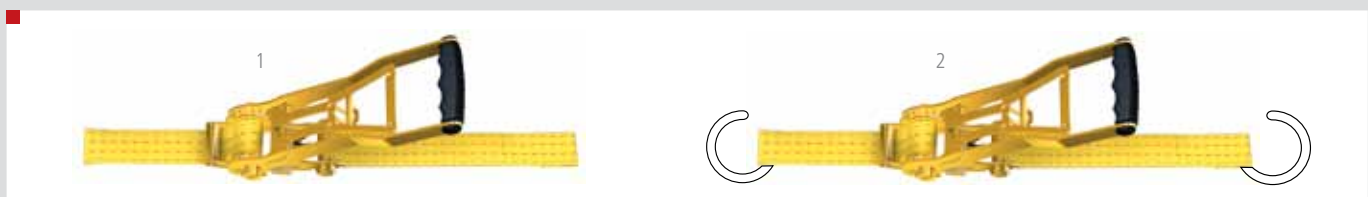
Front side

## 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

1. 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 100 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  $500\text{ N} = 50\text{ daN}$  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  $50\text{ daN}$ .



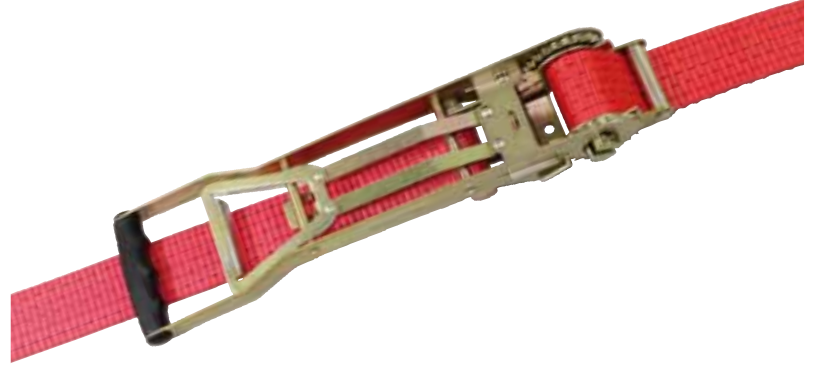
# Lashing straps · Heavy duty lashing straps

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

350 daN	450 daN	550 daN	700 daN	900 daN	1100 daN
WTQ 5350	WTQ 5450	WTU 10550	WTN 3700	WTE 545A	WTL 555A
WTQ 4350	WTQ 4450	WTQ 5550	WTR 535A		
WTR 5000	WTE 5450	WTQ 4550			
WTR 4000	WTE 4450	WTL 5550			
WTF 5350	WTF 5450	WTL 4550			
		WTF 5550			

### Sorted according to LC in straight tension

1600 daN	2000 daN	2500 daN	5000 daN
WTN 3700	WTQ 4550	WTQ 5550	WTR 10000
	WTQ 4450	WTQ 5450	WTU 10550
	WTQ 4350	WTQ 5350	
	WTL 4550	WTL 5550	
	WTE 4450	WTE 5450	
	WTR 4000	WTR 5000	
		WTF 5000	
		WTR 535A	
		WTE 545A	
		WTL 555A	

## WISTRA WTR 10000 pressure ratchet lashing strap

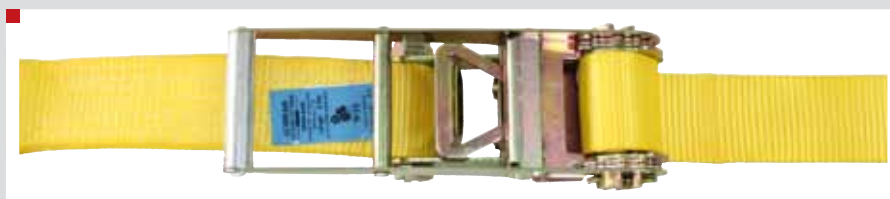
- Lashing capacity LC 5,000 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- [Tensioning element ratchet 975](#)
- Strap – durable due to PU coated webbing (PES)

End-fittings:



067

More end-fittings on pages 90 to 98.



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

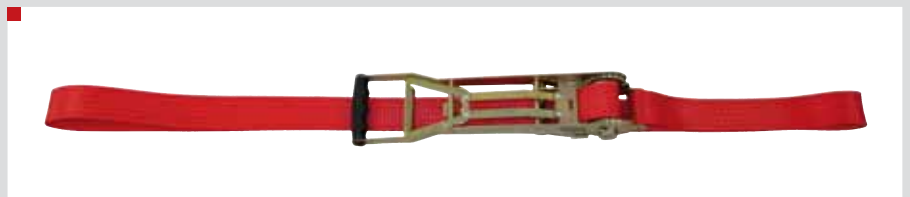
## WISTRA WTR 10550 tension ratchet lashing strap

- Normal tension force  $S_{TF}$  550 daN  
for normal hand force  $S_{HF}$  50 daN
- Lashing capacity LC 5,000 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)

End-fittings:



More end-fittings on pages 90 to 98.



Standard version	Short designation	Item No.
<b>with end-fitting 067 - pointed hook</b>		
single-part - application 1.0 m to 4.0 m red webbing	WTU 10550-067 1.0/4.0 red	<b>1501031</b>
single-part - application 1.0 m to 8.0 m red webbing	WTU 10550-067 1.0/8.0 red	<b>1501032</b>

## 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



Quick View Label

### Accessories



Edge protection

#### 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

Strap 50 mm - due to special surface coating, water does not penetrate into the polyester webbing (PES) and guarantees optimal application characteristics even with winter temperatures.

#### 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



Anti-slip mat

End-fittings:



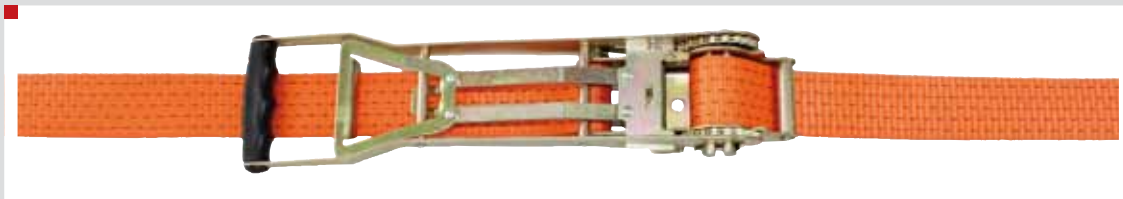
You can find additional end-fittings with a minimum breaking force MBL 5,000 daN on pages 90 to 98.

### 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	<b>1501033</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m lemon yellow webbing	WTQ 555K-006 0.5+7.5 lemon yellow	<b>1501034</b>
two-part – FE 0.5 m + LE 8.5 m lemon yellow webbing	WTQ 555K-006 0.5+8.5 lemon yellow	<b>1501035</b>
two-part – FE 0.5 m + LE 9.5 m lemon yellow webbing	WTQ 555K-006 0.5+9.5 lemon yellow	<b>1501036</b>
two-part – FE 0.5 m + LE 11.5 m lemon yellow webbing	WTQ 555K-006 0.5+11.5 lemon yellow	<b>1501037</b>

### 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	<b>1501038</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 555W-006 0.5+7.5 orange	<b>1501039</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 555W-006 0.5+8.5 orange	<b>1501040</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 555W-006 0.5+9.5 orange	<b>1501041</b>
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 555W-006 0.5+11.5 orange	<b>1501042</b>

### 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	<b>1501043</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 555R-006 0.5+7.5 orange	<b>1501044</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 555R-006 0.5+8.5 orange	<b>1501045</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 555R-006 0.5+9.5 orange	<b>1501046</b>
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 555R-006 0.5+11.5 orange	<b>1501047</b>

## WISTRA WTQ 5450 tension ratchet lashing strap

- Normal tension force  $S_{TF}$  450 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 814
- Version with additional quick view label
- Can be supplied with factory certificate / test certificate



Quick View Label

### Accessories



Strap rolling-up system



Parking device

### WISTRA WTQ 545K 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 545W tension ratchet lashing strap

Version with water-repelling webbing

Strap 50 mm - due to special surface coating, water does not penetrate into the polyester webbing (PES) and guarantees optimal application characteristics even with winter temperatures.

### WISTRA WTQ 545R tension ratchet lashing strap

Version with two reflective strips in the webbing

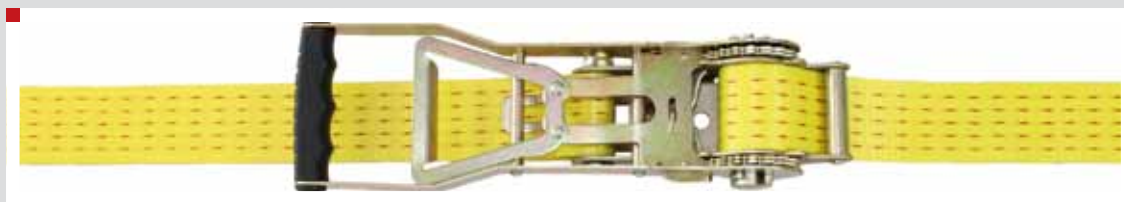
Strap 50 mm - visual emphasis as a result of the two reflective strips

End-fittings:



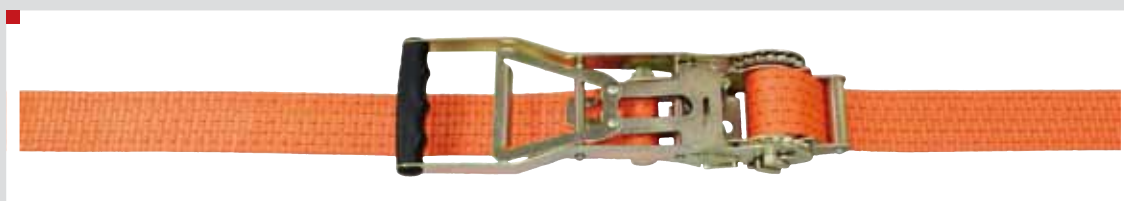
You can find additional end-fittings with a minimum breaking force MBL 5,000 daN on pages 90 to 98.

### WISTRA WTQ 545K tension ratchet lashing strap



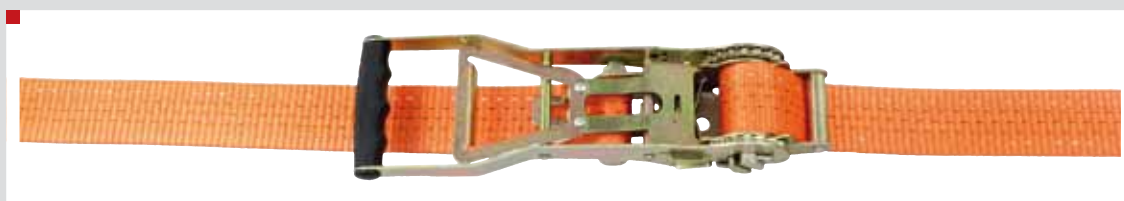
Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 545K single-part 8.0 lemon yellow	<b>1501048</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m lemon yellow webbing	WTQ 545K-006 0.5+7.5 lemon yellow	<b>1501049</b>
two-part – FE 0.5 m + LE 8.5 m lemon yellow webbing	WTQ 545K-006 0.5+8.5 lemon yellow	<b>1501050</b>
two-part – FE 0.5 m + LE 9.5 m lemon yellow webbing	WTQ 545K-006 0.5+9.5 lemon yellow	<b>1501051</b>
two-part – FE 0.5 m + LE 11.5 m lemon yellow webbing	WTQ 545K-006 0.5+11.5 lemon yellow	<b>1501052</b>

### WISTRA WTQ 545W tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 545W single-part 8.0 m orange	<b>1501053</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 545W-006 0.5+7.5 orange	<b>1501054</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 545W-006 0.5+8.5 orange	<b>1501055</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 545W-006 0.5+9.5 orange	<b>1501056</b>
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 545W-006 0.5+11.5 orange	<b>1501057</b>

### WISTRA WTQ 545R tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 545R single-part 8.0 orange	<b>1501058</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 545R-006 0.5+7.5 orange	<b>1501059</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 545R-006 0.5+8.5 orange	<b>1501060</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 545R-006 0.5+9.5 orange	<b>1501061</b>
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 545R-006 0.5+11.5 orange	<b>1501062</b>

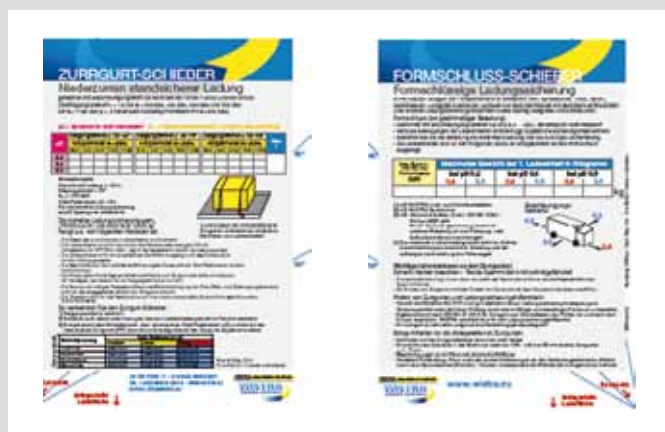
## WISTRA WTQ 5350 pressure ratchet lashing strap

- 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



Quick View Label

### Accessories



Lashing strap slider



Edge protection

### End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN on pages 90 to 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

Strap 50 mm - due to special surface coating, water does not penetrate into the polyester webbing (PES) and guarantees optimal application characteristics even with winter temperatures.

### 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

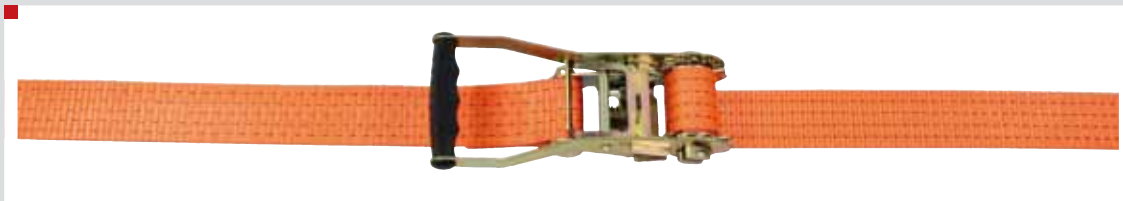


### WISTRA WTQ 535K pressure ratchet lashing strap



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

### 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	<b>1501007</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 5.5 m orange webbing	WTQ 535W-006 0.5+5.5 orange	<b>1500688</b>
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 535W-006 0.5+7.5 orange	<b>1501008</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 535W-006 0.5+8.5 orange	<b>1501009</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 535W-006 0.5+9.5 orange	<b>1501010</b>

### 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	<b>1501012</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 535R-006 0.5+7.5 orange	<b>1501013</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 535R-006 0.5+8.5 orange	<b>1501014</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 535R-006 0.5+9.5 orange	<b>1501015</b>
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 535R-006 0.5+11.5 orange	<b>1501016</b>

## WISTRA WTQ 4550 tension ratchet lashing strap

- Normal tension force  $S_{TF}$  550 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 818
- Version with additional quick view label
- Can be supplied with factory certificate / test certificate

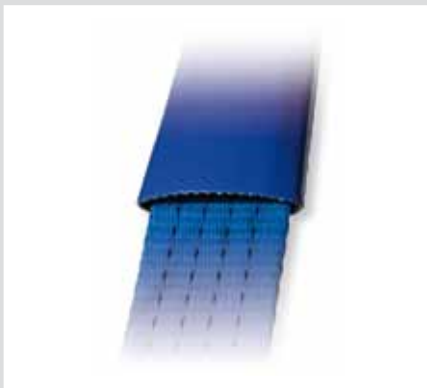


Quick View Label

### Accessories



Edge protection, steel



Edge protection hose, rubberised

### WISTRA WTQ 455K 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 455W tension ratchet lashing strap

Version with water-repelling webbing

Strap 50 mm - due to special surface coating, water does not penetrate into the polyester webbing (PES) and guarantees optimal application characteristics even with winter temperatures.

### WISTRA WTQ 455R 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:



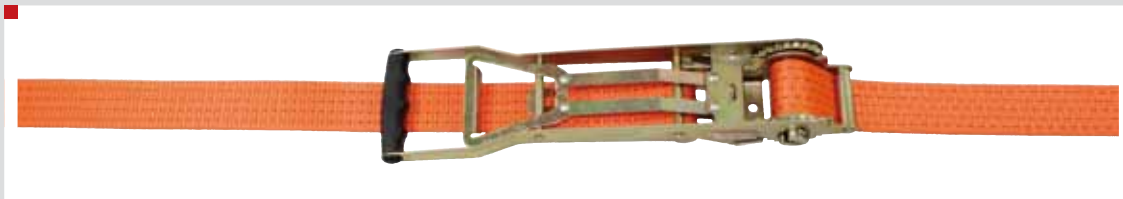
You can find additional end-fittings with a minimum breaking force MBL 4,000 daN on pages 90 to 98.

### WISTRA WTQ 455K tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 455K single-part 8.0 lemon yellow	<b>1501063</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m lemon yellow webbing	WTQ 455K-006 0.5+7.5 lemon yellow	<b>1501064</b>
two-part – FE 0.5 m + LE 8.5 m lemon yellow webbing	WTQ 455K-006 0.5+8.5 lemon yellow	<b>1501065</b>
two-part – FE 0.5 m + LE 9.5 m lemon yellow webbing	WTQ 455K-006 0.5+9.5 lemon yellow	<b>1501066</b>
two-part – FE 0.5 m + LE 11.5 m lemon yellow webbing	WTQ 455K-006 0.5+11.5 lemon yellow	<b>1501067</b>

### WISTRA WTQ 455W tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 455W single-part 8.0 m orange	<b>1501068</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 455W-006 0.5+7.5 orange	<b>1501069</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 455W-006 0.5+8.5 orange	<b>1501070</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 455W-006 0.5+9.5 orange	<b>1501071</b>
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 455W-006 0.5+11.5 orange	<b>1501072</b>

### WISTRA WTQ 455R tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 455R single-part 8.0 orange	<b>1501073</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 455R-006 0.5+7.5 orange	<b>1501074</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 455R-006 0.5+8.5 orange	<b>1501075</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 455R-006 0.5+9.5 orange	<b>1501076</b>
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 455R-006 0.5+11.5 orange	<b>1501077</b>

## WISTRA WTQ 4450 tension ratchet lashing strap

- Normal tension force  $S_{TF}$  450 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 814
- Version with additional quick view label
- Can be supplied with factory certificate / test certificate



Quick View Label

### Accessories



Lashing strap app



Ratchet base

### End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 4,000 daN on pages 90 to 98.

### WISTRA WTQ 445K 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 445W tension ratchet lashing strap

Version with water-repelling webbing

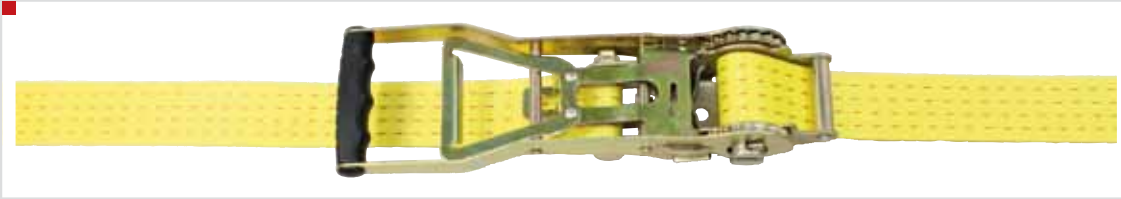
Strap 50 mm - due to special surface coating, water does not penetrate into the polyester webbing (PES) and guarantees optimal application characteristics even with winter temperatures.

### WISTRA WTQ 445R 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

### WISTRA WTQ 445K tension ratchet lashing strap



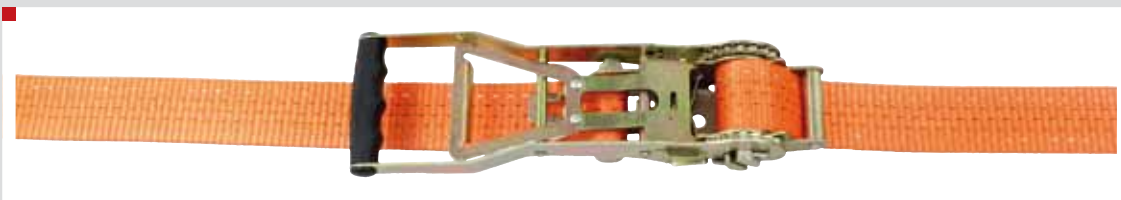
Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 445K single-part 8.0 lemon yellow	<b>1501078</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m lemon yellow webbing	WTQ 445K-006 0.5+7.5 lemon yellow	<b>1501079</b>
two-part – FE 0.5 m + LE 8.5 m lemon yellow webbing	WTQ 445K-006 0.5+8.5 lemon yellow	<b>1501080</b>
two-part – FE 0.5 m + LE 9.5 m lemon yellow webbing	WTQ 445K-006 0.5+9.5 lemon yellow	<b>1501081</b>
two-part – FE 0.5 m + LE 11.5 m lemon yellow webbing	WTQ 445K-006 0.5+11.5 lemon yellow	<b>1501082</b>

### WISTRA WTQ 445W tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 445W single-part 8.0 m orange	<b>1501083</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 445W-006 0.5+7.5 orange	<b>1501084</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 445W-006 0.5+8.5 orange	<b>1501085</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 445W-006 0.5+9.5 orange	<b>1501086</b>
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 445W-006 0.5+11.5 orange	<b>1501087</b>

### WISTRA WTQ 445R tension ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 445R single-part 8.0 orange	<b>1501088</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 445R-006 0.5+7.5 orange	<b>1501089</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 445R-006 0.5+8.5 orange	<b>1501090</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 445R-006 0.5+9.5 orange	<b>1501091</b>
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 445R-006 0.5+11.5 orange	<b>1501092</b>

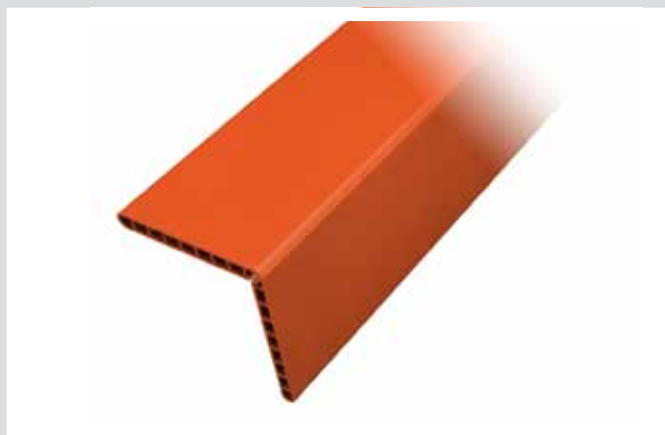
## WISTRA WTQ 4350 pressure ratchet lashing strap

- 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
- Version with additional quick view label
- Can be supplied with factory certificate / test certificate



Quick View Label

### Accessories



Edge protection



Rolling-up system

### End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 4,000 daN on pages 90 to 98.

### WISTRA WTQ 435K 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 435W pressure ratchet lashing strap

Version with water-repelling webbing

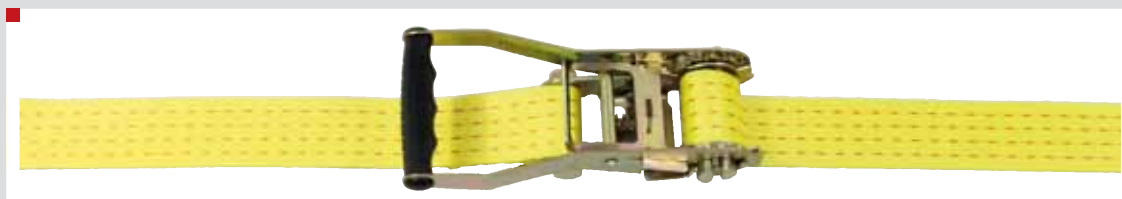
Strap 50 mm - due to special surface coating, water does not penetrate into the polyester webbing (PES) and guarantees optimal application characteristics even with winter temperatures.

### WISTRA WTQ 435R pressure ratchet lashing strap

Version with two reflective strips in the webbing

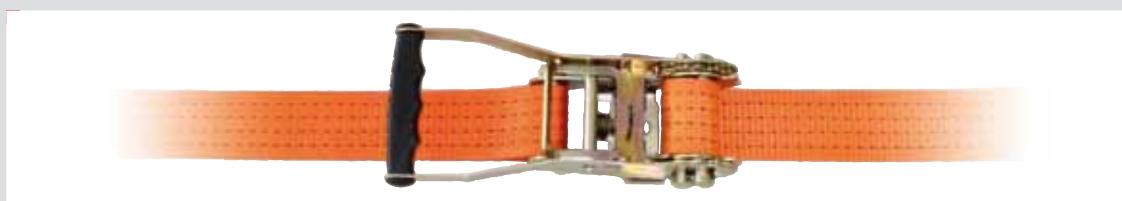
Strap 50 mm - visual emphasis as a result of the two reflective strips

### WISTRA WTQ 435K pressure ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 435K single-part 8.0 lemon yellow	<b>1501017</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m lemon yellow webbing	WTQ 435K-006 0.5+7.5 lemon yellow	<b>1501018</b>
two-part – FE 0.5 m + LE 8.5 m lemon yellow webbing	WTQ 435K-006 0.5+8.5 lemon yellow	<b>1501019</b>
two-part – FE 0.5 m + LE 9.5 m lemon yellow webbing	WTQ 435K-006 0.5+9.5 lemon yellow	<b>1501020</b>
two-part – FE 0.5 m + LE 11.5 m lemon yellow webbing	WTQ 435K-006 0.5+11.5 lemon yellow	<b>1501021</b>

### WISTRA WTQ 435W pressure ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 435W single-part 8.0 m orange	<b>1501022</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 435W-006 0.5+7.5 orange	<b>1501023</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 435W-006 0.5+8.5 orange	<b>1501024</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 435W-006 0.5+9.5 orange	<b>1501025</b>
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 435W-006 0.5+11.5 orange	<b>1501026</b>

### WISTRA WTQ 435R pressure ratchet lashing strap



Standard version	Short designation	Item No.
single-part - 8.0 m	WTQ 435R single-part 8.0 orange	<b>1501027</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m orange webbing	WTQ 435W-006 0.5+7.5 orange	<b>1501028</b>
two-part – FE 0.5 m + LE 8.5 m orange webbing	WTQ 435W-006 0.5+8.5 orange	<b>1501029</b>
two-part – FE 0.5 m + LE 9.5 m orange webbing	WTQ 435W-006 0.5+9.5 orange	<b>1501093</b>
two-part – FE 0.5 m + LE 11.5 m orange webbing	WTQ 435W-006 0.5+11.5 orange	<b>1501094</b>

## 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)

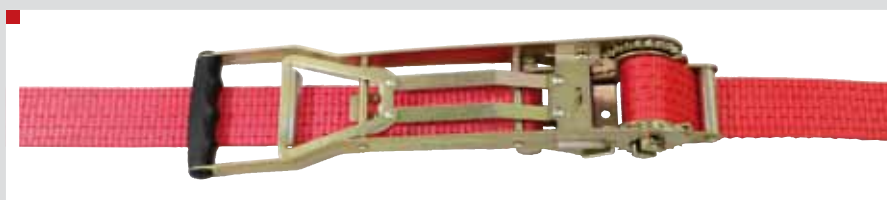


End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN on pages 90 to 98.

Optional with Quick View Label



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

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



## WISTRA WTE 5450 tension ratchet lashing strap

- Normal tension force  $S_{TF}$  450 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 814
- 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 on pages 90 to 98.

Optional with Quick View Label



Standard version	Short designation	Item No.
single-part - 6.0 m red webbing	WTE 5450 single-part 6.0 red	<b>1501496</b>
single-part - 8.0 m red webbing	WTE 5450 single-part 8.0 red	<b>1506606</b>
single-part - 10.0 m red webbing	WTE 5450 single-part 10.0 red	<b>1506607</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.4 m + LE 5.6 m red webbing	WTE 5450-006 0.4+5.6 red	<b>11814090060456</b>
two-part – FE 0.4 m + LE 7.6 m red webbing	WTE 5450-006 0.4+7.6 red	<b>11814090060476</b>
two-part – FE 0.4 m + LE 8.6 m red webbing	WTE 5450-006 0.4+8.6 red	<b>11814090060486</b>
two-part – FE 0.4 m + LE 9.6 m red webbing	WTE 5450-006 0.4+9.6 red	<b>11814090060496</b>
two-part – FE 0.4 m + LE 11.6 m red webbing	WTE 5450-006 0.4+11.6 red	<b>118140900604116</b>
Fixed end 0.4 m red webbing	WTE 5450-006 FE 0.4 red	<b>11814090060400</b>
Loose end 5.6 m red webbing	WTR 5000-006 FE 5.6 red	<b>11000090060056</b>
Loose end 7.6 m red webbing	WTR 5000-006 FE 7.6 red	<b>11000090060076</b>
Loose end 8.6 m red webbing	WTR 5000-006 FE 8.6 red	<b>11000090060086</b>
Loose end 9.6 m red webbing	WTR 5000-006 FE 9.6 red	<b>11000090060096</b>
Loose end 11.6 m red webbing	WTR 5000-006 FE 11.6 red	<b>110000900600116</b>
<b>with end-fitting 006 - pointed hook, loose ends with individual "print"</b>		
two-part – FE 0.4 m + LE 5.6 m red webbing	WTE 5450-006 0.4+5.6 red "print"	<b>1506632</b>
two-part – FE 0.4 m + LE 7.6 m red webbing	WTE 5450-006 0.4+7.6 red "print"	<b>1500691</b>
two-part – FE 0.4 m + LE 8.6 m red webbing	WTE 5450-006 0.4+8.6 red "print"	<b>1506626</b>
two-part – FE 0.4 m + LE 9.6 m red webbing	WTE 5450-006 0.4+9.6 red "print"	<b>1506621</b>
two-part – FE 0.4 m + LE 11.6 m red webbing	WTE 5450-006 0.4+11.6 red "print"	<b>1506614</b>

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

## WISTRA WTL 4550 tension ratchet lashing strap

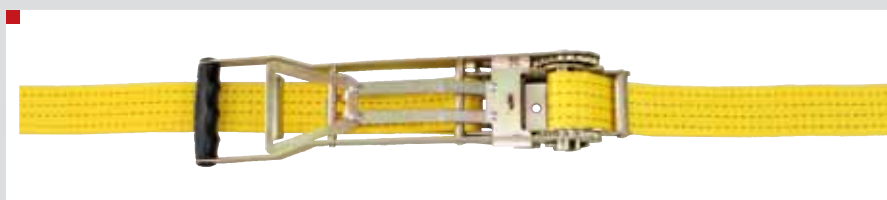
- Normal tension force  $S_{TF}$  550 daN  
for normal hand force  $S_{HF}$  50 daN
- Lashing capacity LC 2,000 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 818
- Strap 50 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 4,000 daN on pages 90 to 98.

Optional with Quick View Label



Standard version	Short designation	Item No.
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.5 m + LE 7.5 m yellow webbing	WTL 4550-006 0.5+7.5 yellow	<b>1502630</b>
two-part – FE 0.5 m + LE 9.5 m yellow webbing	WTL 4550-006 0.5+9.5 yellow	<b>1502632</b>
two-part – FE 0.5 m + LE 11.5 m yellow webbing	WTL 4550-006 0.5+11.5 yellow	<b>1502633</b>
Fixed end 0.5 m	WTL 4550-006 FE 0.5 yellow	<b>1507050</b>
Loose ends - see WTR 4000 - page 37		
<b>with end-fitting 006 - pointed hook, loose ends with individual "print"</b>		
two-part – FE 0.5 m + LE 7.6 m yellow webbing	WTL 4550-006 0.5+7.6 yellow "print"	<b>1507051</b>
two-part – FE 0.5 m + LE 9.6 m yellow webbing	WTL 4450-006 0.5+9.6 yellow "print"	<b>1507052</b>
two-part – FE 0.5 m + LE 11.6 m yellow webbing	WTL 4450-006 0.5+11.6 yellow "print"	<b>1507053</b>

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

## WISTRA WTE 4450 tension ratchet lashing strap

- Normal tension force  $S_{TF}$  450 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 814
- Strap 50 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 4,000 daN on pages 90 to 98.

Optional with Quick View Label



Standard version	Short designation	Item No.
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.4 m + LE 7.6 m yellow webbing	WTE 4450-006 0.4+7.6 yellow	<b>11814060060476</b>
two-part – FE 0.4 m + LE 9.6 m yellow webbing	WTE 4450-006 0.4+9.6 yellow	<b>11814060060496</b>
two-part – FE 0.4 m + LE 11.6 m yellow webbing	WTE 4450-006 0.4+11.6 yellow	<b>118140600604116</b>
Fixed end 0.4 m	WTE 4450-006 FE 0.4 yellow	<b>11814060060400</b>
Loose ends - see WTR 4000 - page 37		
<b>with end-fitting 006 - pointed hook, loose ends with individual "print"</b>		
two-part – FE 0.4 m + LE 7.6 m yellow webbing	WTE 4450-006 0.4+7.6 yellow "print"	<b>1507060</b>
two-part – FE 0.4 m + LE 9.6 m yellow webbing	WTE 4450-006 0.4+9.6 yellow "print"	<b>1507061</b>
two-part – FE 0.4 m + LE 11.6 m yellow webbing	WTL 4450-006 0.4+11.6 yellow "print"	<b>1507062</b>

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)

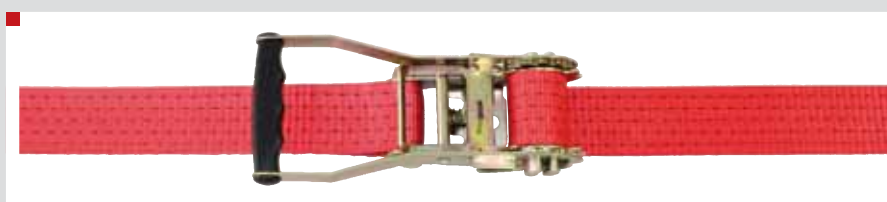


End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN on pages 90 to 98.

Optional with Quick View Label



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

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

## WISTRA WTR 4000 pressure ratchet lashing strap



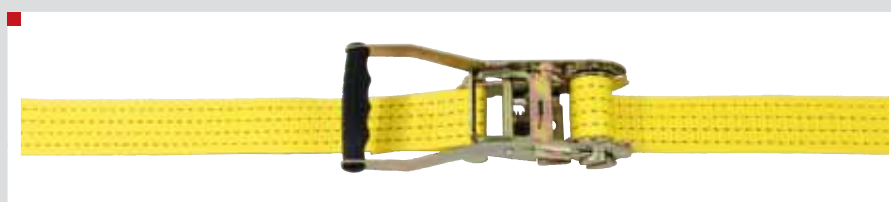
- Normal tension force  $S_{TF}$  350 daN  
for normal hand force  $S_{HF}$  50 daN
- Lashing capacity LC 2,000 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 811
- Strap 50 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 4,000 daN on pages 90 to 98.

Optional with Quick View Label



Standard version	Short designation	Item No.
single-part - 6.0 m yellow webbing	WTR 4000 single-part 6.0 yellow	<b>11811060006000</b>
single-part - 8.0 m yellow webbing	WTR 4000 single-part 8.0 yellow	<b>11811060008000</b>
single-part - 10.0 m yellow webbing	WTR 4000 single-part 10.0 yellow	<b>1501673</b>
<b>with end-fitting 006 - pointed hook</b>		
two-part – FE 0.4 m + LE 5.6 m yellow webbing	WTR 4000-006 0.4+5.6 yellow	<b>11811060060456</b>
two-part – FE 0.4 m + LE 7.6 m yellow webbing	WTR 4000-006 0.4+7.6 yellow	<b>11811060060476</b>
two-part – FE 0.4 m + LE 8.6 m yellow webbing	WTR 4000-006 0.4+8.6 yellow	<b>11811060060486</b>
two-part – FE 0.4 m + LE 9.6 m yellow webbing	WTR 4000-006 0.4+9.6 yellow	<b>11811060060496</b>
two-part – FE 0.4 m + LE 11.6 m yellow webbing	WTR 4000-006 0.4+11.6 yellow	<b>118110600604116</b>
Fixed end 0.4 m yellow webbing	WTR 4000-006 FE 0.4 yellow	<b>11811060060400</b>
Loose end 5.6 m yellow webbing	WTR 4000-006 FE 5.6 yellow	<b>1504414</b>
Loose end 7.6 m yellow webbing	WTR 4000-006 FE 7.6 yellow	<b>11000060060076</b>
Loose end 8.6 m yellow webbing	WTR 4000-006 FE 8.6 yellow	<b>11000060060086</b>
Loose end 9.6 m yellow webbing	WTR 4000-006 FE 9.6 yellow	<b>11000060060096</b>
Loose end 11.6 m yellow webbing	WTR 4000-006 FE 11.6 yellow	<b>110000600600116</b>
<b>with end-fitting 006 - pointed hook, loose ends with individual "print"</b>		
two-part – FE 0.4 m + LE 5.6 m yellow webbing	WTR 4000-006 0.4+5.6 yellow "print"	<b>1507063</b>
two-part – FE 0.4 m + LE 7.6 m yellow webbing	WTR 4000-006 0.4+7.6 yellow "print"	<b>1507064</b>
two-part – FE 0.4 m + LE 8.6 m yellow webbing	WTR 4000-006 0.4+8.6 yellow "print"	<b>1507065</b>
two-part – FE 0.4 m + LE 9.6 m yellow webbing	WTR 4000-006 0.4+9.6 yellow "print"	<b>1507066</b>
two-part – FE 0.4 m + LE 11.6 m yellow webbing	WTR 4000-006 0.4+11.6 yellow "print"	<b>1507067</b>

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

## WISTRA WTN 3700 tension ratchet lashing strap

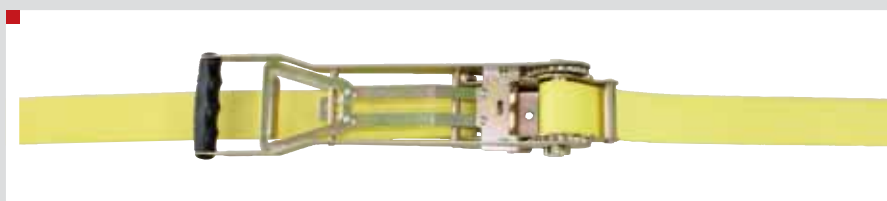
with high tension force for tying down

- 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)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 1,600 daN on pages 90 to 98.



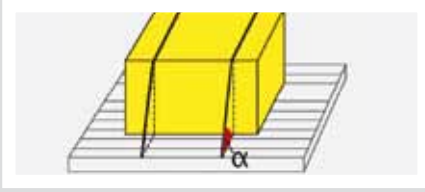
Standardausführung	Kurzbezeichnung	Artikelnr.
mit Endbeschlag 006 – Spitzhaken		
zweiteilig – FE 0,5 m + LE 7,5 m	WTN 3700-006 0,5 + 7,5 gelb	<b>1502672</b>
zweiteilig – FE 0,5 m + LE 8,5 m	WTN 3700-006 0,5 + 8,5 gelb	<b>1502673</b>
zweiteilig – FE 0,5 m + LE 9,5 m	WTN 3700-006 0,5 + 9,5 gelb	<b>1502674</b>
zweiteilig – FE 0,5 m + LE 11,5 m	WTN 3700-006 0,5 + 11,5 gelb	<b>1502675</b>

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

Optional with Quick View Label



# Tying down stable loads



- calculated with an acceleration value 0.8 according to DIN EN 12195-1:2004 and VDI 2700 ff.
- Transfer coefficient = 1.5 for  $S_{TF}$  350 daN, 450 daN, 550 daN and 700 daN
- for  $S_{TF}$  1,100 daN ( $k = 2$  for both fixed ends  $S_{TF}$  550 daN)
- $\mu D$  = dynamic sliding friction coefficient
- $S_{TF}$  = normal initial tension force according to lashing strap label (fixed end)

Load weight	Inclination angle (alpha) 30° - 44°					Inclination angle (alpha) 45° - 79°					Inclination angle (alpha) 80° - 90°					$\mu D$	
	for $S_{TF}$ value																
	$\mu D$	350 daN	450 daN	550 daN	700 daN	1100 daN	350 daN	450 daN	550 daN	700 daN	1100 daN	350 daN	450 daN	550 daN	700 daN		1100 daN
	Calculated number of required lashing straps																
100 kg	0,2	2	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	0,2
	0,4	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	0,4
	0,6	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	0,6
250 kg	0,2	3	3	2	2	2	2	2	2	1*)	1*)	2	2	1*)	1*)	1*)	0,2
	0,4	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	0,4
	0,6	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	0,6
500 kg	0,2	6	5	4	3	3	4	4	3	2	2	3	3	2	2	2	0,2
	0,4	2	2	2	1*)	1*)	2	2	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	0,4
	0,6	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	0,6
750 kg	0,2	9	7	6	5	5	6	5	4	3	3	5	4	3	3	3	0,2
	0,4	3	3	2	2	2	2	2	2	1*)	1*)	2	2	1*)	1*)	1*)	0,4
	0,6	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	0,6
1 t	0,2	12	9	8	6	6	8	7	6	4	4	6	5	4	3	3	0,2
	0,4	4	3	3	2	2	3	3	2	2	2	2	2	2	1*)	1*)	0,4
	0,6	2	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	0,6
1,25 t	0,2	15	11	9	8	7	10	8	7	5	5	8	6	5	4	4	0,2
	0,4	5	4	3	3	3	4	3	3	2	2	3	2	2	2	2	0,4
	0,6	2	2	1*)	1*)	1*)	2	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	0,6
1,5 t	0,2	17	14	11	9	9	12	10	8	6	6	9	7	6	5	5	0,2
	0,4	6	5	4	3	3	4	4	3	2	2	3	3	2	2	2	0,4
	0,6	2	2	2	1*)	1*)	2	2	1*)	1*)	1*)	1*)	1*)	1*)	1*)	1*)	0,6
2 t	0,2	23	18	15	12	11	16	13	11	8	8	12	9	8	6	6	0,2
	0,4	8	6	5	4	4	6	5	4	3	3	4	3	3	2	2	0,4
	0,6	3	2	2	2	2	2	2	2	1*)	1*)	2	1*)	1*)	1*)	1*)	0,6
2,5 t	0,2	29	22	18	15	14	20	16	13	10	10	15	12	10	8	7	0,2
	0,4	1*)	8	6	5	5	7	6	5	4	4	5	4	4	3	3	0,4
	0,6	4	3	2	2	2	3	2	2	2	2	2	2	2	1*)	1*)	0,6
3 t	0,2	34	27	22	17	17	24	19	16	12	12	18	14	11	9	9	0,2
	0,4	12	9	8	6	6	8	7	6	4	4	6	5	4	3	3	0,4
	0,6	4	3	3	2	2	3	3	2	2	2	2	2	2	2	1*)	0,6
3,5 t	0,2	40	31	25	20	19	28	22	18	14	14	20	16	13	10	10	0,2
	0,4	14	11	9	7	7	10	8	6	5	5	7	6	5	4	4	0,4
	0,6	5	4	3	3	3	4	3	2	2	2	3	2	2	2	2	0,6
4 t	0,2	45	35	29	23	22	32	25	21	16	16	23	18	15	12	11	0,2
	0,4	15	12	10	8	8	11	9	7	6	6	8	6	5	4	4	0,4
	0,6	5	4	4	3	3	4	3	3	2	2	3	2	2	2	2	0,6
5 t	0,2	57	44	36	29	27	40	31	26	20	19	29	23	19	15	14	0,2
	0,4	19	15	12	10	9	14	11	9	7	7	10	8	7	5	5	0,4
	0,6	7	5	4	4	3	5	4	3	3	3	4	3	3	2	2	0,6
6 t	0,2	68	53	43	34	33	48	37	31	24	23	35	27	22	18	17	0,2
	0,4	23	18	15	12	11	16	13	11	8	8	12	9	8	6	6	0,4
	0,6	8	6	5	4	4	6	5	4	3	3	4	3	3	2	2	0,6
7 t	0,2	79	62	50	40	38	56	44	36	28	27	40	31	26	20	20	0,2
	0,4	27	21	17	14	13	19	15	12	10	9	14	11	9	7	7	0,4
	0,6	9	7	6	5	5	7	5	4	4	3	5	4	3	3	3	0,6
8 t	0,2	90	70	58	45	43	64	50	41	32	31	46	36	29	23	22	0,2
	0,4	30	24	20	15	15	22	17	14	11	11	16	12	10	8	8	0,4
	0,6	10	8	7	5	5	8	6	5	4	4	6	4	4	3	3	0,6
9 t	0,2	101	79	65	51	49	72	56	46	36	35	52	40	33	26	25	0,2
	0,4	34	27	22	17	17	24	19	16	12	12	18	14	11	9	9	0,4
	0,6	12	9	8	6	6	8	7	6	4	4	6	5	4	3	3	0,6
10 t	0,2	113	88	72	57	54	80	62	51	40	38	57	45	37	29	28	0,2
	0,4	38	30	24	19	18	27	21	17	14	13	19	15	13	10	10	0,4
	0,6	13	10	8	7	6	9	7	6	5	5	7	5	5	4	4	0,6

\*) The use of at least two lashing straps prevents a possible twisting of load units.

## WISTRA WTF 5000-306/006 ratchet lashing strap

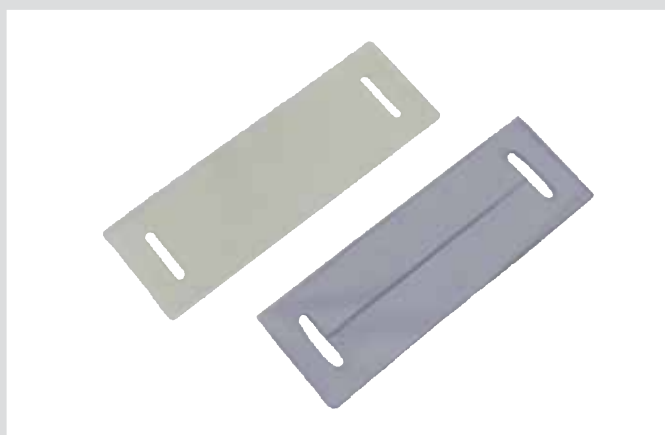
Version with adjustable length of the fixed end

- 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



Quick View Label

### Accessories



Ratchet bases



Label cover

#### WISTRA WTF 5550-306/006 tension ratchet lashing strap

- Normal tension force STF 550 daN  
for normal hand force SHF 50 daN
- Tensioning element ratchet 818

#### WISTRA WTF 5450-306/006 tension ratchet lashing strap

- Normal tension force STF 450 daN  
for normal hand force SHF 50 daN
- Tensioning element ratchet 814

#### WISTRA WTF 5350-306/006 pressure ratchet lashing strap

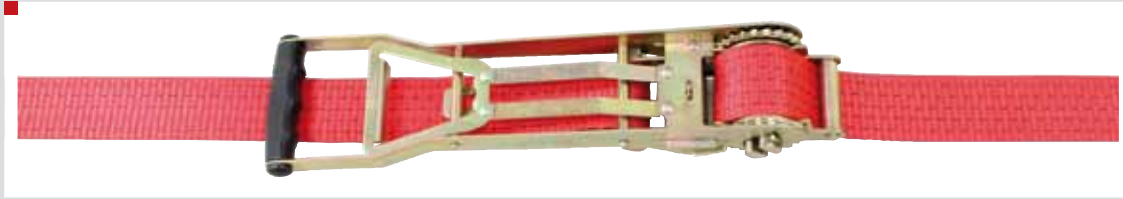
- Normal tension force STF 350 daN  
for normal hand force SHF 50 daN
- Tensioning element ratchet 811

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN on pages 90 to 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	<b>1502796</b>
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	<b>1502797</b>
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	<b>1502795</b>

**WISTRA WTF 5450-306/006 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 5450-306/006 0.3/1.5 m + 7.6 m red	<b>1502827</b>
two-part – FE 0.3 m to 1.5 m + LE 9.6 m red webbing	WTF 5450-306/006 0.3/1.5 m + 9.6 m red	<b>1502828</b>
two-part – FE 0.3 m to 1.5 m + LE 11.6 m red webbing	WTF 5450-306/006 0.3/1.5 m + 11.6 m red	<b>1502826</b>

**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	<b>1502860</b>
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	<b>1502861</b>
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	<b>1502858</b>

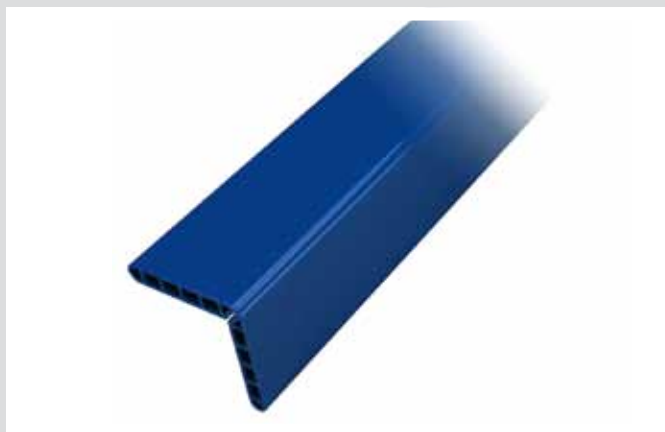
Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request

## 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  $STF \times 2$  (Transfer coefficient  $k=2$ )  
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)

### Accessories



Edge protection



Kantenschutzecke

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN on pages 90 to 98.

### WISTRA WTL 555A-006 tension ratchet lashing strap

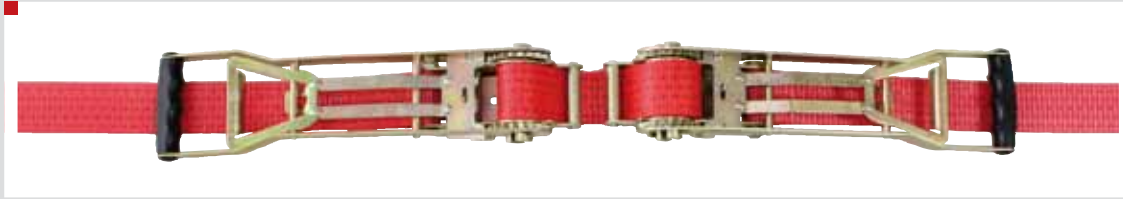
- System - normal tension force  $STF$  550 daN  $\times 2 = 1,100$  daN  
(Transfer coefficient  $k=2$ )  
for normal hand force  $2 \times SHF$  50 daN
- Tensioning element ratchet 818

### WISTRA WTE 545A-006 tension ratchet lashing strap

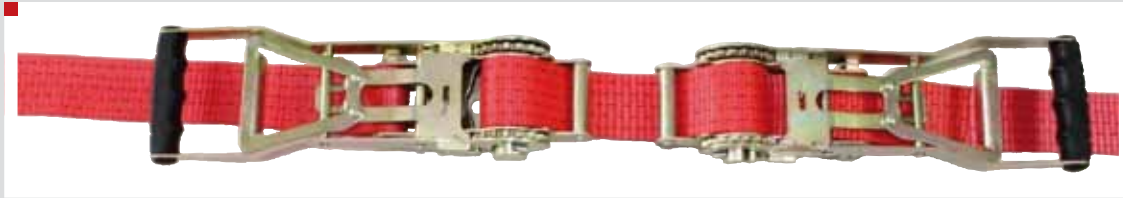
- System - normal tension force  $STF$  450 daN  $\times 2 = 900$  daN  
(Transfer coefficient  $k=2$ )  
for normal hand force  $2 \times SHF$  50 daN
- Tensioning element ratchet 814

### WISTRA WTR 535A-006 pressure ratchet lashing strap

- System - normal tension force  $STF$  350 daN  $\times 2 = 700$  daN  
(Transfer coefficient  $k=2$ )  
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	<b>1502923</b>
three-part – 2 x FE 0.5 m + LE 9.0 m red webbing	WTL 555A-006 2x0.5+9.0 red	<b>1502924</b>
three-part – 2 x FE 0.5 m + LE 11.0 m red webbing	WTL 555A-006 2x0.5+11.0 red	<b>1502925</b>

**WISTRA WTE 545A-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 545A-006 2x0.4+7.0 red	<b>1502953</b>
three-part – 2 x FE 0.4 m + LE 9.0 m red webbing	WTE 545A-006 2x0.4+9.0 red	<b>1502954</b>
three-part – 2 x FE 0.4 m + LE 11.0 m red webbing	WTE 545A-006 2x0.4+11.0 red	<b>1502955</b>

**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	<b>1502983</b>
three-part – 2 x FE 0.4 m + LE 9.0 m red webbing	WTR 535A-006 2x0.4+9.0 red	<b>1502984</b>
three-part – 2 x FE 0.4 m + LE 11.0 m red webbing	WTR 535A-006 2x0.4+11.0 red	<b>1502985</b>

## 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	<b>1503026</b>
Round sling for 1.2 m wide goods	WTB 5000-1200-018	<b>1503027</b>
Round sling for 0.8 m wide goods	WTB 5000-0800-018	<b>1503028</b>

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

## 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

1000 daN	750 daN	500daN	400 daN	300 daN	250 daN	175 daN
WTR 2000	WTR 1500	WTR 1000	WTR 800	WTK 600	WTK 500	WTK 350
WTR 2200		WTK 1000				
		WTS 1000				

## WISTRA WTR 2000 pressure ratchet lashing strap

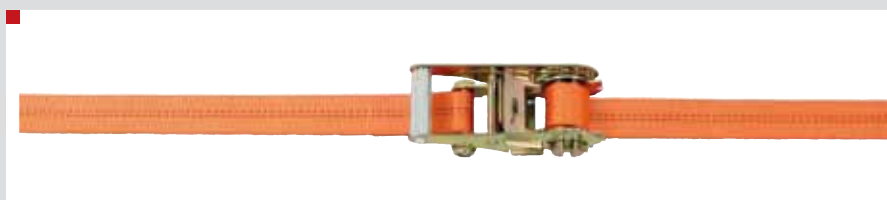
- Normal tension force  $S_{TF}$  240 daN  
for normal hand force  $S_{HF}$  50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 908
- Strap 35 mm – durable due to PU coated webbing (PES)



End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 2,000 daN on pages 90 to 98.



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

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 on pages 90 to 98.



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

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 2,500 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 on pages 90 to 98.



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

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 909
- 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 on pages 90 to 98.



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

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

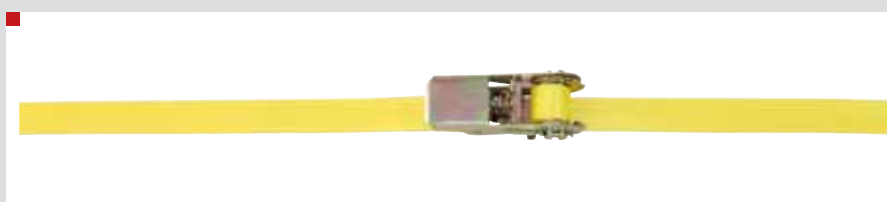
## WISTRA WTR 800 pressure ratchet lashing strap

- Normal tension force  $S_{TF}$  160 daN  
for normal hand force  $S_{HF}$  50 daN
- Lashing capacity LC 2,500 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 on pages 90 to 98.



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

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

## WISTRA WTK 1000 clamp lock lashing strap

- Lashing capacity LC 2,500 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 on pages 90 to 98.



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

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

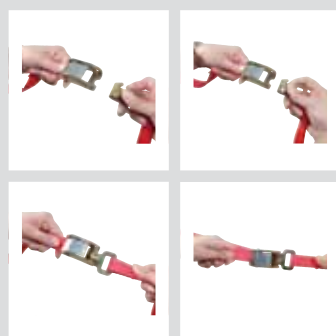
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- [Tensioning element clamp lock 605](#)
- Strap 25 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 600 daN on pages 90 to 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	<b>1255071</b>
single-part - 2.0 m red webbing	WTK 600 - single-part 605/025 2,0 red	<b>1255078</b>
single-part - 3.0 m red webbing	WTK 600 - single-part 605/025 3,0 red	<b>1255079</b>
single-part - 4.0 m red webbing	WTK 600 - single-part 605/025 4,0 red	<b>1255080</b>
single-part - 5.0 m red webbing	WTK 600 - single-part 605/025 5,0 red	<b>1255081</b>
single-part - 6.0 m red webbing	WTK 600 - single-part 605/025 6,0 red	<b>1255082</b>
single-part - 8.0 m red webbing	WTK 600 - single-part 605/025 8,0 red	<b>1255084</b>
<b>with end-fitting 002 - pointed hook</b>		
two-part – FE 0.2 m + LE 0.8 m red webbing	WTK 600-605/025-002 0.2+0.8 red	<b>1254982</b>
two-part – FE 0.2 m + LE 1.8 m red webbing	WTK 600-605/025-002 0.2+1.8 red	<b>1254983</b>
two-part – FE 0.2 m + LE 2.8 m red webbing	WTK 600-605/025-002 0.2+2.8 red	<b>1254984</b>
two-part – FE 0.2 m + LE 3.8 m red webbing	WTK 600-605/025-002 0.2+3.8 red	<b>1254985</b>
two-part – FE 0.5 m + LE 1.5 m red webbing	WTK 600-605/025-002 0.5+1.5 red	<b>1254986</b>
two-part – FE 0.5 m + LE 2.5 m red webbing	WTK 600-605/025-002 0.5+2.5 red	<b>1254987</b>
two-part – FE 0.5 m + LE 3.5 m red webbing	WTK 600-605/025-002 0.5+3.5 red	<b>1254988</b>
two-part – FE 0.5 m + LE 4.5 m red webbing	WTK 600-605/025-002 0.5+4.5 red	<b>1254989</b>
two-part – FE 0.5 m + LE 5.5 m red webbing	WTK 600-605/025-002 0.5+5.5 red	<b>1254990</b>

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 2,500 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 on pages 90 to 98.



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

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 2,500 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 on pages 90 to 98.



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

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 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- [Tensioning element clamp 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 on pages 90 to 98.



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

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

# Vehicle transport lashing straps

## WISTRA WTA 3135 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
- 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)



Type	Ratchet	Protection	FE hook	Hook loose	Hook Loose end	Length FE m	Length LE m	Item No.
WTA 3	908	A35	520	520	520	0,2	1,8	<b>1350188</b>
WTA 3	908	A35	520	520	520	0,2	2,3	<b>1350189</b>
WTA 3	908	A35	520	520	520	0,2	2,8	<b>1350190</b>
WTA 3	908	A35	531	531	531	0,2	1,8	<b>1350191</b>
WTA 3	908	A35	531	531	531	0,2	2,3	<b>1350192</b>
WTA 3	908	A35	531	531	531	0,2	2,8	<b>1350193</b>
WTA 3	908	B35	520	520	520	0,2	1,8	<b>1350201</b>
WTA 3	908	B35	520	520	520	0,2	2,3	<b>1350202</b>
WTA 3	908	B35	520	520	520	0,2	2,8	<b>1350203</b>
WTA 3	908	B35	531	531	531	0,2	1,8	<b>1350205</b>
WTA 3	908	B35	531	531	531	0,2	2,3	<b>1350206</b>
WTA 3	908	B35	531	531	531	0,2	2,8	<b>1350207</b>
WTA 3	908	C35	520	520	520	0,2	1,8	<b>1350214</b>
WTA 3	908	C35	520	520	520	0,2	2,3	<b>1350215</b>
WTA 3	908	C35	520	520	520	0,2	2,8	<b>1350216</b>

Type	Ratchet	Protection	FE hook	Hook loose	Hook Loose end	Length FE m	Length LE m	Item No.
WTA 3	908	C35	531	531	531	0,2	1,8	<b>1350217</b>
WTA 3	908	C35	531	531	531	0,2	2,3	<b>1350218</b>
WTA 3	908	C35	531	531	531	0,2	2,8	<b>1350219</b>
WTA 3	908	D35	520	520	520	0,2	1,8	<b>1350226</b>
WTA 3	908	D35	520	520	520	0,2	2,3	<b>1350227</b>
WTA 3	908	D35	520	520	520	0,2	2,8	<b>1350228</b>
WTA 3	908	D35	531	531	531	0,2	1,8	<b>1350229</b>
WTA 3	908	D35	531	531	531	0,2	2,3	<b>1350230</b>
WTA 3	908	D35	531	531	531	0,2	2,8	<b>1350231</b>
WTA 3	908	E50	520	520	520	0,2	1,8	<b>1350238</b>
WTA 3	908	E50	520	520	520	0,2	2,3	<b>1350239</b>
WTA 3	908	E50	520	520	520	0,2	2,8	<b>1350240</b>
WTA 3	908	E50	531	531	531	0,2	1,8	<b>1350241</b>
WTA 3	908	E50	531	531	531	0,2	2,3	<b>1350242</b>
WTA 3	908	E50	531	531	531	0,2	2,8	<b>1350243</b>

Typ A35  
**161021000040**



Typ B35  
**161021000072**



Typ C35  
**161035000041**



Typ D35  
**161035000040**



Typ E50  
**#165070-800**



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



## WISTRA WTA 3435 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
- 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)
- Blue webbing



Type	Ratchet	Protection	FE hook	Hook loose	Hook Loose end	Length FE	Length LE m	Item No.
WTA 3	908	A35	371	531	531	FE	1,8	<b>1350185</b>
WTA 3	908	A35	371	531	531	FE	2,3	<b>1350186</b>
WTA 3	908	A35	371	531	531	FE	2,8	<b>1350187</b>
WTA 3	908	A35	356	531	531	FE	1,8	<b>1350184</b>
WTA 3	908	A35	356	531	531	FE	2,3	<b>1350182</b>
WTA 3	908	A35	356	531	531	FE	2,8	<b>1350183</b>
WTA 3	908	B35	371	531	531	FE	1,8	<b>1350198</b>
WTA 3	908	B35	371	531	531	FE	2,3	<b>1350199</b>
WTA 3	908	B35	371	531	531	FE	2,8	<b>1350200</b>
WTA 3	908	B35	356	531	531	FE	1,8	<b>1350194</b>
WTA 3	908	B35	356	531	531	FE	2,3	<b>1350195</b>
WTA 3	908	B35	356	531	531	FE	2,8	<b>1350196</b>
WTA 3	908	C35	371	531	531	FE	1,8	<b>1350211</b>
WTA 3	908	C35	371	531	531	FE	2,3	<b>1350212</b>
WTA 3	908	C35	371	531	531	FE	2,8	<b>1350213</b>

Type	Ratchet	Protection	FE hook	Hook loose	Hook Loose end	Length FE	Length LE m	Item No.
WTA 3	908	C35	356	531	531	FE	1,8	<b>1350208</b>
WTA 3	908	C35	356	531	531	FE	2,3	<b>1350209</b>
WTA 3	908	C35	356	531	531	FE	2,8	<b>1350210</b>
WTA 3	908	D35	371	531	531	FE	1,8	<b>1350223</b>
WTA 3	908	D35	371	531	531	FE	2,3	<b>1350224</b>
WTA 3	908	D35	371	531	531	FE	2,8	<b>1350225</b>
WTA 3	908	D35	356	531	531	FE	1,8	<b>1350220</b>
WTA 3	908	D35	356	531	531	FE	2,3	<b>1350221</b>
WTA 3	908	D35	356	531	531	FE	2,8	<b>1350222</b>
WTA 3	908	E50	371	531	531	FE	1,8	<b>1350235</b>
WTA 3	908	E50	371	531	531	FE	2,3	<b>1350236</b>
WTA 3	908	E50	371	531	531	FE	2,8	<b>1350237</b>
WTA 3	908	E50	356	531	531	FE	1,8	<b>1350232</b>
WTA 3	908	E50	356	531	531	FE	2,3	<b>1350233</b>
WTA 3	908	E50	356	531	531	FE	2,8	<b>1350234</b>

Typ A35 <b>161021000040</b> 	Typ B35 <b>161021000072</b> 	Typ C35 <b>161035000041</b> 	Typ D35 <b>161035000040</b> 	Typ E50 <b>#165070-800</b> 
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Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request

## WISTRA WTA 3150 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
- Version according to VDI 2700 Sheet 8 - stretch  $\leq$  4%, manufactured and tested according to EN 12195-2: current version
- Tensioning element ratchet 918
- Blue strap 50 mm – durable due to PU coated webbing (PES)



Type	Ratchet	Protection	FE hook	Hook loose	Hook Loose end	Length FE m	Length LE m	Item No.
WTA 3	918	A50	006	006	006	0,2 m	1,8	<b>1503141</b>
WTA 3	918	A50	006	006	006	0,2 m	2,3	<b>1503142</b>
WTA 3	918	A50	006	006	006	0,2 m	2,8	<b>1503143</b>
WTA 3	918	A50	014	014	014	0,2 m	1,8	<b>1503144</b>
WTA 3	918	A50	014	014	014	0,2 m	2,3	<b>1503145</b>
WTA 3	918	A50	014	014	014	0,2 m	2,8	<b>1503146</b>
WTA 3	918	B50	006	006	006	0,2 m	1,8	<b>1503150</b>
WTA 3	918	B50	006	006	006	0,2 m	2,3	<b>1503151</b>
WTA 3	918	B50	006	006	006	0,2 m	2,8	<b>1503152</b>
WTA 3	918	B50	014	014	014	0,2 m	1,8	<b>1503153</b>
WTA 3	918	B50	014	014	014	0,2 m	2,3	<b>1503154</b>
WTA 3	918	B50	014	014	014	0,2 m	2,8	<b>1503155</b>
WTA 3	918	C50	006	006	006	0,2 m	1,8	<b>1503159</b>
WTA 3	918	C50	006	006	006	0,2 m	2,3	<b>1503160</b>
WTA 3	918	C50	006	006	006	0,2 m	2,8	<b>1503161</b>

Type	Ratchet	Protection	FE hook	Hook loose	Hook Loose end	Length FE m	Length LE m	Item No.
WTA 3	918	C50	014	014	014	0,2 m	1,8	<b>1503162</b>
WTA 3	918	C50	014	014	014	0,2 m	2,3	<b>1503163</b>
WTA 3	918	C50	014	014	014	0,2 m	2,8	<b>1503164</b>
WTA 3	918	D50	006	006	006	0,2 m	1,8	<b>1503168</b>
WTA 3	918	D50	006	006	006	0,2 m	2,3	<b>1503169</b>
WTA 3	918	D50	006	006	006	0,2 m	2,8	<b>1503170</b>
WTA 3	918	D50	014	014	014	0,2 m	1,8	<b>1503171</b>
WTA 3	918	D50	014	014	014	0,2 m	2,3	<b>1503172</b>
WTA 3	918	D50	014	014	014	0,2 m	2,8	<b>1503173</b>
WTA 3	918	E50	006	006	006	0,2 m	1,8	<b>1503177</b>
WTA 3	918	E50	006	006	006	0,2 m	2,3	<b>1503178</b>
WTA 3	918	E50	006	006	006	0,2 m	2,8	<b>1503179</b>
WTA 3	918	E50	014	014	014	0,2 m	1,8	<b>1503180</b>
WTA 3	918	E50	014	014	014	0,2 m	2,3	<b>1503181</b>
WTA 3	918	E50	014	014	014	0,2 m	2,8	<b>1503182</b>

Typ A50 <b>16102000040</b> 	Typ B50 <b>16102000071</b> 	Typ C50 <b>16102000041</b> 	Typ D50 <b>16105000040</b> 	Typ E50 <b>#165070-800</b> 
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Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request

## WISTRA WTA 3450 pressure ratchet lashing strap

- Ratchet 918 Normal tension force  $S_{TF}$  240 daN for normal hand force  $S_{HF}$  50 daN
- Ratchet 811 Normal tension force  $S_{TF}$  350 daN for normal hand force  $S_{HF}$  50 daN
- Lashing capacity LC 2,500 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 918/811
- Blue strap 50 mm – durable due to PU coated webbing (PES)



Type	Ratchet	Protection	FE hook	Hook loose	Hook Loose end	Length FE m	Length LE m	Item No.
WTA 3	918	A50	361	014	014	FE	1,8	<b>1503147</b>
WTA 3	918	A50	361	014	014	FE	2,3	<b>1503148</b>
WTA 3	918	A50	361	014	014	FE	2,8	<b>1503149</b>
WTA 3	918	B50	361	014	014	FE	1,8	<b>1503156</b>
WTA 3	918	B50	361	014	014	FE	2,3	<b>1503157</b>
WTA 3	918	B50	361	014	014	FE	2,8	<b>1503158</b>
WTA 3	918	C50	361	014	014	FE	1,8	<b>1503165</b>
WTA 3	918	C50	361	014	014	FE	2,3	<b>1503166</b>
WTA 3	918	C50	361	014	014	FE	2,8	<b>1503167</b>
WTA 3	918	D50	361	014	014	FE	1,8	<b>1503174</b>
WTA 3	918	D50	361	014	014	FE	2,3	<b>1503175</b>
WTA 3	918	D50	361	014	014	FE	2,8	<b>1503176</b>
WTA 3	918	E50	361	014	014	FE	1,8	<b>1503183</b>
WTA 3	918	E50	361	014	014	FE	2,3	<b>1503184</b>
WTA 3	918	E50	361	014	014	FE	2,8	<b>1503185</b>

Type	Ratchet	Protection	FE hook	Hook loose	Hook Loose end	Length FE m	Length LE m	Item No.
WTA 3	811	A50	353	014	014	FE	1,8	<b>1503099</b>
WTA 3	811	A50	353	014	014	FE	2,3	<b>1503100</b>
WTA 3	811	A50	353	014	014	FE	2,8	<b>1503101</b>
WTA 3	811	B50	353	014	014	FE	1,8	<b>1503108</b>
WTA 3	811	B50	353	014	014	FE	2,3	<b>1503109</b>
WTA 3	811	B50	353	014	014	FE	2,8	<b>1503110</b>
WTA 3	811	C50	353	014	014	FE	1,8	<b>1503117</b>
WTA 3	811	C50	353	014	014	FE	2,3	<b>1503118</b>
WTA 3	811	C50	353	014	014	FE	2,8	<b>1503119</b>
WTA 3	811	D50	353	014	014	FE	1,8	<b>1503126</b>
WTA 3	811	D50	353	014	014	FE	2,3	<b>1503127</b>
WTA 3	811	D50	353	014	014	FE	2,8	<b>1503128</b>
WTA 3	811	E50	353	014	014	FE	1,8	<b>1503135</b>
WTA 3	811	E50	353	014	014	FE	2,3	<b>1503136</b>
WTA 3	811	E50	353	014	014	FE	2,8	<b>1503137</b>

Typ A50 <b>161020000040</b> 	Typ B50 <b>161020000071</b> 	Typ C50 <b>161020000041</b> 	Typ D50 <b>161050000040</b> 	Typ E50 <b>#165070-800</b> 
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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 2,500 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

#### WISTRA WTR 2000 pressure ratchet lashing strap

- Standard version with rim hooks

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 2,000 daN on pages 90 to 98.

### WISTRA WTA 2135 pressure ratchet lashing strap



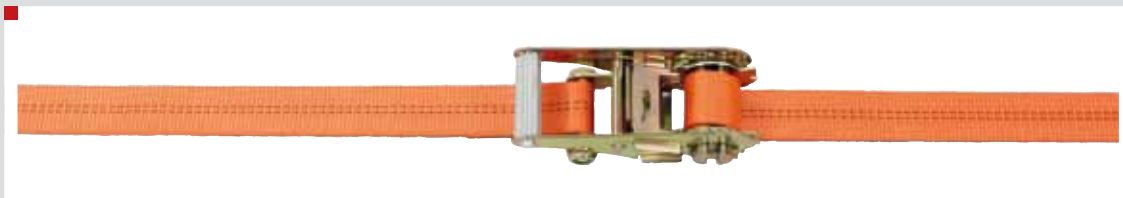
Type	Ratchet	Protection	Hook FE	Traverse arch	Hook Loose end	Length FE	Length LE	Item No.
Standard version with traverse arch (flemish bend) 350 mm long								
WTA 2	917	035	520	888	520	0.2 m	2.5 m	<b>1358741</b>
WTA 2	917	035	536	888	536	0.2 m	2.5 m	<b>1357412</b>
Special version with traverse arch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

### WISTRA WTA 2235 pressure ratchet lashing strap



Type	Ratchet	Protection	Hook FE	Hook central	Hook Loose end	Length FE	Length LE	Item No.
WTA 2	917	B35	536	536	016	0.2 m	1.5 m	<b>1350025</b>
WTA 2	908	B35	371	536	016	FE	1.5 m	<b>1351235</b>

### WISTRA WTR 2000 pressure ratchet lashing strap



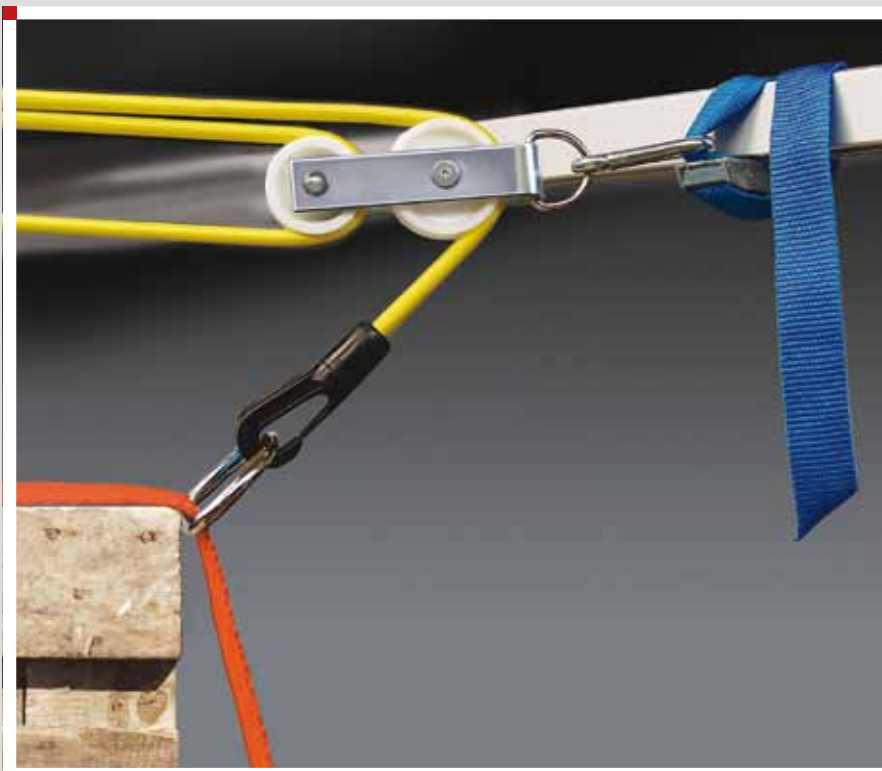
Type	Ratchet	Protection	Hook FE	Hook central	Hook Loose end	Length FE	Length LE	Item No.
WTA 2	908	035	536	000	536	0.3 m	1.7 m	<b>1350852</b>

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

# 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	<b>160101</b>
	Set for 12 pieces of lashing straps	<b>160103</b>
Lashing lift system for „Schiebeverdeck“	Set for 6 pieces of lashing straps	<b>160100</b>
	Set for 12 pieces of lashing straps	<b>160102</b>



# „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
- 1 OSB plate 400 × 930 mm
- Optional: Battery-powered magnetic LED lamp (batteries not included in scope of supply)

**LADE**  
**PARTNER** by



Designation	Unit of quantity	Item No.
<b>„Ladebox“ set, type A</b> 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	<b>190001</b>
<b>„Ladebox“ set, type Construction</b> 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	<b>190002</b>
<b>„Ladebox“ for PK 3000</b> consisting of: 2 × drawer troughs with ball bearing guides 2 × plastic containers 600 × 400 × 130 mm	Set	<b>1921001421</b>
<b>„Ladebox“ spare wheel cradle EK 1000 frame</b> Powder coated Height 490 mm, 30 µm +/-10% Without accessories Including clamping claws M16 screws not included in scope of supply	Pieces	<b>1921006120</b>
<b>„Ladebox“ LED lamp 135 mm dia. magnetic</b>	Pieces	<b>1936745130</b>
<b>„Ladebox“ plastic container</b> Grated, 600 × 400 × 130 mm	Pieces	<b>1970305050</b>
<b>Steel „Ladebox“ for EK 1000</b> 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	<b>1971701080</b>



LadeBOX EK1000 (without load securing sets)



LadeBOX insert PK3000

# WISTRA lashing strap accessories

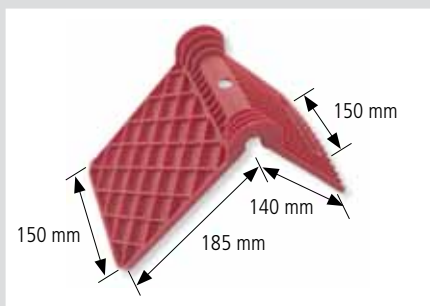
## Edge protection 5500



Material: Plastic  
Colour: black  
Weight: 0.250 kg

Designation	Unit of quantity	Item No.
Edge protection black 50 mm	Pieces	<b>165500000040</b>

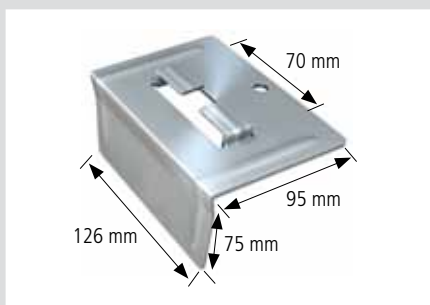
## Edge protection 6660



Material: Plastic  
Colour: red  
Weight: 0.205 kg

Designation	Unit of quantity	Item No.
Edge protection red 50 mm	Pieces	<b>166600000040</b>

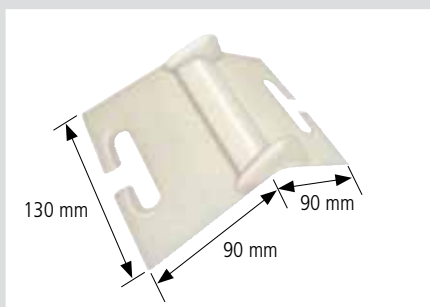
## Edge protection 7000



Material: steel  
Colour: galvanised  
Weight: 0.380 kg

Designation	Unit of quantity	Item No.
Edge protection steel 50 mm	Pieces	<b>167000000012</b>

## Edge protection 2200

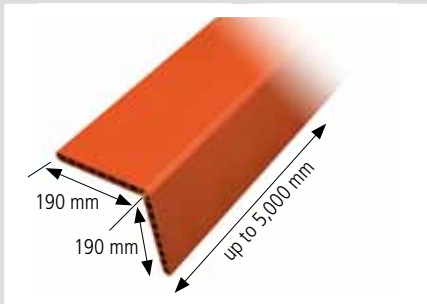


Material: Polyethylene  
Colour: white  
Weight: 0.060 kg

Designation	Unit of quantity	Item No.
Edge protection white 50 mm open	Pieces	<b>162200000240</b>



### Edge protection 3000

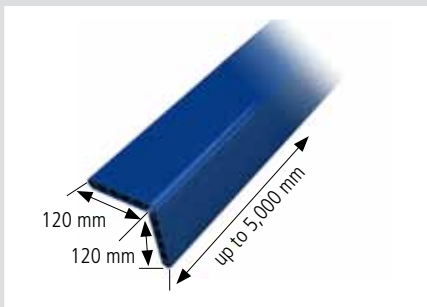


Material: Plastic  
Colour: orange

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

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

### Edge protection 3010



Material: Plastic  
Colour: blue

Weight: 0.990 kg/m  
Length: up to 5,000 mm

Designation	Unit of quantity	Item No.
Edge protection 120x120 blue 500 mm	Pieces	<b>16301040-0500</b>
Edge protection 120x120 blue 800 mm	Pieces	<b>16301040-0800</b>
Edge protection 120x120 blue 1000 mm	Pieces	<b>16301040-1000</b>
Edge protection 120x120 blue 1,200 mm	Pieces	<b>16301040-1200</b>
Edge protection 120x120 blue 2,000 mm	Pieces	<b>16301040-2000</b>
Edge protection 120x120 blue 2,400 mm	Pieces	<b>16301040-2400</b>
Edge protection 120x120 blue 2,500 mm	Pieces	<b>16301040-2500</b>
Edge protection 120x120 blue 3,000 mm	Pieces	<b>16301040-3000</b>
Edge protection 120x120 blue 4,000 mm	Pieces	<b>16301040-4000</b>
Edge protection 120x120 blue 5,000 mm	Pieces	<b>163010000040</b>

### Edge protection flat profile 3006



Material: Plastic  
Colour: blue/black

Weight: 1.000 kg/m  
Length: up to 6,000 mm

Designation	Unit of quantity	Item No.
Edge protection flat profile 190x190 blue/black 2,000 mm	Pieces	<b>163006190-0500</b>
Edge protection flat profile 190x190 blue/black 2,000 mm	Pieces	<b>163006190-0800</b>
Edge protection flat profile 190x190 blue/black 1,000 mm	Pieces	<b>163006190-1000</b>
Edge protection flat profile 190x190 blue/black 1,200 mm	Pieces	<b>163006190-1200</b>
Edge protection flat profile 190x190 blue/black 2,000 mm	Pieces	<b>163006190-2000</b>
Edge protection flat profile 190x190 blue/black 2,400 mm	Pieces	<b>163006190-2400</b>
Edge protection flat profile 190x190 blue/black 2,500 mm	Pieces	<b>163006190-2500</b>
Edge protection flat profile 190x190 blue/black 3,000 mm	Pieces	<b>163006190-3000</b>
Edge protection flat profile 190x190 blue/black 4,000 mm	Pieces	<b>163006190-4000</b>
Edge protection flat profile 190x190 blue/black 5,000 mm	Pieces	<b>163006190-5000</b>
Edge protection flat profile 190x190 blue/black 6,000 mm	Pieces	<b>163006190-6000</b>

Other lengths available upon request

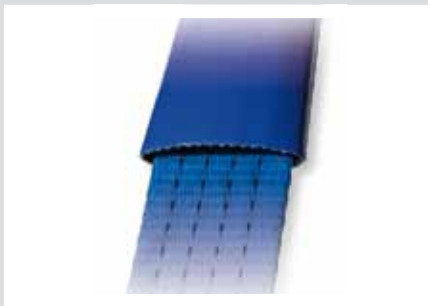
### Ratchet base



Material: Plastic

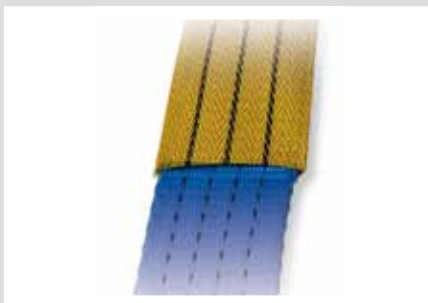
Designation	Unit of quantity	Item No.
Edge protection/ratchet base 50 mm	Pieces	<b>163001</b>
Edge protection/ratchet base 50 mm, slotted	Pieces	<b>163003</b>

### Edge protection hose, rubberised



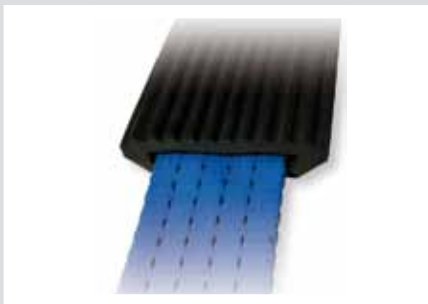
Designation	Unit of quantity	Item No.
Edge protection hose 35 mm blue rubberised	m	<b>161021000040</b>
Edge protection hose 50 mm blue rubberised	m	<b>161020000040</b>

### Edge protection hose, polyester



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

### Edge protection controller, profiled rubber hose



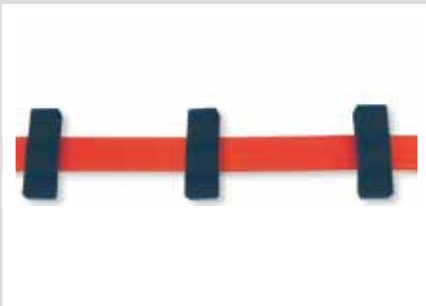
Designation	Unit of quantity	Item No.
Edge protection controller 35 mm rubber 700 mm	Pieces	<b>161035000041</b>
Edge protection controller 50 mm rubber 700 mm	Pieces	<b>161020000041</b>

### Edge protection controller



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

### Abrasion protection block



Material: Plastic  
Colour: black

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

### Label protection



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

### Parking device



Designation	Unit of quantity	Item No.
Fixed end parking device roof bar	Pieces	<b>1250011</b>

### Lashing strap slider / form-fit slider



Designation	Unit of quantity	Item No.
Lashing strap slider EN 12195:2004	Pieces	<b>160009</b>

### WISTRA App for iPhone lashing strap calculator / form-fit calculator



WISTRA App – the proven lashing strap slider as application

Calculate the required number of lashing straps to tie down a stable load or use the form-fit calculator to determine the maximum load unit weights, based on the maximum blocking capacity of the form-fit device.

The menu of the app is intuitive and practical.

The data of the integrated angle meter can be taken over directly for the exact calculation as an efficient tool.

You can find further aids regarding load securing in the information of both areas.

<http://itunes.apple.com/de/app/wistraapp/id442392262?mt=8>

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



Material: Steel, black powder coated

Designation	Unit of quantity	Item No.
Lashing strap rolling-up system	Pieces	<b>16002000000</b>

### WIS ratchet tensioning support



Designation	Unit of quantity	Item No.
WIS ratchet tensioning support Hand force limiting $S_H$ to 50 daN	Pieces	<b>160050</b>

## Slip-resistant material



The slip-resistant mats are used to increase the friction coefficient up to  $\mu_D$  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.

WIS anti-slip mats with a friction coefficient  $\mu_D$  0.6.

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

### 3 mm RH mats

Designation	Dimensions	Unit of quantity	Item No.
3 mm RH mat	150 mm x 150 mm	Pieces	<b>161503015081</b>
3 mm RH mat	150 mm x 600 mm	Pieces	<b>166003015081</b>
3 mm RH mat	150 mm x 1250 mm	Roll	<b>161503125081</b>
3 mm RH mat	150 mm x 20,000 mm	Roll	<b>161503020081</b>
3 mm RH mat	250 mm x 5,000 mm	Roll	<b>162503500081</b>

### 8 mm RH mats

Designation	Dimensions	Unit of quantity	Item No.
8 mm RH mat	100 x 2400mm	Pieces	<b>1601008240081</b>
8 mm RH mat	110 x 130 mm	Pieces	<b>161108013081</b>
8 mm RH mat	200 x 300 mm	Pieces	<b>162008030081</b>
8 mm RH mat	250 x 5000 mm	Roll	<b>162508500081</b>
8 mm RH mat	500 x 5,000 mm	Roll	<b>165008500081</b>
8 mm RH mat	1250 x 10,000 mm	Roll	<b>161250810081</b>

Other lengths available upon request!

# WISTRA Safeguard load securing nets



WISTRA GmbH offers load securing nets in their range of products for more than 17 years.

Our broad range of products offers 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





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

- 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.

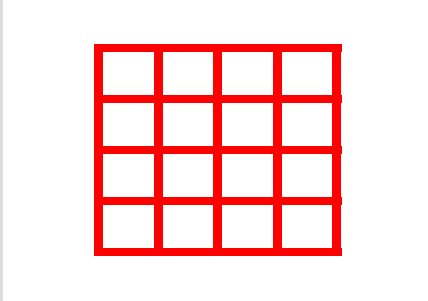
As mentioned earlier, we also manufacture nets individually in quantities from 1 piece upwards.

## Vertical versions

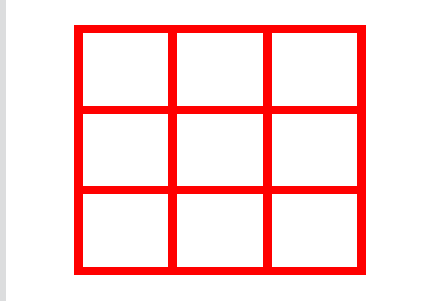


### Standard grid mesh apertures for 25 mm webbing

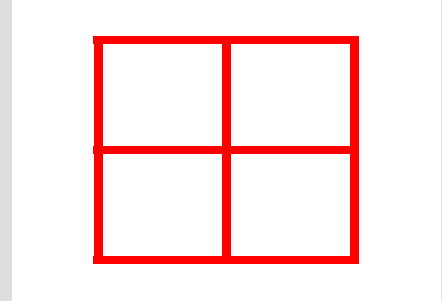
Webbing minimum breaking force 2,000 daN



Mesh aperture 150 mm  
Example size 725 mm x 725 mm



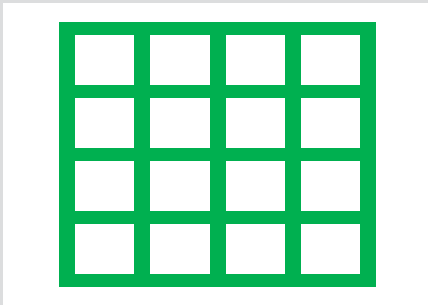
Mesh aperture 250 mm  
Example size 850 mm x 850 mm



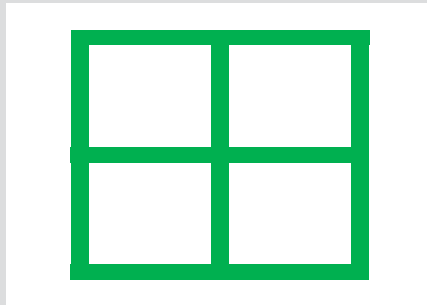
Mesh aperture 350 mm  
Example size 775 mm x 775 mm

### Standard grid mesh apertures for 50 mm webbing

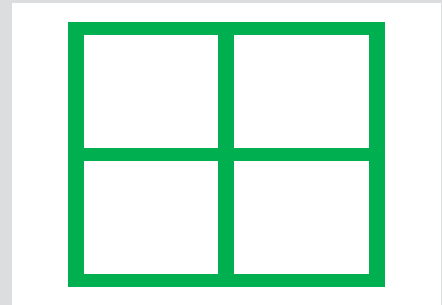
Webbing minimum breaking force 4,000 daN



Mesh aperture 200 mm  
Example size 1050 mm x 1050 mm



Mesh aperture 350 mm  
Example size 850 mm x 850 mm



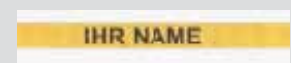
Mesh aperture 450 mm  
Example size 1050 mm x 1050 mm

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

#### Webbing colours



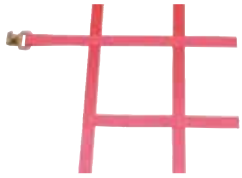
Property marking





## Side connecting components

25 mm,  
50 mm



Attachment, rigid  
Length - according to specification

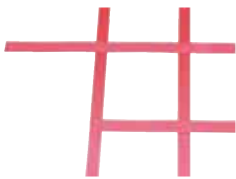
### Type A

with end-fitting (see page 88 to 96)  
e.g. Type A EB025 – 200 mm

### Type A2

with two end-fittings (see page 88 to 96)  
e.g. Type A2 EB025/002 – 200 mm

25 mm,  
50 mm

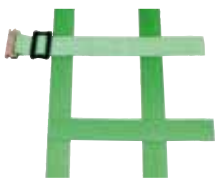


Attachment  
Length - according to specification

### Type B

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

50 mm



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

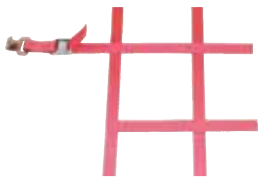
### Type C 806

with end-fitting (see page 88 to 96)  
e.g. Type C EB826 le – 100 mm

### Type C2 806

with two end-fittings (see page 88 to 96)  
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)

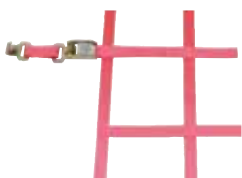
### Type K 805

with end-fitting (see page 88 to 96)  
e.g. Type K 805 EB025 – 250 mm

### Type K2 805

with two end-fittings (see page 88 to 96)  
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)

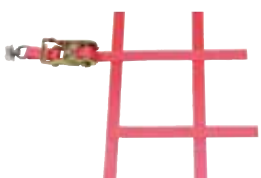
### Type SK 605/025

with end-fitting (see page 88 to 96)  
e.g. Type SK 605/025 EB025 – 300 mm

### Type A2 605/025

with two end-fittings (see page 88 to 96)  
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

with end-fitting (see page 88 to 96)  
e.g. Type R 909 EB379 – 300 mm

### Type R2 906

with two end-fittings (see page 88 to 96)  
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 (see page 88 to 96)  
e.g. Type K 907 EB826 le – 250 mm

#### Type K2 907

with two end-fittings (see page 88 to 96)  
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

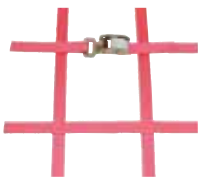
with end-fitting (see page 88 to 96)  
e.g. Type R 916 EB828 le – 300 mm

#### Type R2 916

with two end-fittings (see page 88 to 96)  
e.g. Type R2 916 EB826/828 le – 300 mm

### Central connecting components

25 mm



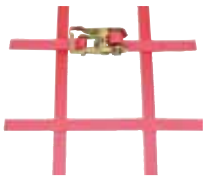
Central quick tensioning device  
with clamp lock 605/025

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



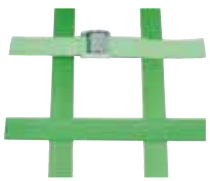
Central tensioning device  
with ratchet 909

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



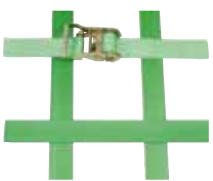
Central tensioning device  
with clamp lock 907

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



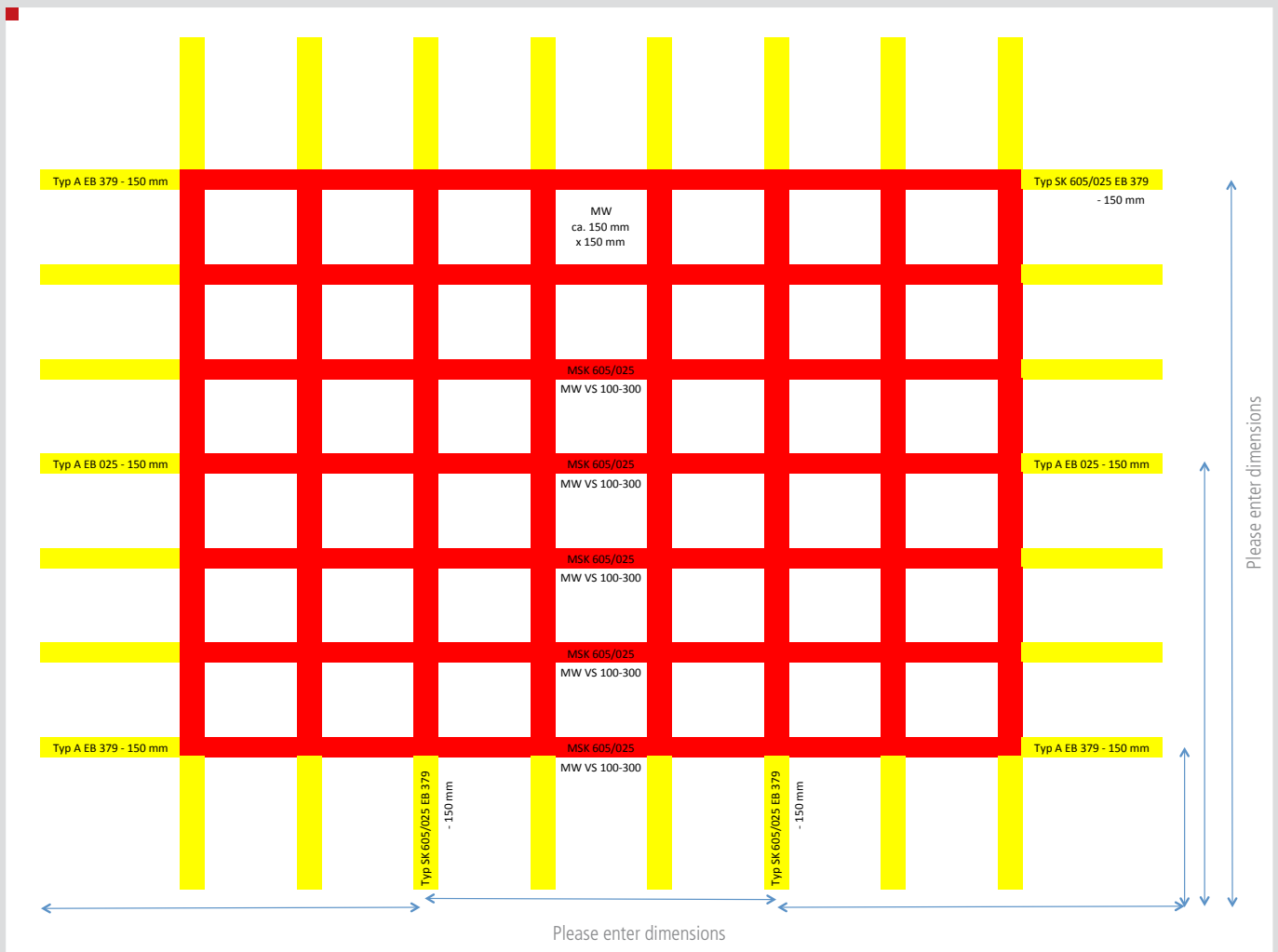
Central tensioning device  
with ratchet 916

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

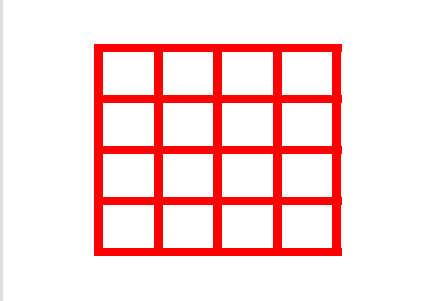


## Horizontal versions

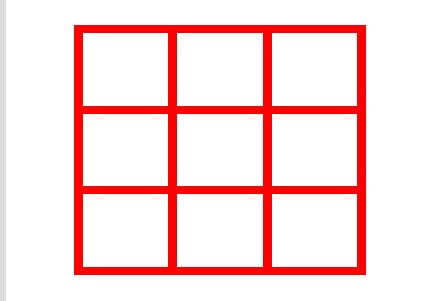


### Standard grid mesh apertures for 25 mm webbing

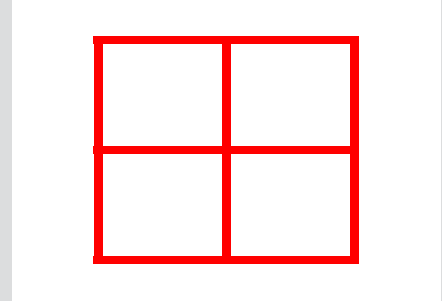
Webbing minimum breaking force 2,000 daN



Mesh aperture 150 mm  
Example size 725 mm x 725 mm



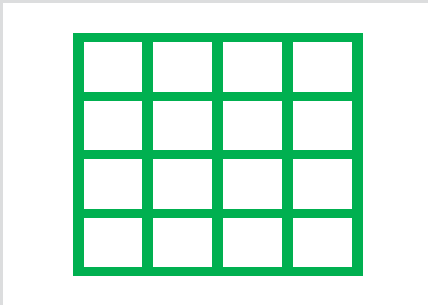
Mesh aperture 250 mm  
Example size 850 mm x 850 mm



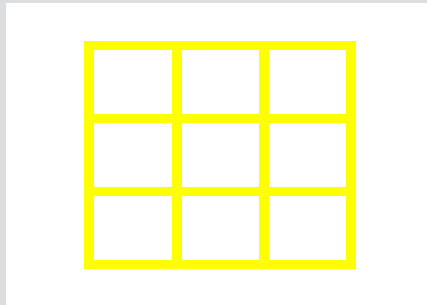
Mesh aperture 350 mm  
Example size 775 mm x 775 mm

### Standard grid mesh apertures for 50 mm webbing

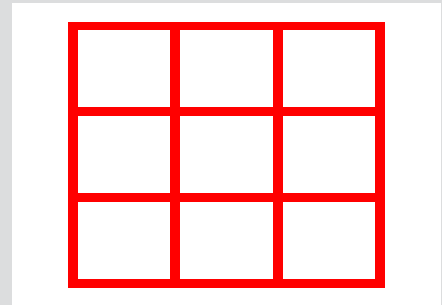
Minimum breaking force of webbing 4,000 daN, 6,000 daN, 7,600 daN



Mesh aperture 300 mm  
Example size 1450 mm x 1450 mm



Mesh aperture 400 mm  
Example size 1400 mm x 1400 mm



Mesh aperture 500 mm  
Example size 1700 mm x 1700 mm

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

#### Webbing colours

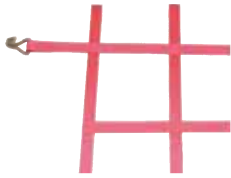


Property marking



## Side connecting components

25 mm,  
50 mm



Attachment, rigid  
Length - according to specification \*)

### Type A

with end-fitting (see page 88 to 96)  
e.g. Type A EB002 – 200 mm

### Type A2

with two end-fittings (see page 88 to 96)  
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)

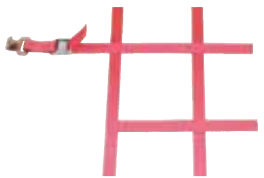
### Type C 806

with end-fitting (see page 88 to 96)  
e.g. Type C EB007 – 500 mm

### Type C2 806

with two end-fittings (see page 88 to 96)  
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)

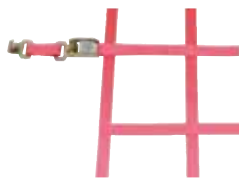
### Type K 805

with end-fitting (see page 88 to 96)  
e.g. Type K 805 EB025 – 250 mm

### Type K2 805

with two end-fittings (see page 88 to 96)  
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 (see page 88 to 96)  
e.g. Type SK 605/025 EB025 – 300 mm

### Type SK2 605/025

with two end-fittings (see page 88 to 96)  
e.g. Type SK2 605/02 EB025/002 – 300 mm

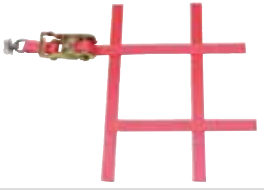
\*)

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 (see page 88 to 96) e.g. Type R 909 EB379 – 300 mm	with two end-fittings (see page 88 to 96) e.g. Type R2 909 EB025/379 – 300 mm

50 mm

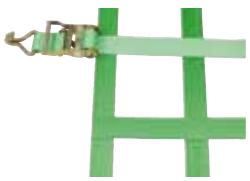


Tensioning device  
with clamp lock 907

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

Type K 907	Type K2 907
with end-fitting (see page 88 to 96) e.g. Type K 907 EB007 – 250 mm	with two end-fittings (see page 88 to 96) 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 (see page 88 to 96) e.g. Type R 916 EB007 – 300 mm	with two end-fittings (see page 88 to 96) e.g. Type R2 916 EB007/381 – 300 mm

50 mm



ähnlich

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 (see page 88 to 96) e.g. Type R 811 EB006 – 400 mm	with two end-fittings (see page 88 to 96) e.g. Type R2 811 EB006/065 – 400 mm

50 mm



ähnlich

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 (see page 88 to 96) e.g. Type R 814 EB006 – 400 mm	with two end-fittings (see page 88 to 96) e.g. Type R2 814 EB006/065 – 400 mm

50 mm



ähnlich

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 (see page 88 to 96) e.g. Type R 818 EB006 – 500 mm	with two end-fittings (see page 88 to 96) e.g. Type R2 818 EB006/065 – 500 mm

**WISTRA Safeguard load securing net****Item No. 27 222 00 000 01**

Dimensions: 1375 mm x 1225 mm  
 Mesh aperture: 125 mm x 125 mm  
 Webbing: 25 mm wide  
 Colour: blue  
 Breaking strength: 2,000 daN

On each of the corners 1 flat hook with safety device (14 000 00 025 00)

In the net additionally diagonally inwards

4 loose ends to adapt with a length of 1.00 m with clamp lock (12 605 00 000 12) and flat hook with safety device (14 000 00 025 00) are contained in the set

## 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

Including 4 fastening straps WTR 1000 single-part 4.00 m with 4 loose standard double finger hooks

14 D-rings are sewn around the circumference of the net, additionally 4 flat hooks with safety device (14 000 00 025 00) are sewn to the short sides



## 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	<b>275200312314</b>
WIS covering net 2 mm MW 30	1.6 m x 2.8 m	Pieces	<b>275200312816</b>
WIS covering net 2 mm MW 30	1.8 m x 3.3 m	Pieces	<b>275200313318</b>
WIS covering net 2 mm MW 30	2.0 m x 3.0 m	Pieces	<b>275200312030</b>
WIS covering net 2 mm MW 30	2.0 m x 3.5 m	Pieces	<b>275200312035</b>
WIS covering net 2 mm MW 30	2.5 m x 3.5 m	Pieces	<b>275200313525</b>
WIS covering net 2 mm MW 30	2.5 m x 4.5 m	Pieces	<b>275200314525</b>
WIS covering net 2 mm MW 30	3.0 m x 4.5 m	Pieces	<b>275200314530</b>

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

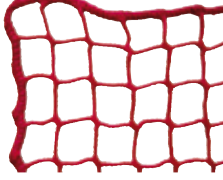




Designation	Dimensions	Unit of quantity	Item No.
Rubber rope	Ø 6 mm	m	<b>2756000G0000</b>
Rubber rope	Ø 12 mm	m	<b>27512000G0000</b>

# 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.



Bezeichnung	ArtikelNr.
 <p>Type 1 with sew-up edge rope</p>	<b>275450622833</b>
 <p>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</p>	<b>275450612833</b>
 <p>Type 3 enclosed all-round with a belt strap</p>	<b>275450632833</b>
 <p>Single-part ratchet lashing strap WTR 1000 single-part 2.0 m with a loop on the ratchet</p>	<b>119090200020005</b>
 <p>GFK telescope bar for simple handling with interchangeable special hooks Application range 1,500 - 2,800 mm</p>	<b>160050000040</b>

## 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.
<b>WIS SAFECON system code XL - 2480 mm</b> Version for <a href="#">side lashing rails</a> - 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	<b>200001</b>
<b>WIS SAFECON system code XL - 2480 mm</b> Version for <a href="#">floor lashing points</a> - 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	<b>200003</b>

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

### 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!

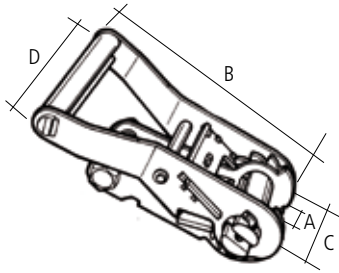
### Simple application

- 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	<b>16006000015</b>

# Ratchet



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

<sup>1)</sup> used in the WISTRA lashing straps

Supply of locks and end-fittings subject to dimensional deviations

75 mm



Minimum breaking force: 10,000 daN

**Item No. 129750000013**

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. 128180000013**

Webbing width: 50 mm  
 Overall length: 410 mm  
 Overall width: 90 mm  
 Width of handle: 110 mm  
 ST<sub>F1</sub>): 704/550 daN

50 mm



Minimum breaking force: 5,000 daN

**Item No. 128140000013**

Webbing width: 50 mm  
 Overall length: 331 mm  
 Overall width: 94 mm  
 Width of handle: 105 mm  
 ST<sub>F1</sub>): 450 daN

50 mm



Minimum breaking force: 5,000 daN

**Item No. 128110000013KG**

Webbing width: 50 mm  
 Overall length: 230 mm  
 Overall width: 95 mm  
 Width of handle: 98 mm  
 ST<sub>F1</sub>): 350 daN

50 mm



Mindestbruchkraft: 5.000 daN

**Item No. 129100000013**

Webbing width: 50 mm  
 Overall length: 163 mm  
 Overall width: 95 mm  
 Width of handle: 76 mm

50 mm



Minimum breaking force: 3,000 daN

**Item No. 129180000013A**

Webbing width: 50 mm  
 Overall length: 180 mm  
 Overall width: 98 mm  
 Width of handle: 95 mm  
 ST<sub>F1</sub>): 240 daN

50 mm



Minimum breaking force: 2,000 daN

**Item No. 129160000013**

Webbing width: 50 mm  
 Overall length: 133 mm  
 Overall width: 76 mm  
 Width of handle: 84 mm  
 ST<sub>F1</sub>): 210 daN

35 mm



Minimum breaking  
force: 3,000 daN

**Item No. 12908000013**

Webbing width: 35 mm  
Overall length: 153 mm  
Overall width: 85 mm  
Width of handle: 55 mm  
STF<sup>®</sup>: 240 daN

35 mm



Minimum breaking  
force: 2,000 daN

**Item No. 12917000013**

Webbing width: 35 mm  
Overall length: 132 mm  
Overall width: 62 mm  
Width of handle: 65 mm  
STF<sup>®</sup>: 200 daN

25 mm



Minimum breaking  
force: 1,500 daN

**Item No. 12909000013**

Webbing width: 25 mm  
Overall length: 120 mm  
Overall width: 55 mm  
Width of handle: 56 mm  
STF<sup>®</sup>: 200 daN

25 mm Niro



Minimum breaking  
force: 1,500 daN

**Item No. 12909000030**

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. 12919000013**

Webbing width: 25 mm  
Overall length: 131 mm  
Overall width: 55 mm  
Width of handle: 56 mm

25 mm

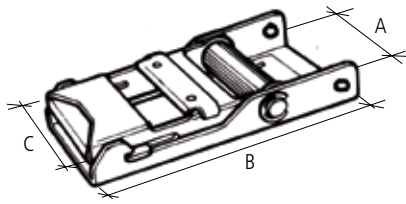


Minimum breaking  
force: 800 daN

**Item No. 12906000013**

Webbing width: 25 mm  
Overall length: 115 mm  
Overall width: 53 mm  
Width of handle: 35 mm  
STF<sup>®</sup>: 120 daN

# Overcenter locks



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

<sup>1)</sup> used in the WISTRA lashing straps  
 Supply of locks and end-fittings subject to dimensional deviations

## 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



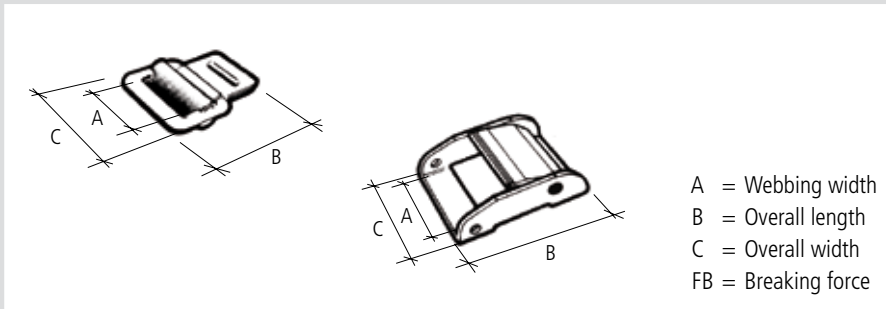
Minimum breaking  
 force: 1,450 daN

**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

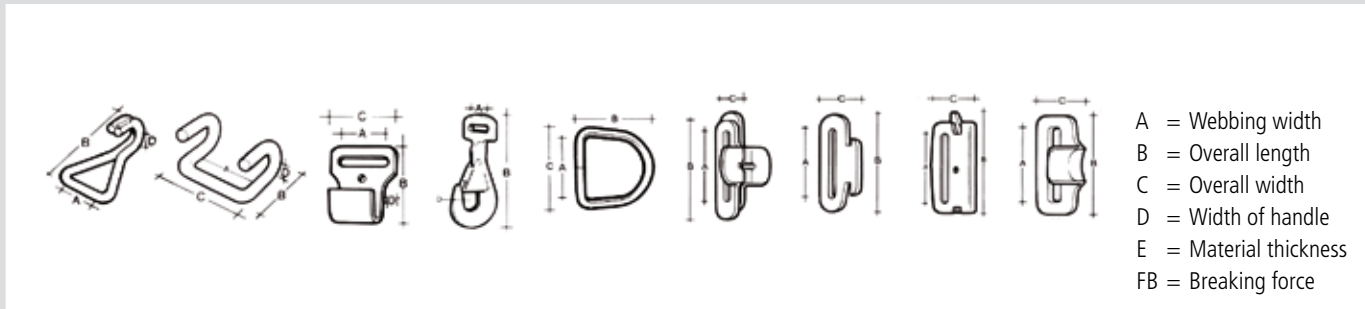


Minimum breaking force: 350 daN

**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 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: 30 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: 25 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

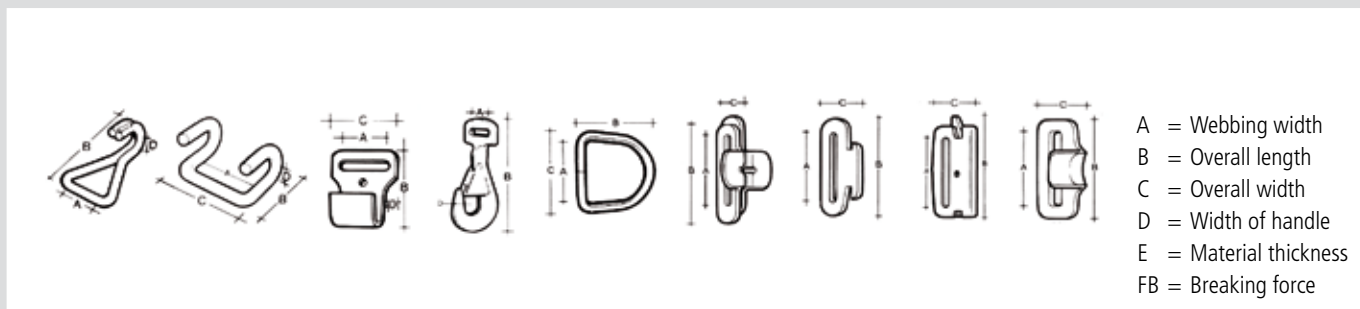
**50 mm**  
Pointed hook  
with web

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 deviations

50 mm

Triangle 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

50 mm

Spring hook

Minimum breaking  
force: 5,000 daN



**Item No. 140000021000**

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

50 mm

Spring hook

Minimum breaking  
force: 5,000 daN



**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



**Item No. 140000083400**

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

50 mm

Claw hook

Minimum breaking  
force: 5,000 daN



**Item No. 140000006500**

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

50 mm

Triangle

Minimum breaking  
force: 5,000 daN



**Item No. 140000001800**

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

50 mm  
Crown hook



Minimum breaking  
force: 2,500 daN

**Item No. 140000084012**

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

50 mm  
D-ring



Minimum breaking  
force: 5,000 daN

**Item No. 140000070800**

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

50 mm  
D-ring



Minimum breaking  
force: 2,270 daN

**Item No. 140000070600**

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

45 mm  
D-ring



Minimum breaking  
force: 1,700 daN

**Item No. 140000070500**

Webbing width: 45 mm  
Overall length: 60 mm  
Overall width: 67 mm  
Material thickness: 7 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: 18 mm  
Material thickness: 16 mm

50 mm  
Pointed hook for  
Ratchet 811



Minimum breaking  
force: 3,000 daN

**Item No. 140000035300**

Overall length: 108 mm  
Overall width: 51 mm  
Opening: 24 mm  
Material thickness: 13 mm

50 mm  
Pointed hook for  
Ratchet 918



Minimum breaking  
force: 3,000 daN

**Item No. 140000036100**

Overall length: 106 mm  
Overall width: 52 mm  
Opening: 24 mm  
Material thickness: 15 mm

50 mm  
Pointed hook



Minimum breaking  
force: 3,000 daN

**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: 3,000 daN

**Item No. 140000036000**

Webbing width: 50 mm  
Overall length: 108 mm  
Overall width: 82 mm  
Opening: 24 mm  
Material thickness: 15 mm

35 mm  
Pointed hook for  
Ratchet 908



Minimum breaking  
force: 3,000 daN

**Item No. 140000035600**

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

35 mm  
Pointed hook for  
Ratchet 908



Minimum breaking  
force: 3,000 daN

**Item No. 140000037100**

Overall length: 98 mm  
Overall width: 38 mm  
Opening: 24 mm  
Material thickness: 15 mm

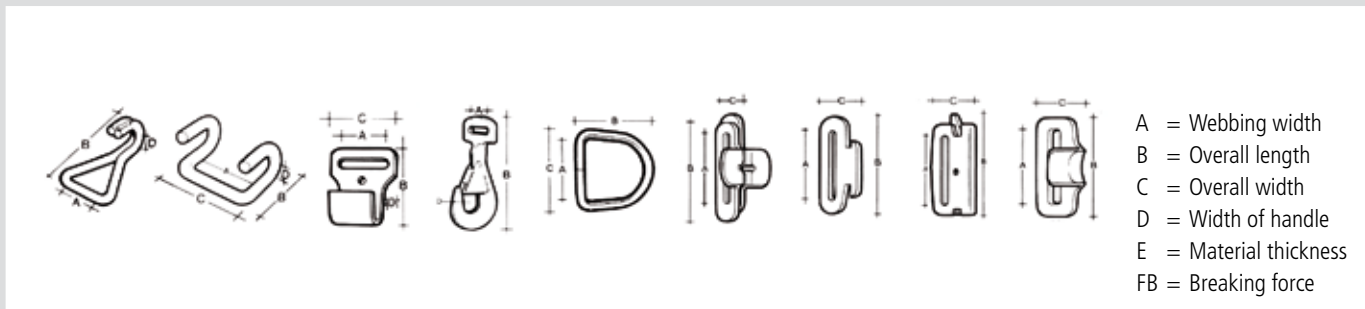
35 mm  
Pointed hook



Minimum breaking  
force: 3,000 daN

**Item No. 140000035400**

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



Supply of locks and end-fittings subject to dimensional deviations

35 mm

Pointed hook

Minimum breaking  
force: 3,000 daN



35 mm

Pointed hook

Minimum breaking  
force: 3,000 daN



35 mm

Pointed hook

Minimum breaking  
force: 3,000 daN



**Item No. 140000037000**

Webbing width: 35 mm  
 Overall length: 72 mm  
 Overall width: 82 mm  
 Opening: 24 mm  
 Material thickness: 15 mm

**Item No. 140000035200**

Webbing width: 50 mm  
 Overall length: 112 mm  
 Overall width: 81 mm  
 Opening: 24 mm  
 Material thickness: 13 mm

**Item No. 140000035500**

Webbing width: 35 mm  
 Overall length: 112 mm  
 Overall width: 60 mm  
 Opening: 24 mm  
 Material thickness: 13 mm

50 mm

End-fitting for  
Anchor combi  
lashing tracks

Minimum breaking  
force: 1,500 daN



50 mm

End-fitting for  
Anchor combi  
lashing tracks

Minimum breaking  
force: 2,000 daN



50 mm

End-fitting for  
Anchor combi  
lashing tracks

Minimum breaking  
force: 2,000 daN



**Item No. 140000082600**

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

**Item No. 140000082200**

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

**Art.-Nr. 140000082100**

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



50 mm

End-fitting for  
Keyhole

Minimum breaking  
force: 1,500 daN



**Item No. 140000087100**

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

**Item No. 140000082800**

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

**Item No. 140000038200**

Webbing width: 25 mm  
 Overall length: 60 mm  
 Overall width: 45 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. 14000001600**

Webbing width: 35 mm  
 Overall length: 47 mm  
 Overall width: 50 mm  
 Material thickness: 5 mm

**35 mm**

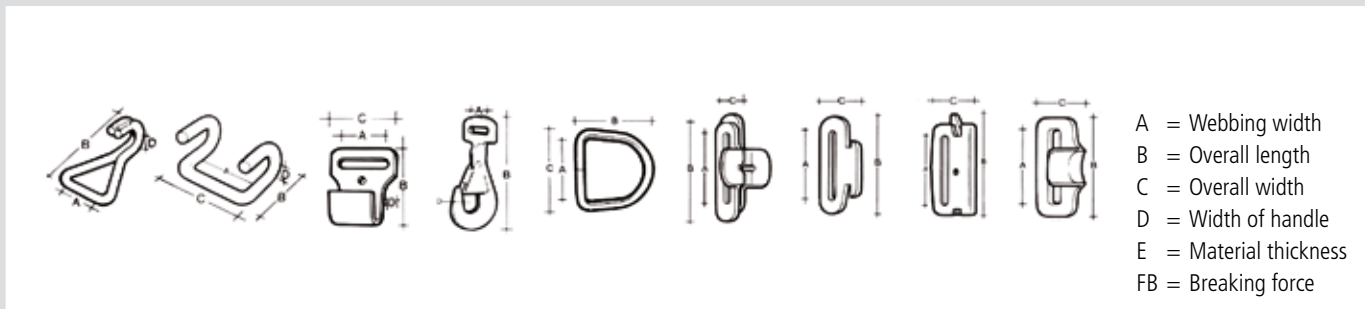
Spring hook



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 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: 1,500 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



Mindestbruchkraft:  
ohne Kennzeichnung

**Art.-Nr. 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

**Art.-Nr. 140000052600**

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



**25 mm**D-ring with  
drill holeMinimum breaking  
force: 1,500 daN**Item No. 140000031400**

Webbing width: 25 mm  
 Overall length: 28 mm  
 Overall width: 36 mm  
 Drill hole: 8 mm  
 Material thickness: 3 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 mm**End-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 mm**End-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 mm**End-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.
1200 daN	blue	m	000565
1200 daN	yellow	m	000105
1200 daN	grey	m	000314
1200 daN	green	m	000108
1200 daN	sky blue	m	000102
1200 daN	black	m	000122
1200 daN	signal blue	m	000569
2000 daN	blue	m	000564
2000 daN	grey	m	000118
2000 daN	sky blue	m	000114
2000 daN	red	m	000131

## 35 mm webbing



Roll form

Minimum breaking force	Colour	Unit of quantity	Item No.
3000 daN	grey	m	000502
3000 daN	green	m	000142
3000 daN	orange	m	000145
3000 daN	black	m	000150
4500 daN	blue	m	000506

## 50 mm webbing



Roll form

Minimum breaking force	Colour	Unit of quantity	Item No.
4000 daN	blue	m	000563
4000 daN	grey	m	000459
4000 daN	green	m	000192
4000 daN	olive green	m	000571
4000 daN	signal blue	m	000166
6000 daN	blue	m	000203
6000 daN	yellow	m	000220
6000 daN	green	m	000222
6000 daN	orange	m	000231
6000 daN	red	m	000327
6000 daN	black	m	000238
7600 daN	blue	m	000249
7600 daN	yellow	m	000269
7600 daN	orange	m	000288
7600 daN	red	m	000347

Other webbing colours available upon 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



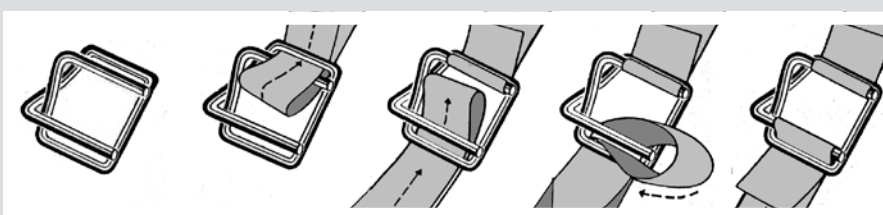
Designation	Width	Breaking force	Unit of quantity	Item No.
WIS hoop 30 S	9 mm	300 kP	1500 m/roll	420080300000
WIS hoop 40 S	13 mm	400 kP	1100 m/roll	420080400000
WIS hoop 50 S	16 mm	500 kP	850 m/roll	420080500000
WIS hoop 60 S	19 mm	600 kP	600 m/roll	420080600000
WIS hoop 45 S	13 mm	520 kP	800 m/roll	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	32 mm	1350 kP	150 m/roll	420081050000



Designation	for webbing width	Unit of quantity	Item No.
WIS buckle B-3	9 mm	1000 pieces/box	420300000012
WIS buckle B-4	13 mm	1000 pieces/box	420400000012
WIS buckle B-5	16 mm	1000 pieces/box	420500000012
WIS buckle B-6	19 mm	1000 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	2000 daN	100 m/roll	<b>410013850070</b>



Buckle

Designation	Width	Breaking force	Unit of quantity	Item No.
Key-Lock buckle	50 mm	2000 daN	50 pieces	<b>41180000015</b>



Hand tensioner

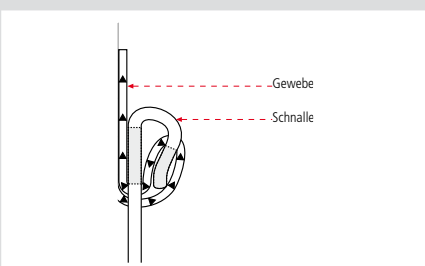


Hand tensioner  
Type AVT 50

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



Ratchet tensioner



## WISTRA one-way lashing straps

**WISTRA** belt straps are a cost-effective alternative for lashing straps.

Handling is easy and with a high breaking force of up to 5,000 daN the application is versatile in containers, on ships, on trains or in trucks.



Designation	Width	Breaking force in straight tension	Unit of quantity	Item No.
WIS lashing strap	32 mm	1600 daN	250 m/bag	<b>42321600</b>
WIS lashing strap	32 mm	2000 daN	250 m/bag	<b>42322000</b>
WIS lashing strap	32 mm	2300 daN	250 m/bag	<b>42322300</b>
WIS lashing strap	40 mm	5000 daN	250 m/bag	<b>42405000</b>
WIS lashing strap	50 mm	5000 daN	250 m/bag	<b>42505000</b>



Designation	for webbing width	Breaking force in straight tension	Unit of quantity	Item No.
WIS lashing buckle, forged	32 mm	3000 daN	70 pieces/box	<b>413230001</b>
WIS lashing buckle, forged	40 mm	4000 daN	50 pieces/box	<b>414040001</b>
WIS lashing buckle, forged	50 mm	5000 daN	40 pieces/box	<b>415050001</b>



Designation	for webbing width	Breaking force in straight tension	Unit of quantity	Item No.
WIS lashing buckle, welded	40 mm	3000 daN	70 pieces/box	<b>414030002</b>
WIS lashing buckle, welded	50 mm	5000 daN	50 pieces/box	<b>415050002</b>



Designation	for webbing width	Breaking force in straight tension	Unit of quantity	Item No.
WIS lashing buckle, bent	35 mm	1600 daN	220 pieces/box	<b>413516003</b>
WIS lashing buckle, bent	50 mm	2000 daN	125 pieces/box	<b>415020003</b>

Thread the lashing strap into the buckle:







## LogiStrap™

**LogiStrap™** is a reusable belt strap for securing goods on pallets when transporting and offers many advantages compared to disposable packaging:

- Costs for disposable packagings such as shrink foils or plastic and metal bands are reduced.
- Less wastage
- Quick and easy handling
- Multi-purpose



Material: Polyamide  
 Width: 50 mm  
 Total breaking force of the strap: 105 daN

	Bezeichnung	Artikelnr.
	LogiStrap 4 m yellow	43 00 01-4000
	LogiStrap 5 m orange	43 00 02-5000
	LogiStrap 6 m green	43 00 03-6000
 350 mm	LogiStrap 7 m blue	43 00 04-7000

### WISTRA Tip

Other widths, lengths, colours or with customer logo upon request

# 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	Art.Nr.	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
			Umfang	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	1000 kg	61010 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 20	2000 kg	61020 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 30	3000 kg	61030 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 40	4000 kg	61040 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 50	5000 kg	61050 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 60	6000 kg	61060 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 80	8000 kg	61080 XX 00027	01	02	03	04	05	06	07	08	09	10	12	
SX 100	10000 kg	61100 XX 00027	01	02	03	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	1000 kg	1000 kg	800 kg	2000 kg	1400 kg	1000 kg
SX 20	2000 kg	2000 kg	1600 kg	4000 kg	2800 kg	2000 kg
SX 30	3000 kg	3000 kg	2400 kg	6000 kg	4200 kg	3000 kg
SX 40	4000 kg	4000 kg	3200 kg	8000 kg	5600 kg	4000 kg
SX 50	5000 kg	5000 kg	4000 kg	10000 kg	7000 kg	5000 kg
SX 60	6000 kg	6000 kg	4800 kg	12000 kg	8400 kg	6000 kg
SX 80	8000 kg	8000 kg	6400 kg	16000 kg	11200 kg	8000 kg
SX 100	10000 kg	10000 kg	8000 kg	20000 kg	14000 kg	10000 kg






## Lifting slings



· Figure 1:7

Type	Nominal carrying capacity	Webbing width	Art.Nr.	Länge											
				1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	12 m	
MC 10	1000 kg	30 mm	62010 XX 03021	01	02	03	04	05	06	07	08	09	10	12	
MC 20	2000 kg	60 mm	62010 XX 06021	01	02	03	04	05	06	07	08	09	10	12	
MC 30	3000 kg	90 mm	62010 XX 09021	01	02	03	04	05	06	07	08	09	10	12	
MC 40	4000 kg	120 mm	62010 XX 12021	01	02	03	04	05	06	07	08	09	10	12	
MC 50	5000 kg	150 mm	62010 XX 15021	01	02	03	04	05	06	07	08	09	10	12	
MC 60	6000 kg	180 mm	62010 XX 18021	01	02	03	04	05	06	07	08	09	10	12	
MC 80	8000 kg	240 mm	62010 XX 24021	01	02	03	04	05	06	07	08	09	10	12	
MC 100	10000 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	1000 kg	1000 kg	800 kg	2000 kg	1400 kg	1000 kg
MC 20	2000 kg	2000 kg	1600 kg	4000 kg	2800 kg	2000 kg
MC 30	3000 kg	3000 kg	2400 kg	6000 kg	4200 kg	3000 kg
MC 40	4000 kg	4000 kg	3200 kg	8000 kg	5600 kg	4000 kg
MC 50	5000 kg	5000 kg	4000 kg	10000 kg	7000 kg	5000 kg
MC 60	6000 kg	6000 kg	4800 kg	12000 kg	8400 kg	6000 kg
MC 80	8000 kg	8000 kg	6400 kg	16000 kg	11200 kg	8000 kg
MC 100	10000 kg	10000 kg	8000 kg	20000 kg	14000 kg	10000 kg

# Mechanical load securing





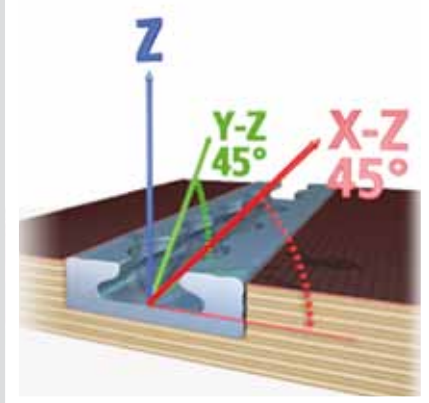
- With our WISTRA products in the area of mechanical load production aids we offer quick and safe options of form-fit load securing for the most diverse means of transport.

Many items in this product range were developed in close cooperation with vehicle body manufacturers, the railway, haulage companies, post, parcel services, dispatch departments and others. They have been proven in practice. They distinguish themselves through easy and quick handling and offer optimal load securing through form-fit.

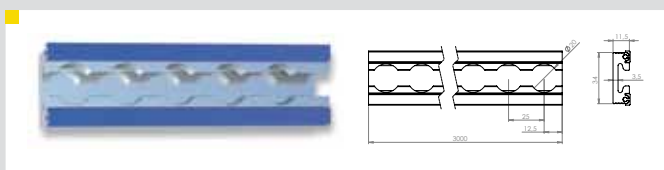
# Lashing tracks

## Airline lashing tracks

### WISTRA Info



### Aluminium airline lashing track 5500 with rubber protection



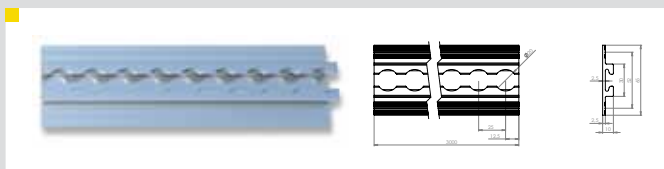
#### LC Lashing Capacity

WIS end-fitting	379	380
Z 90°	500 daN	500 daN
X-Z 45°	500 daN	500 daN
Y-Z 45°	400 daN	400 daN

Lashing capacity for attachment: every 75 mm centrally with a countersunk screw M6 DIN 7991 10.9

Designation	length	Item No.
Airline lashing track 5500	500 mm	<b>21550025-0500</b>
Airline lashing track 5500	1,000 mm	<b>21550025-1000</b>
Airline lashing track 5500	1,500 mm	<b>21550025-1500</b>
Airline lashing track 5500	1,975 mm	<b>21550025-1975</b>
Airline lashing track 5500	2,000 mm	<b>21550025-2000</b>
Airline lashing track 5500	3,000 mm	<b>21550025-3000</b>
Airline lashing track 5500	4,000 mm	<b>21550025-4000</b>
Airline lashing track 5500	5,000 mm	<b>21550025-5000</b>
Airline lashing track 5500	6,000 mm	<b>21550025-6000</b>

### Aluminium airline lashing track 5501



#### LC Lashing Capacity

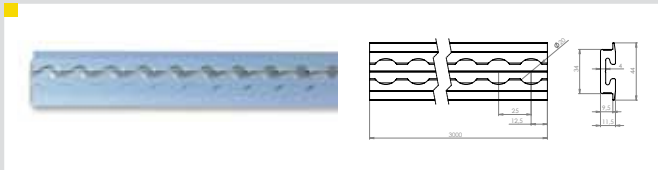
WIS end-fitting	379	380
Z 90°	500 daN	500 daN
X-Z 45°	500 daN	500 daN
Y-Z 45°	400 daN	400 daN

Lashing capacity for attachment: every 75 mm oppositely with a countersunk screw M6 DIN 7380 8.8

Designation	length	Item No.
Airline lashing track 5501	500 mm	<b>21550125-0500</b>
Airline lashing track 5501	1,000 mm	<b>21550125-1000</b>
Airline lashing track 5501	1,500 mm	<b>21550125-1500</b>
Airline lashing track 5501	1,975 mm	<b>21550125-1975</b>
Airline lashing track 5501	2,000 mm	<b>21550125-2000</b>
Airline lashing track 5501	3,000 mm	<b>21550125-3000</b>
Airline lashing track 5501	4,000 mm	<b>21550125-4000</b>
Airline lashing track 5501	5,000 mm	<b>21550125-5000</b>
Airline lashing track 5501	6,000 mm	<b>21550125-6000</b>

Special lengths upon request

### Aluminium airline lashing track 5502

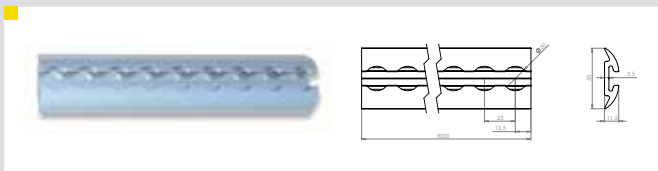


LC Lashing Capacity		
WIS end-fitting	379	380
Z 90°	500 daN	1000 daN
X-Z 45°	500 daN	1000 daN
Y-Z 45°	400 daN	900 daN

Lashing capacity for attachment: every 75 mm centrally with a countersunk screw M6 DIN 7991 10.9

Designation	length	Item No.
Airline lashing track 5502	500 mm	<b>21550225-0500</b>
Airline lashing track 5502	1000 mm	<b>21550225-1000</b>
Airline lashing track 5502	1500 mm	<b>21550225-1500</b>
Airline lashing track 5502	1975 mm	<b>21550225-1975</b>
Airline lashing track 5502	2000 mm	<b>21550225-2000</b>
Airline lashing track 5502	3000 mm	<b>21550225-3000</b>
Airline lashing track 5502	4000 mm	<b>21550225-4000</b>
Airline lashing track 5502	5,000 mm	<b>21550225-5000</b>
Airline lashing track 5502	6,000 mm	<b>21550225-6000</b>

### Aluminium airline lashing track 5503

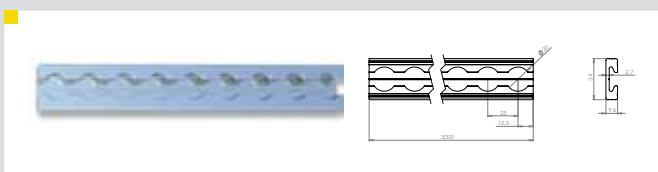


LC Lashing Capacity		
WIS end-fitting	379	380
Z 90°	500 daN	1000 daN
X-Z 45°	500 daN	1000 daN
Y-Z 45°	400 daN	900 daN

Lashing capacity for attachment: every 75 mm centrally with a countersunk screw M6 DIN 7991 10.9

Designation	length	Item No.
Airline lashing track 5503	500 mm	<b>21550325-0500</b>
Airline lashing track 5503	1,000 mm	<b>21550325-1000</b>
Airline lashing track 5503	1,500 mm	<b>21550325-1500</b>
Airline lashing track 5503	1,975 mm	<b>21550325-1975</b>
Airline lashing track 5503	2,000 mm	<b>21550325-2000</b>
Airline lashing track 5503	3,000 mm	<b>21550325-3000</b>
Airline lashing track 5503	4,000 mm	<b>21550325-4000</b>
Airline lashing track 5503	5,000 mm	<b>21550325-5000</b>
Airline lashing track 5503	6,000 mm	<b>21550325-6000</b>

### Aluminium airline lashing track 5504



LC Lashing Capacity		
WIS end-fitting	379	380
Z 90°	500 daN	500 daN
X-Z 45°	500 daN	500 daN
Y-Z 45°	400 daN	400 daN

Lashing capacity for attachment: every 75 mm centrally with a countersunk screw M6 DIN 7991 10.9

Designation	length	Item No.
Airline lashing track 5504	500 mm	<b>21550425-0500</b>
Airline lashing track 5504	1,000 mm	<b>21550425-1000</b>
Airline lashing track 5504	1,500 mm	<b>21550425-1500</b>
Airline lashing track 5504	1,975 mm	<b>21550425-1975</b>
Airline lashing track 5504	2,000 mm	<b>21550425-2000</b>
Airline lashing track 5504	3,000 mm	<b>21550425-3000</b>
Airline lashing track 5504	4,000 mm	<b>21550425-4000</b>
Airline lashing track 5504	5,000 mm	<b>21550425-5000</b>
Airline lashing track 5504	6,000 mm	<b>21550425-6000</b>

Special lengths upon request

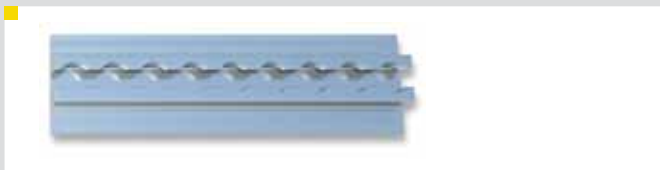
## Airline lashing lashing tracks, processed

### Aluminium airline lashing track 5500 with rubber protection



Designation	length	Item No.
with 6.5 mm countersunk hole - every 75 mm		
Airline lashing track 5500B75	3,000 mm	<b>215500B75-3000</b>
Airline lashing track 5500B75	6000 mm	<b>215500B75-6000</b>
with 6.5 mm countersunk hole - every 25 mm		
Airline lashing track 5500B25	3000 mm	<b>215500B25-3000</b>
Airline lashing track 5500B25	6000 mm	<b>215500B25-6000</b>

### Aluminium airline lashing track 5501



Designation	length	Item No.
with 6.5 mm countersunk hole - every 75 mm		
Airline lashing track 5501B75	3,000 mm	<b>215501B75-3000</b>
Airline lashing track 5501B75	6000 mm	<b>215501B75-6000</b>
with 6.5 mm countersunk hole - every 25 mm		
Airline lashing track 5501B25	3,000 mm	<b>215501B25-3000</b>
Airline lashing track 5501B25	6000 mm	<b>215501B25-6000</b>

### Aluminium airline lashing track 5502



Designation	length	Item No.
with 6.5 mm countersunk hole - every 75 mm		
Airline lashing track 5502B75	3,000 mm	<b>215502B75-3000</b>
Airline lashing track 5502B75	6000 mm	<b>215502B75-6000</b>
with 6.5 mm countersunk hole - every 25 mm		
Airline lashing track 5502B25	3,000 mm	<b>215502B25-3000</b>
Airline lashing track 5502B25	6000 mm	<b>215502B25-6000</b>

### Aluminium airline lashing track 5503



Designation	length	Item No.
with 6.5 mm countersunk hole - every 75 mm		
Airline lashing track 5503B75	3,000 mm	<b>215503B75-3000</b>
Airline lashing track 5503B75	6000 mm	<b>215503B75-6000</b>
with 6.5 mm countersunk hole - every 25 mm		
Airline lashing track 5503B25	3,000 mm	<b>215503B25-3000</b>
Airline lashing track 5503B25	6000 mm	<b>215503B25-6000</b>

### Aluminium airline lashing track 5504



Designation	length	Item No.
with 6.5 mm countersunk hole - every 75 mm		
Airline lashing track 5504B25	3,000 mm	<b>215504B75-3000</b>
Airline lashing track 5504B25	6000 mm	<b>215504B75-6000</b>
with 6.5 mm countersunk hole - every 25 mm		
Airline lashing track 5504B25	3,000 mm	<b>215504B25-3000</b>
Airline lashing track 5504B25	6000 mm	<b>215504B25-6000</b>

Special lengths upon request

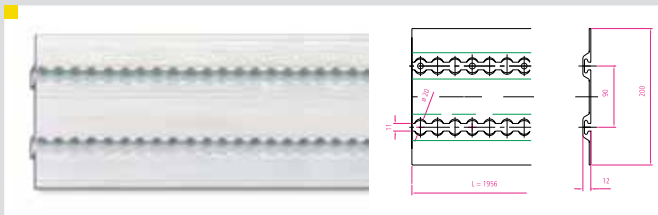
# Airline lashing lashing tracks, processed

## Aluminium airline lashing track 5100



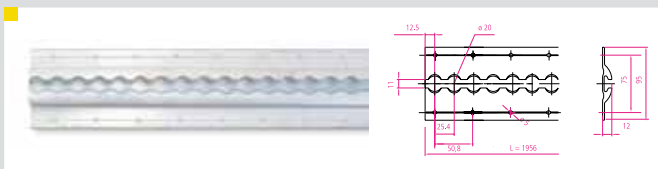
Designation	length	Item No.
Airline lashing track 5100	1956 mm	<b>215100252020</b>

## Aluminium airline lashing track 5120



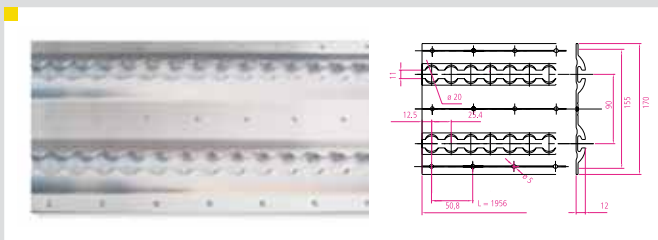
Designation	length	Item No.
Airline lashing track 5120	1956 mm	<b>215120252020</b>

## Aluminium airline lashing track 5000



Designation	length	Item No.
Airline lashing track 5000	1956 mm	<b>215000252020</b>

## Aluminium airline lashing track 5020



Designation	length	Item No.
Airline lashing track 5020	1956 mm	<b>215020252020</b>

## Steel airline lashing track 5001

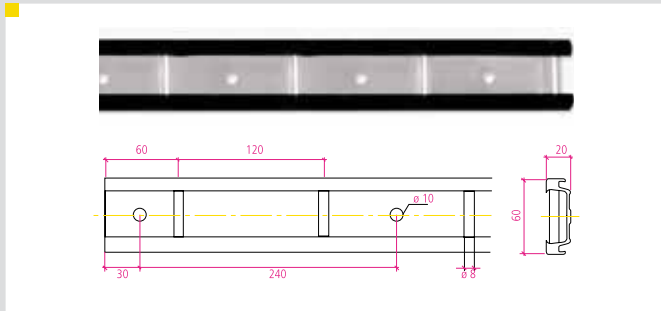


Designation	Item No.
Steel galvanised	<b>215001312012</b>

Standard length: 2400 mm

## Track with pins

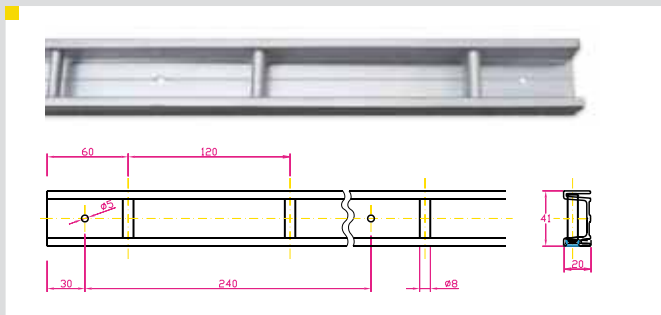
### Aluminium track with pins 4710 with rubber protection



Pin diameter 8 mm

Designation	length	Item No.
Track with pins 4710	500 mm	<b>21471020-0500</b>
Track with pins 4710	1000 mm	<b>21471020-1000</b>
Track with pins 4710	1500 mm	<b>21471020-1500</b>
Track with pins 4710	1980 mm	<b>21471020-1980</b>
Track with pins 4710	2000 mm	<b>21471020-2000</b>
Track with pins 4710	3000 mm	<b>21471020-3000</b>
Track with pins 4710	4000 mm	<b>21471020-4000</b>
Track with pins 4710	5000 mm	<b>21471020-5000</b>
Track with pins 4710	6000 mm	<b>21471020-6000</b>

### Aluminium track with pins 4720



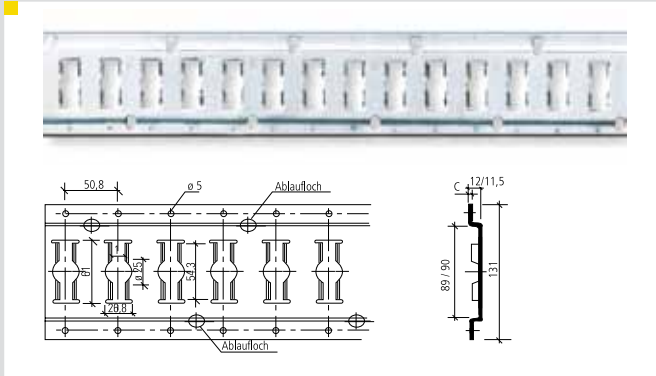
Pin diameter 8 mm

Designation	length	Item No.
Track with pins 4720	500 mm	<b>21472020-0500</b>
Track with pins 4720	1000 mm	<b>21472020-1000</b>
Track with pins 4720	1,500 mm	<b>21472020-1500</b>
Track with pins 4720	1,980 mm	<b>21472020-1980</b>
Track with pins 4720	2,000 mm	<b>21472020-2000</b>
Track with pins 4720	3000 mm	<b>21472020-3000</b>
Track with pins 4720	4000 mm	<b>21472020-4000</b>
Track with pins 4720	5000 mm	<b>21472020-5000</b>
Track with pinst 4720	6000 mm	<b>21472020-6000</b>



# Lashing tracks

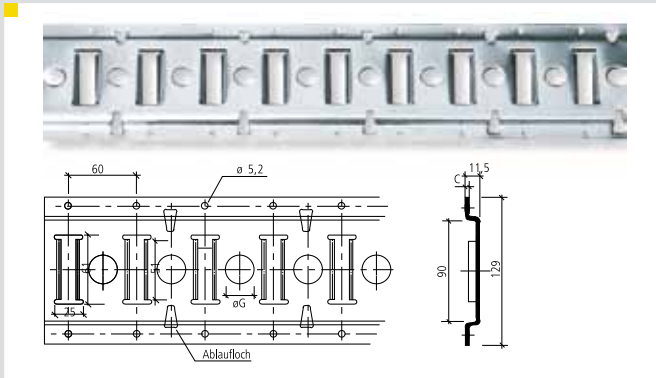
## Anchor combi lashing track 3009



Designation	Dimension C	Item No.
Steel galvanised	2.5 mm	<b>213009250012</b>
Steel galvanised	3.0 mm	<b>213009300012</b>
Steel hot-dip galvanised	2.5 mm	<b>213009250014</b>
Steel hot-dip galvanised	3.0 mm	<b>213009300014</b>
Stainless steel	2.5 mm	<b>213009250030</b>
Aluminium	3.0 mm	<b>213009300020</b>

Standard length: 3000 mm

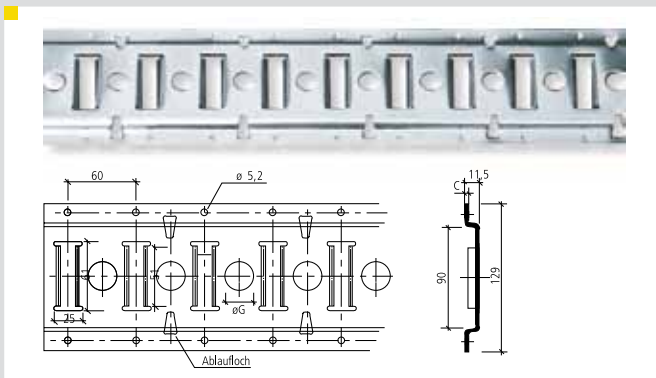
## Anchor combi lashing track 3008 with 20 mm hole size



Designation	Dimension C	Item No.
Steel galvanised	2.5 mm	<b>213008252012</b>
Steel galvanised	3.0 mm	<b>213008302012</b>
Steel hot-dip galvanised	2.5 mm	<b>213008252014</b>
Steel hot-dip galvanised	3.0 mm	<b>213008302014</b>
Stainless steel	2.5 mm	<b>213008252030</b>
Aluminium	3.0 mm	<b>213008302020</b>

Standard length: 3000 mm

## Anchor combi lashing track 3008 with 25 mm hole size

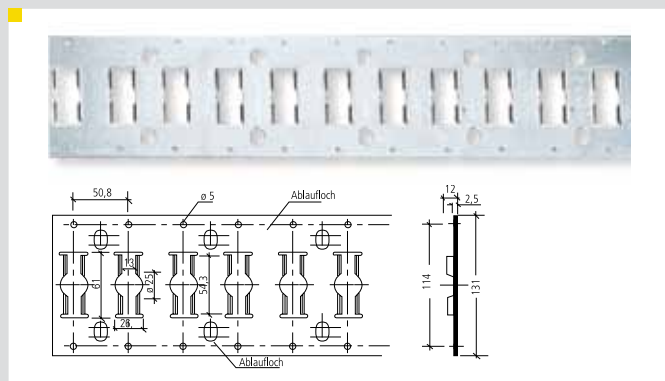


Designation	Dimension C	Item No.
Steel galvanised	2.5 mm	<b>213008252512</b>
Steel galvanised	3.0 mm	<b>213008302512</b>
Steel hot-dip galvanised	2.5 mm	<b>213008252514</b>
Steel hot-dip galvanised	3.0 mm	<b>213008302514</b>
Stainless steel	2.5 mm	<b>213008252530</b>
Aluminium	3.0 mm	<b>213008302525</b>

Standard length: 3000 mm

Special lengths upon request

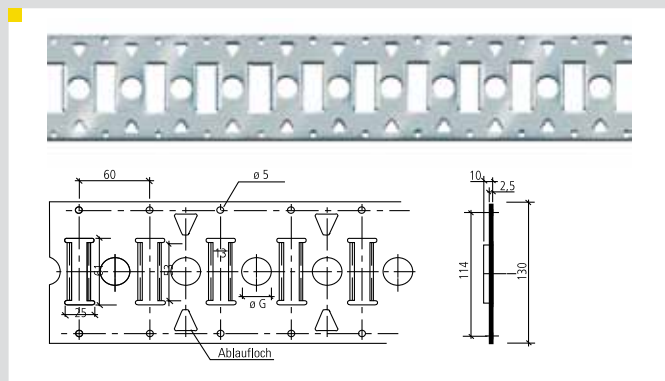
### Anchor combi lashing track 3109



Designation	Dimension C	Item No.
Steel galvanised	2.5 mm	<b>213109250012</b>
Stainless steel	2.5 mm	<b>213109250030</b>

Standard length: 3000 mm

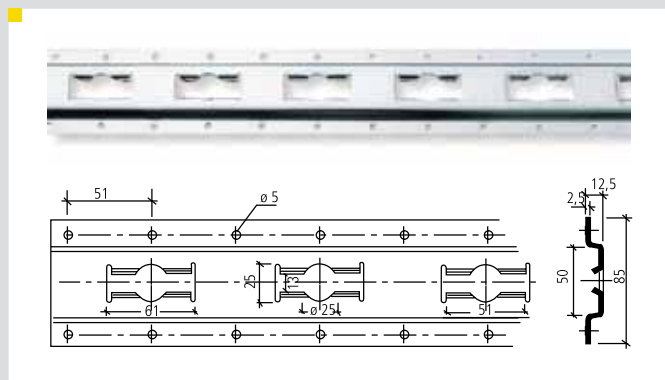
### Anchor combi lashing track 3108



Designation	Dimension C	Item No.
<b>with hole size 20 mm</b>		
Steel galvanised	2.5 mm	<b>213108252012</b>
Stainless steel	2.5 mm	<b>213108252030</b>
<b>with hole size 25 mm</b>		
Steel galvanised	2.5 mm	<b>213108252512</b>
Stainless steel	2.5 mm	<b>213108252530</b>

Standard length: 3000 mm

### Anchor combi lashing track 2010



Designation	Dimension C	Item No.
Steel galvanised	2.5 mm	<b>212010250812</b>

Standard length: 2400 mm

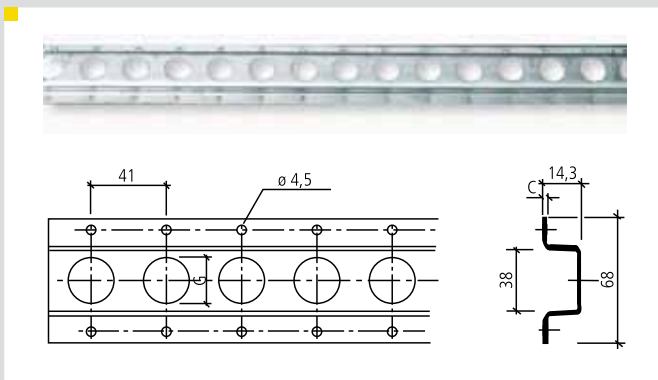
Special lengths upon request

### Round hole lashing track 1805



Designation	Dimension C	Item No.
with hole size 20 mm		
Steel galvanised	1.8 mm	<b>211805182012</b>
Steel galvanised	2.0 mm	<b>211805202012</b>
with hole size 25 mm		
Steel galvanised	1.8 mm	<b>211805182512</b>
Steel galvanised	2.0 mm	<b>211805202512</b>

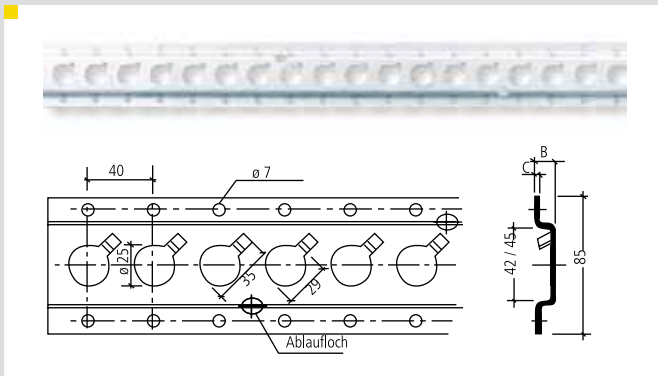
Standard length: 3000 mm



Designation	Dimension C	Item No.
with hole size 25 mm		
Steel galvanised	2.0 mm	<b>211805122512</b>

Standard length: 3000 mm

### Round hole lashing track 1806 with cut-out

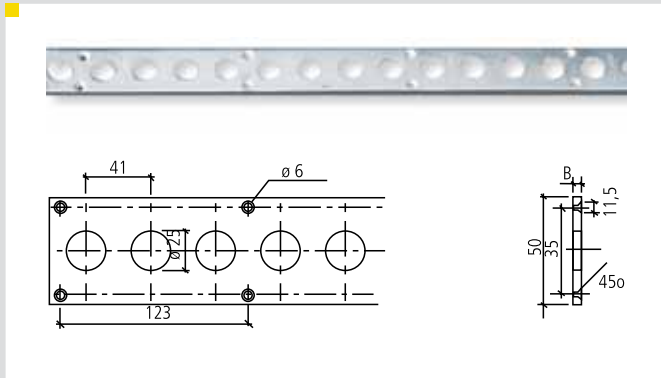


Designation	Dimension C	Item No.
with mounting height 12 mm (dimension B)		
Steel galvanised	2.5 mm	<b>211806251212</b>
Steel galvanised	3.0 mm	<b>211806301212</b>
Stainless steel	2.0 mm	<b>211806201230</b>
with mounting height 15 mm (dimension B)		
Steel galvanised	2.0 mm	<b>211806201552</b>
Steel galvanised	2.5 mm	<b>211806251512</b>
Stainless steel	2.0 mm	<b>211806201530</b>

Standard length: 3000 mm

Special lengths upon request

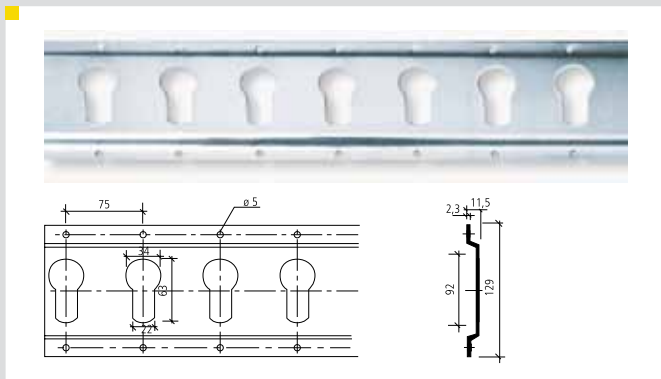
### Round hole lashing track 3004



Bezeichnung	Maß C	Artikelnr.
Stahl verzinkt	5 mm	<b>213004502512</b>
Aluminium	6 mm	<b>213004602520</b>

Standard length: 3,000 mm

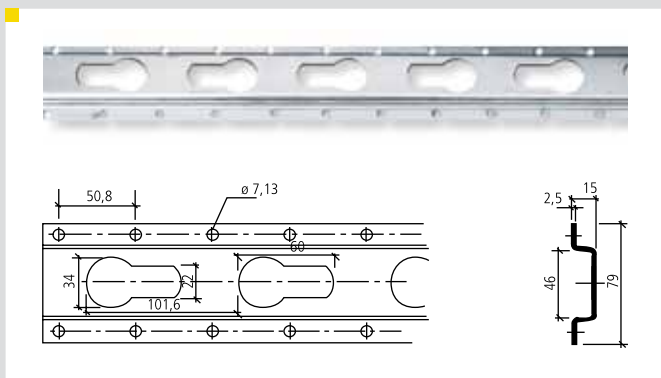
### Key-hole lashing track 1803 horizontal



Bezeichnung	Maß C	Artikelnr.
Stahl verzinkt	2,3 mm	<b>211803200852</b>

Standard length: 3,000 mm

### Key-hole lashing track 1803 vertical



Bezeichnung	Maß C	Artikelnr.
Stahl verzinkt	2,5 mm	<b>211803200152</b>

Standard length: 3,000 mm

Special lengths upon request



**Airline version, aluminium**



**Item No. 21 5400 00 10 20**

Standard length: 45 mm

Weight: 0.037 kg

LC Lashing Capacity	
WIS end-fitting	379
Z 90°	300 daN
X-Z 45°	300 daN
Y-Z 45°	300 daN

Lashing capacity for attachment:  
with 4 head screws M4 DIN 7380 8.8

**Airline lashing point**



**Item No. 21 5600 25**

Material: Aluminium, with 2 drill holes

20 mm round shape

LC Lashing Capacity	
WIS end-fitting	379
Z 90°	500 daN
X-Z 45°	500 daN
Y-Z 45°	500 daN

Lashing capacity for attachment:  
with 2 countersunk screws M6 DIN 7991 10.9

**Airline Track Cover Profile**



**Item No. 21 5109 01-1975**

Standard length: 1975 mm

Weight: 0.275 kg

Plastic, grey RAL 7035

## Lashing track accessories

### End cap for airline lashing track



**Item No. 21510341040**

Plastic, grey RAL 7001  
Unit of quantity: Pieces

### End cap for airline lashing track



**Item No. 215106501340**

Plastic, blue  
Unit of quantity: Pieces

### End cap for airline lashing track



**Item No. 215106501240**

Plastic, grey RAL 7001  
Unit of quantity: Pieces

### End cap for lashing track with pins 4710



**Item No. 212106662240**

Plastic, grey RAL 7001  
Unit of quantity: Pieces

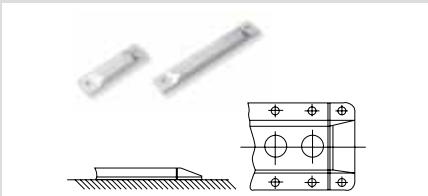
### End cap for lashing track with pins 4720



**Item No. 212106462040**

Plastic, grey RAL 7001  
Unit of quantity: Pieces

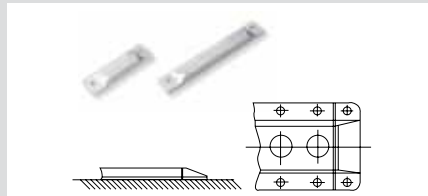
### End cap for lashing tracks



**Item No. 212109951240**

Plastic, grey RAL 7001  
e.g. for lashing tracks 3008, 3009  
Unit of quantity: Pieces

### End cap for lashing tracks



**Item No. 212106501240**

Plastic, grey RAL 7001  
e.g. for lashing tracks 1806  
Unit of quantity: Pieces

### Screw fitting including plate



**Item No. 21510725**

Screw fitting M8 galvanised Zn. 8.8 for airline track consisting of:  
clamping bracket, screw, nut

# WISTRA parting walls and parting grids

The WISTRA parting walls and parting grids are manufactured according to individual customer requirements and application purposes.

They can fulfil different functions like:

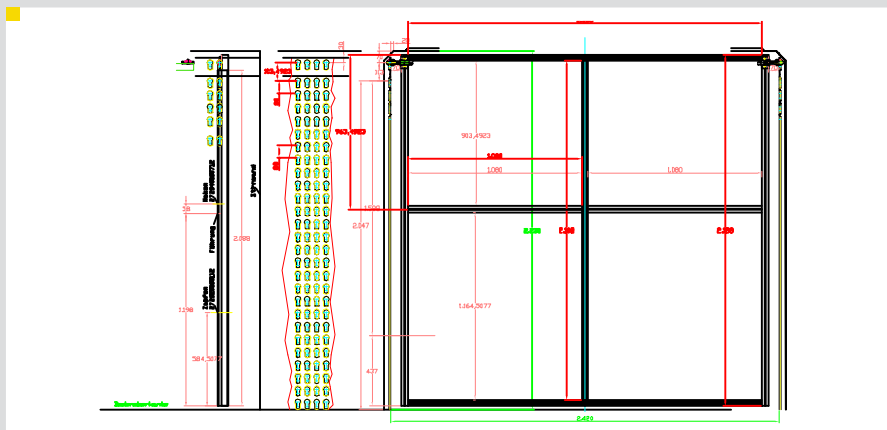
- local partition by means of frame and tarpaulin
- local partition by means of hole sheet panel guided by rolls and upward tilting
- parting grids as cargo control

## WISTRA Info

Can be supplied in all sizes



Successfully implemented:



## WISTRA Safepart Theft protected partitioning of cargo space

### Version

- integrated theft protection
- easy partitioning of partial lots at low costs
- spatial and visual partitioning
- easy to mount and remove
- variable for commercial hole panel walls and lashing tracks
- lightweight – can be rolled up if not in use





# WISTRA cold safe wall



A division is possible for large cold safe walls. The cold safe wall shown here is additionally fixed to the existing lashing tracks.

The new cold safe wall separates the storage room of refrigerated vehicles into different temperature zones. The flexibility of the used vehicles are thereby increased, as for example deep-frozen goods and fresh fruits can be transported in one vehicle.

The energy consumption is further reduced by the need-based separation into different temperature zones.

Temperature zones for deep freezer, refrigerator and normal temperature are required for the transport of foodstuffs.

The transport of easily perishable foodstuff in international transport requires vehicle structures with a valid ATP certificate, e.g. an FRC classification is used.

The middle letter stands for thermal insulation.

- Moveable light cold safe wall
- Customisation in required number of pieces
- With two-side carry straps
- Hygienic PVC outer wrapping
- Lateral seals for complete seating
- Clamped on the vehicle body without any tools

N: Normal thermal insulation with a K value  $\leq 0.7 \text{ Wm}^2\text{K}$

R: Increased thermal insulation with a K value  $\leq 0.4 \text{ Wm}^2\text{K}$

The WISTRA cold safe walls have a K value of  $0.4 \text{ Wm}^2\text{K}$



Due to the multi-layered structure the cold safe walls are easy to handle and rugged in application. The bottom edge is constructed as a shock-proof base edge.

The total wall thickness is 70 mm with a 50 mm thick PUR rigid foam core inside.

The lateral seals fix the cold safe wall at the same time.

The cold safe walls are custom-made.

Special colours and markings are possible upon request.



When ordering please specify:

- B Clear inside width between the inner walls
- H Clear inside height between ceiling and floor
- H1 If applicable, central lashing track height and specification of the lashing track type
- H2 ditto

Parting: 1/2 and 1/2 or 2/3 and 1/3, attach drawing if applicable

Delineation of all components located in the clearance of B and H with dimensioning of the position and output.

Description of all specifications required for the production and application.

For vehicles and structures with curved walls, please dimension the contour accurately and provide a template.

# 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.

- 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
- $\mu D$  = dynamic sliding friction coefficient

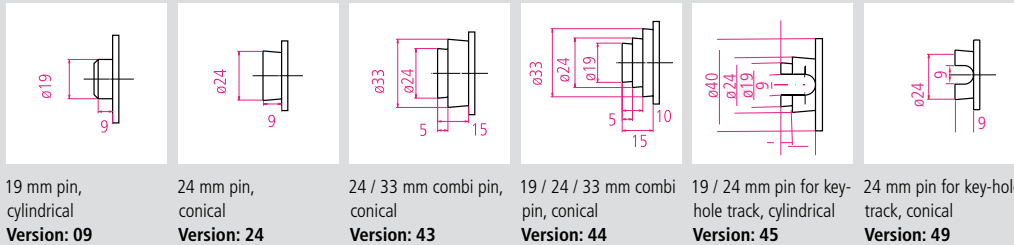
Blocking capacity of the form-fit	Maximum weight of the load unit/s					
	for $\mu D$ 0,2		for $\mu D$ 0,4		for $\mu D$ 0,6	
	0,8	0,5	0,8	0,5	0,8	0,5
50 daN	80 kg	160 kg	120 kg	500 kg	250 kg	*)
100 daN	160 kg	330 kg	250 kg	1000 kg	500 kg	*)
150 daN	250 kg	500 kg	370 kg	1500 kg	750 kg	*)
200 daN	330 kg	660 kg	500 kg	2000 kg	1000 kg	*)
250 daN	410 kg	830 kg	620 kg	2500 kg	1250 kg	*)
300 daN	500 kg	1000 kg	750 kg	3000 kg	1500 kg	*)
350 daN	580 kg	1160 kg	870 kg	3500 kg	1750 kg	*)
400 daN	660 kg	1330 kg	1000 kg	4000 kg	2000 kg	*)
450 daN	750 kg	1500 kg	1120 kg	4500 kg	2250 kg	*)
500 daN	830 kg	1660 kg	1250 kg	5000 kg	2500 kg	*)
550 daN	910 kg	1830 kg	1370 kg	5500 kg	2750 kg	*)
600 daN	1000 kg	2000 kg	1500 kg	6000 kg	3000 kg	*)
650 daN	1080 kg	2160 kg	1620 kg	6500 kg	3250 kg	*)
750 daN	1250 kg	2500 kg	1870 kg	7500 kg	3750 kg	*)
800 daN	1330 kg	2660 kg	2000 kg	8000 kg	4000 kg	*)
900 daN	1500 kg	3000 kg	2250 kg	9000 kg	4500 kg	*)
1000 daN	1660 kg	3330 kg	2500 kg	10000 kg	5000 kg	*)
1250 daN	2080 kg	4160 kg	3120 kg	12500 kg	6250 kg	*)
1500 daN	2500 kg	5000 kg	3750 kg	15000 kg	7500 kg	*)
1750 daN	2910 kg	5830 kg	4370 kg	17500 kg	8750 kg	*)
2000 daN	3330 kg	6660 kg	5000 kg	20000 kg	10000 kg	*)
3000 daN	5000 kg	10000 kg	7500 kg	30000 kg	15000 kg	*)
4000 daN	6660 kg	13330 kg	10000 kg	40000 kg	20000 kg	*)
5000 daN	8330 kg	16660 kg	12500 kg	50000 kg	25000 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  $\mu D$

# Shoring beam

## WISTRA standard aluminium power shoring beam 1850

### End pin versions



Additional pin versions upon request



Version of rod lashing tracks is deviant

Standard version	Item No. XX for pin version	For vehicle internal dimension
Aluminium shoring beam 185015 XX	22185015 XX 20	2400-2480 mm
Aluminium shoring beam 185020 XX	22185020 XX 20	2440-2520 mm
Aluminium shoring beam 185025 XX	22185025 XX 20	2500-2580 mm

Customer-specific version	Item No. XX for pin version
Aluminium shoring beam 185080 XX-3000	22185080 XX 20

Please include the following data with your order  
 - Lashing track panel version  
 - free inside dimension between the tracks

### Options



PVC cover with property marking

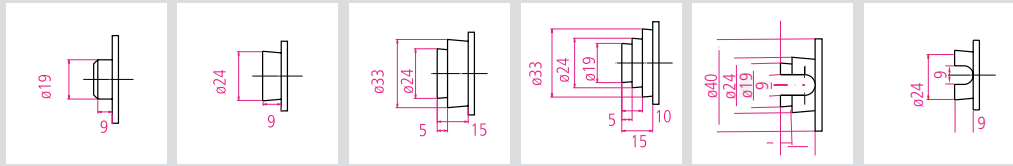
Additional property markings

Needle embossing

Powder coated versions

# WISTRA standard shoring beams

## End pin versions



19 mm pin,  
cylindrical  
**Version: 09**

24 mm pin,  
conical  
**Version: 24**

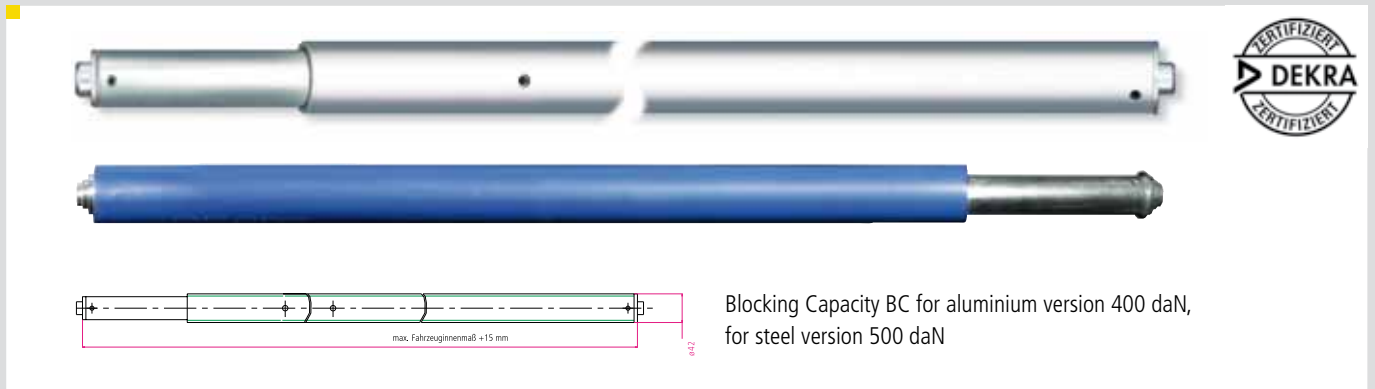
24 / 33 mm combi pin,  
conical  
**Version: 43**

19 / 24 / 33 mm combi  
pin, conical  
**Version: 44**

19 / 24 mm pin for key-  
hole track, cylindrical  
**Version: 45**

24 mm pin for key-hole  
track, conical  
**Version: 49**

Additional pin versions upon  
request



Blocking Capacity BC for aluminium version 400 daN,  
for steel version 500 daN

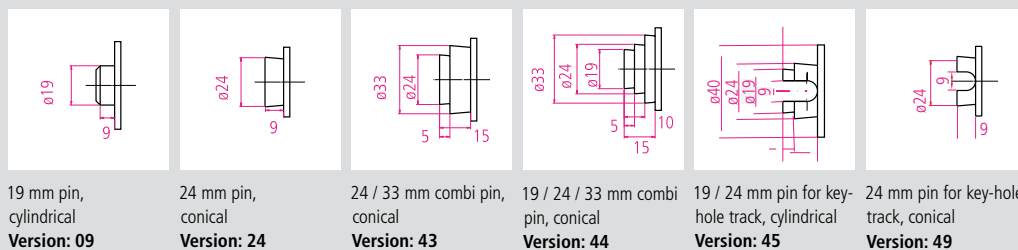
Version of rod lashing tracks is deviant

Standard version	Item No. <b>XX</b> for pin version	For vehicle internal dimension
Aluminium shoring beam 1813 XX	<b>22181300 XX 20</b>	2000-2080 mm
Steel shoring beam 1813 XX	<b>22181300 XX 12</b>	2000-2080 mm
Aluminium shoring beam 1818 XX	<b>22181800 XX 20</b>	2400-2480 mm
Steel shoring beam 1818 XX	<b>22181800 XX 12</b>	2400-2480 mm
Aluminium shoring beam 1817 XX	<b>22181700 XX 20</b>	2440-2520 mm
Steel shoring beam 1817 XX	<b>22181700 XX 12</b>	2440-2520 mm
Aluminium shoring beam 1819 XX	<b>22181900 XX 20</b>	2500-2580 mm
Steel shoring beam 1819 XX	<b>22181900 XX 12</b>	2500-2580 mm

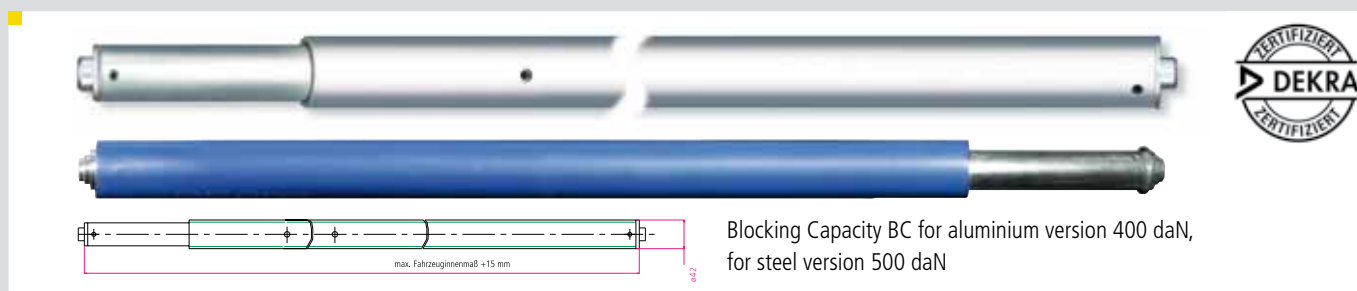
Standard versions with PVC Cover	Item No. <b>XX</b> for pin version	For vehicle internal dimension
Aluminium shoring beam 1813 XX PVC	<b>22181300 XX 20Ü</b>	2000-2080 mm
Steel shoring beam 1813 XX PVC	<b>22181300 XX 12Ü</b>	2000-2080 mm
Aluminium shoring beam 1818 XX PVC	<b>22181800 XX 20Ü</b>	2400-2480 mm
Steel shoring beam 1818 XX PVC	<b>22181800 XX 12Ü</b>	2400-2480 mm
Aluminium shoring beam 1817 XX PVC	<b>22181700 XX 20Ü</b>	2440-2520 mm
Steel shoring beam 1817 XX PVC	<b>22181700 XX 12Ü</b>	2440-2520 mm
Aluminium shoring beam 1819 XX PVC	<b>22181900 XX 20Ü</b>	2500-2580 mm
Steel shoring beam 1819 XX PVC	<b>22181900 XX 12Ü</b>	2500-2580 mm

# WISTRA shoring beams with special lengths

## End pin versions



Additional pin versions upon request



Blocking Capacity BC for aluminium version 400 daN, for steel version 500 daN

Version of rod lashing tracks is deviant

Versions to shorten on the stay pipe side with included pin, telescope side already mounted	Item No.
Aluminium shoring beam 1898 XX-2380 mm carrier	<b>221898 XX 20-2380</b>
Steel shoring beam 1898 XX-2380 mm carrier	<b>221898 XX 12-2380</b>
Aluminium shoring beam 1898 XX-3000 mm carrier	<b>See version 1850</b>
Steel shoring beam 1898 XX-3000 mm carrier	<b>221898 XX 12-3000</b>

Versions with PVC cover for shortening on the stay pipe end with included pin, telescope side already mounted	Item No.
Aluminium shoring beam 1898 XX-2380 mm carrier PVC	<b>221898 XX 20Ü-2380</b>
Steel shoring beam 1898 XX-2380 mm carrier PVC	<b>221898 XX 12Ü-2380</b>
Aluminium shoring beam 1898 XX-3000 mm carrier PVC	<b>upon request</b>
1898 XX-3000 mm carrier PVC	<b>221898 XX 12Ü-3000</b>

Customer-specific version	Item No. <b>XX</b> for pin version	Please include the following data with your order
Aluminium shoring beam 1899 XX-max. 2380 mm carrier	<b>221899 XX 20-2380</b>	- Lashing track panel version
Steel shoring beam 1899 XX-max. 2380 mm carrier	<b>221899 XX 12-2380</b>	- free inside dimension between the tracks
Aluminium shoring beam 1899 XX-max. 3000 mm carrier	<b>See version 1850</b>	
Steel shoring beam 1899 XX-max. 3000 mm carrier	<b>221899 XX 12-3000</b>	

Customer-specific version with PVC cover	Item No. <b>XX</b> for pin version	Please include the following data with your order
Aluminium shoring beam 1899 XX-max. 2380 mm carrier PVC	<b>221899 XX 20Ü-2380</b>	- Lashing track panel version
Steel shoring beam 1899 XX-max. 2380 mm carrier PVC	<b>221899 XX 12Ü-2380</b>	- free inside dimension between the tracks
Aluminium shoring beam 1899 XX-max. 3000 mm carrier PVC	<b>See version 1850 - upon request</b>	
Steel shoring beam 1899 XX-max. 3000 mm carrier PVC	<b>221899 XX 12Ü-3000</b>	

## Options



PVC cover with property marking



Additional property markings



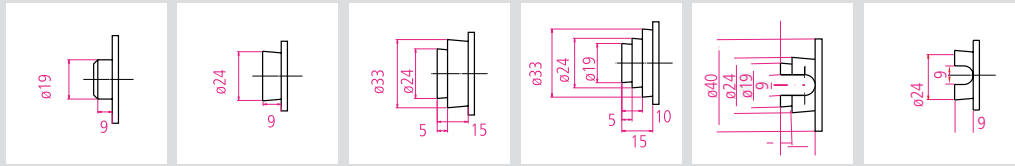
Needle embossing



Powder coated versions

# WISTRA shoring beams with special lengths for transporter

## End pin versions



19 mm pin, cylindrical  
**Version: 09**

24 mm pin, conical  
**Version: 24**

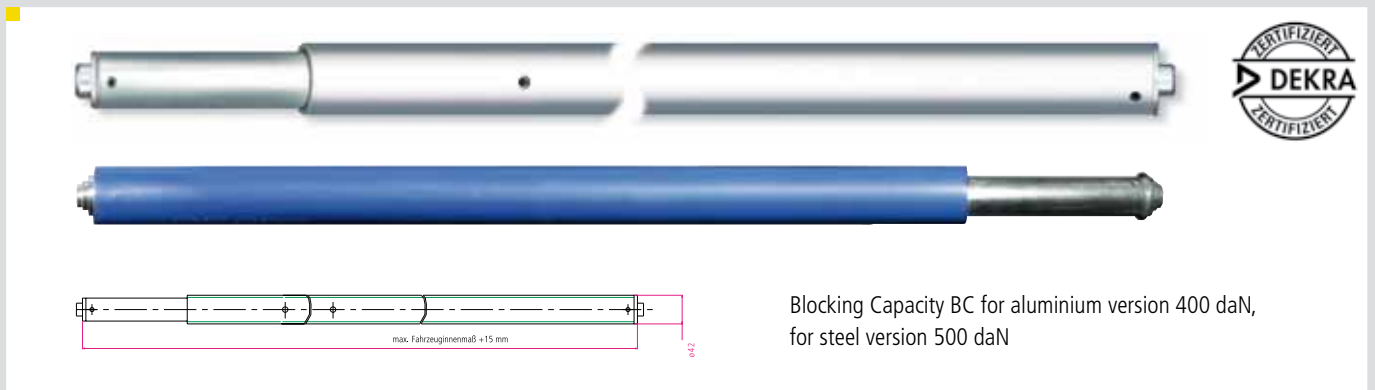
24 / 33 mm combi pin, conical  
**Version: 43**

19 / 24 / 33 mm combi pin, conical  
**Version: 44**

19 / 24 mm pin for key-hole track, cylindrical  
**Version: 45**

24 mm pin for key-hole track, conical  
**Version: 49**

Additional pin versions upon request



Blocking Capacity BC for aluminium version 400 daN, for steel version 500 daN

Version of rod lashing tracks is deviant

Customer-specific version	Item No. <b>XX for pin version</b>
Aluminium shoring beam 1888 XX-max. 2380 mm carrier	<b>221888 XX 20</b>
Steel shoring beam 1888 XX-max. 2380 mm carrier	<b>221888 XX 12</b>

Please include the following data with your order  
- Lashing track panel version  
- free inside dimension between the tracks

Customer-specific version with PVC cover	Item No. <b>XX for pin version</b>
Aluminium shoring beam 1888 XX-max. 2380 mm carrier PVC	<b>221888 XX 20Ü</b>
1888 XX-max. 2380 mm carrier PVC	<b>221888 XX 12U</b>

Please include the following data with your order  
- Lashing track panel version  
- free inside dimension between the tracks

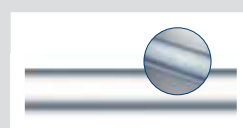
## Options



PVC cover with property marking



Additional property markings



Needle embossing

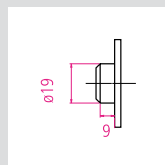


Powder coated versions

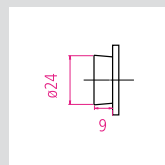


## WISTRA standard shoring beams, adjustable

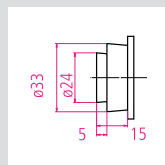
### End pin versions



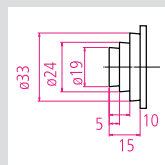
19 mm pin,  
cylindrical  
**Version: 09**



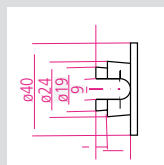
24 mm pin,  
conical  
**Version: 24**



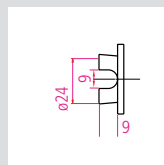
24 / 33 mm combi pin,  
conical  
**Version: 43**



19 / 24 / 33 mm combi  
pin, conical  
**Version: 44**



19 / 24 mm pin for key-  
hole track, cylindrical  
**Version: 45**



24 mm pin for key-hole  
track, conical  
**Version: 49**

Additional pin versions upon  
request



Blocking Capacity BC for aluminium version  
400 daN, for steel version 500 daN

Version of rod lashing tracks is deviant

Standard version	Item No. <b>XX</b> for pin version	For vehicle internal dimension
Aluminium shoring beam 1808 XX	<b>22180800 XX 20</b>	2220 – 2650 mm
Steel shoring beam 1811 XX	<b>22181100 XX 12</b>	2220 – 2650 mm

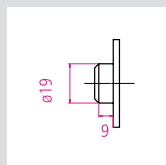
  

Standard versions with PVC cover	Item No. <b>XX</b> for pin version	For vehicle internal dimension
Aluminium shoring beam 1808 XX PVC	<b>22180800 XX 20Ü</b>	2220 – 2650 mm
Steel shoring beam 1811 XX PVC	<b>22181100 XX 12Ü</b>	2220 – 2650 mm

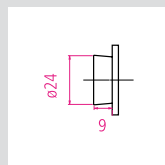


## WISTRA shoring beams, adjustable with special lengths

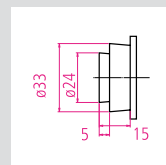
### End pin versions



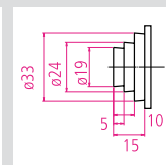
19 mm pin,  
cylindrical  
**Version: 09**



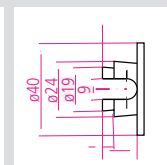
24 mm pin,  
conical  
**Version: 24**



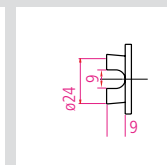
24 / 33 mm combi pin,  
conical  
**Version: 43**



19 / 24 / 33 mm combi  
pin, conical  
**Version: 44**



19 / 24 mm pin for key-  
hole track, cylindrical  
**Version: 45**



24 mm pin for key-hole  
track, conical  
**Version: 49**

Additional pin versions upon  
request



Blocking Capacity BC for aluminium version 400 daN,  
for steel version 500 daN to free inside dimension 2,650 mm

Customer-specific version	Item No. <b>XX</b> for pin version	Maximum expanded length
Aluminium shoring beam 180899 XX	<b>22180899 XX 20</b>	up to vehicle internal dimension max. 2650 mm
Aluminium shoring beam 180899 XX-3000	<b>upon request</b>	for longer versions
Steel shoring beam 181199 XX	<b>22181199 XX 12</b>	up to vehicle internal dimension max. 2650 mm
Steel shoring beam 181199 XX-3000	<b>upon request</b>	for longer versions

Please include the  
following data with  
your order

- Lashing track panel version
- free inside dimension between from - to

Customer-specific version with PVC cover	Item No. <b>XX</b> for pin version	Maximum expanded length
Aluminium shoring beam 180899 XX PVC	<b>22180899 XX 20Ü</b>	up to vehicle internal dimension max. 2650 mm
Aluminium shoring beam 180899 XX-3000	<b>upon request</b>	for longer versions
Steel shoring beam 181199 XX PVC	<b>22181199 XX 12Ü</b>	up to vehicle internal dimension max. 2650 mm
Steel shoring beam 181199 XX-3000 PVC	<b>upon request</b>	for longer versions

Please include the  
following data with  
your order

- Lashing track panel version
- free inside dimension between from - to

### Options



PVC cover with property  
marking



Additional property markings



Needle embossing

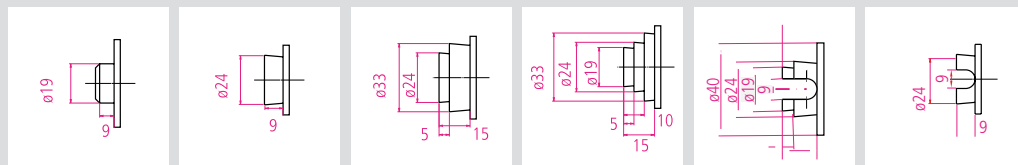


Powder coated versions



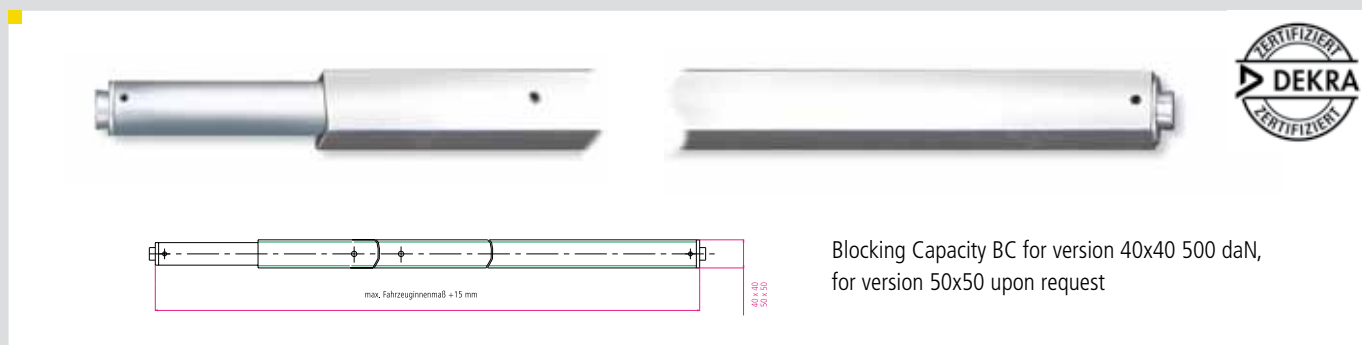
# WISTRA standard square shoring beams

## End pin versions



19 mm pin, cylindrical **Version: 09**    24 mm pin, conical **Version: 24**    24 / 33 mm combi pin, conical **Version: 43**    19 / 24 / 33 mm combi pin, conical **Version: 44**    19 / 24 mm pin for key-hole track, cylindrical **Version: 45**    24 mm pin for key-hole track, conical **Version: 49**

Additional pin versions upon request



Blocking Capacity BC for version 40x40 500 daN, for version 50x50 upon request

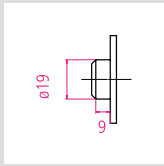
Version of rod lashing tracks is deviant

Standard version 40x40 mm	Item No. <b>XX</b> for pin version	For vehicle internal dimension
Steel shoring beam 1828 XX	<b>22182800 XX 12</b>	2400-2480 mm
Steel shoring beam 1827 XX	<b>22182700 XX 12</b>	2440-2520 mm
Steel shoring beam 1829 XX	<b>22182900 XX 12</b>	2500-2580 mm

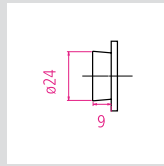
Standard version 50x50	Item No. <b>XX</b> for pin version	Please include the following data with your order - Lashing track panel version - free inside dimension between the tracks
Steel shoring beam 1852 XX	<b>upon request</b>	

# WISTRA standard square shoring beams, adjustable

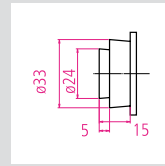
## End pin versions



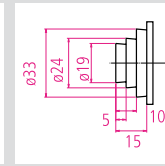
19 mm pin, cylindrical  
**Version: 09**



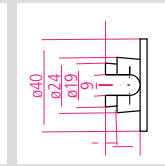
24 mm pin, conical  
**Version: 24**



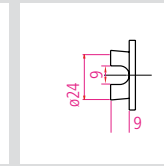
24 / 33 mm combi pin, conical  
**Version: 43**



19 / 24 / 33 mm combi pin, conical  
**Version: 44**



19 / 24 mm pin for key-hole track, cylindrical  
**Version: 45**



24 mm pin for key-hole track, conical  
**Version: 49**

Additional pin versions upon request



Blocking Capacity BC 500 daN

Standard version 40x40 mm	Item No. <b>XX</b> for pin version	For vehicle internal dimension
Steel shoring beam 1812 XX	<b>22181200 XX 12</b>	2220 – 2650 mm

## Options



Needle embossing



Powder coated versions



customer-specialized versions upon request

## WISTRA shoring beam system lock

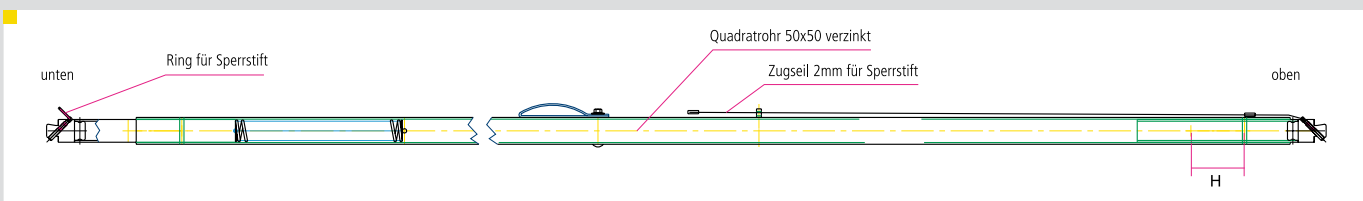


WISTRA shoring beam lock is a form-fit system with pin latching in the lashing tracks.

This system was primarily developed for vertical form-fit securing with hatches.

Advantages:

- quick handling due to easy insertion and securing
- secure attachment to the lashing tracks
- Spring pressure only for easier handling when applying
- Steel profile 50 x 50 mm, galvanised
- Latching end pins on both sides with 24 mm diameter
- High blocking capacity BC 1,000 daN at constant line load
- Strong individuality for customer-specific requirements



Designation	Unit of quantity	Item No.
WISTRA shoring beam system lock	Pieces	<b>upon request</b>
Lashing tracks 3004 flat	Pieces	<b>upon request</b>
Lashing tracks 3004 U-profile	Pieces	<b>upon request</b>

## WISTRA shoring beam system Power Stop



The use of transport means with a high payload, especially for combined transports, places extremely high demands on load securing devices.

The WISTRA POWER Stop shoring beam system passes the acid test of standing paper reels with flying colours.

The tandem hole track system and the dual pins allow the square tubes to be turned by 30°. In this way contact with the fragile cargo is over a large area and damage by excessive edge pressure is prevented. VDI regulation 2700, Sheet 9, prescribes the use of anti-slip mats for the transport of of paper reels.

### Advantages:

- quick handling due to easy insertion and securing
- Steel profile 50 x 90 mm, galvanised
- Dual end pins on both sides with 24 mm diameter
- Very high blocking capacity BC 2,500 daN at constant line load
- Strong individuality for customer-specific requirements

Designation	Unit of quantity	Item No.
WISTRA shoring beam system POWER Stop	Pieces	<b>upon request</b>
Lashing tracks 3004 53 flat	Pieces	<b>upon request</b>
Lashing tracks 3004 53 U-profile	Pieces	<b>upon request</b>

## WISTRA shoring beam system Power Stop, guided by rolls



Parking position

The Power Stop shoring beam - with guiding rolls - was developed specifically for the combined "road-rail" traffic, which gains more and more importance in the domestic and European traffic. The system can be used for swap bodies and other boxes.

The special solution consists of vertically latched shoring beams, which are guided in running rails with rollers.

This ensures easy handling. Unintentional removal or theft is also prevented.

Positioning is accomplished by means of hole tracks in the floor and the ceiling.

Up to four Power Stops - roller guided - can be used in a standard swap body.

Due to its rugged construction, this new solution is also suitable for securing WISTRA Safeguard load securing nets.

The Power Stop shoring beam can be lifted up and locked under the running rail.

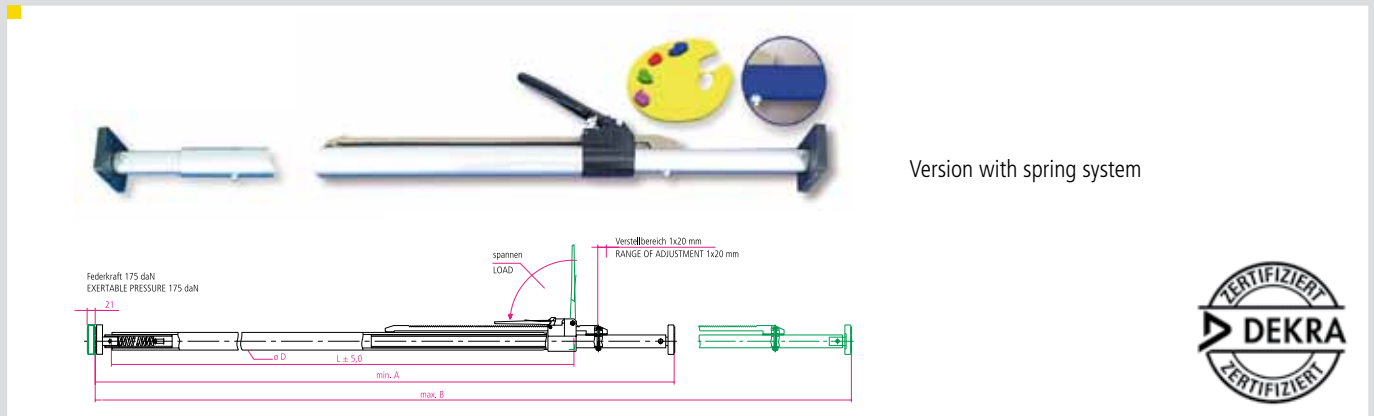
Designation	Unit of quantity	Item No.
WISTRA shoring beam system Power Stop, guided by rolls Material profile steel	Pieces	<b>upon request</b>
WISTRA shoring beam system Power Stop, guided by rolls Material profile aluminium	Pieces	<b>upon request</b>
Lashing tracks 3004 flat pieces	Pieces	<b>upon request</b>
Lashing tracks 3004 50 U-profile	Pieces	<b>upon request</b>

### Advantages:

- quick handling due to roller guiding
- optional galvanised steel profile or aluminium profile
- Dual end pins on both sides with 24 mm diameter
- Very high blocking capacity BC 2,500 daN at constant line load
- Strong individuality for customer-specific requirements

# Cargo bar

## WISTRA aluminium cargo bar

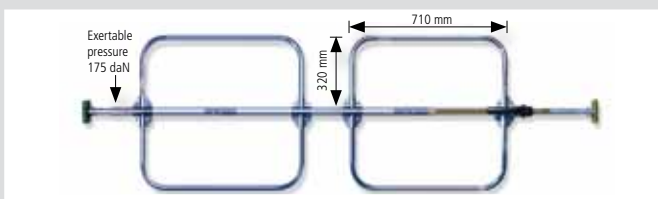


Version with spring system



Standard versions 38 mm	Item No.	Application range	Weight	Blocking capacity *)
Cargo bar 1867	<b>2218670003</b>	1,300 - 1,670 mm	3.1 kg	up to 150 daN
Cargo bar 1867	<b>2218670004</b>	1,680 - 2,050 mm	3.5 kg	
Cargo bar 1867	<b>221867010020TW</b>	2,260 – 2,630 mm	4.2 kg	

Standard versions 42 mm	Item No.	Application range	Weight	Blocking capacity *)
Cargo bar 1843	<b>2218430003</b>	1,300 - 1,670 mm	4.3 kg	up to 150 daN
Cargo bar 1843	<b>2218430004</b>	1,680 - 2,050 mm	4.4 kg	
Cargo bar 1842	<b>221842010020TW</b>	2,100 – 2,470 mm	4.6 kg	
Cargo bar 1843	<b>221843010020TW</b>	2,350 – 2,720 mm	4.7 kg	
Cargo bar 1844	<b>221844010020TW</b>	2500 - 2870 mm	4.8 kg	
Cargo bar 1845	<b>221845010020TW</b>	2,650 - 3,020 mm	4.9 kg	



Spares	Item No.
Housing with tensioner and toothed rack for version 38 mm	<b>221867991000</b>
for version 42 mm	<b>221867991000TW</b>
Rubber pad	<b>221867990300</b>



Accessories	Item No.
Hoop set	
for version 38 mm	<b>226700000012</b>
for version 42 mm	<b>224300000012</b>

### Options



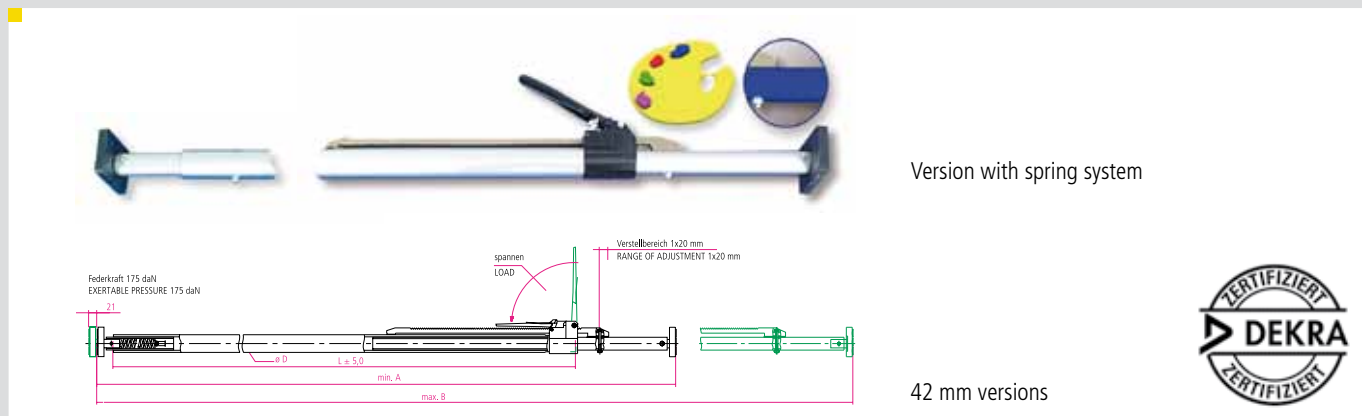
Needle embossing



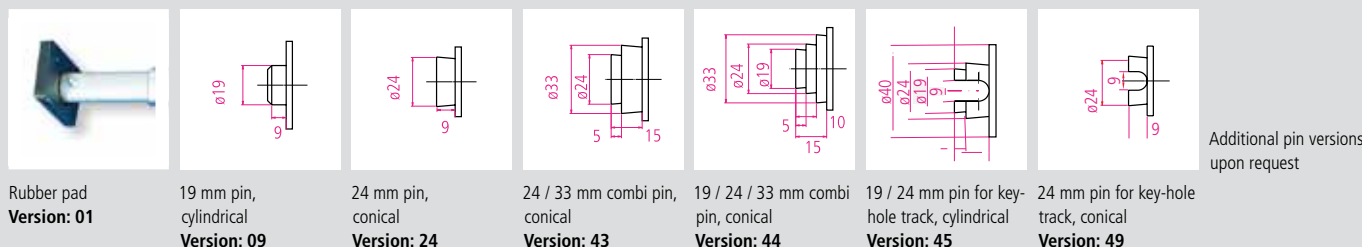
Powder coated versions

\*) Blocking capacity depends on the rigidity of the vehicle body and the anti slip properties of the base

# WISTRA aluminium cargo bar



## End pin versions



When ordering, please note the positions of the end pins: the first one is on the stay pipe / the second one on the telescope tube!

Standard versions 38 mm	Item No.	Application range	Weight	Blocking capacity *)
Cargo bar 1867 rubber pad/pin XX	<b>22186701 XX 20</b>	2260 – 2630 mm	4,2 kg	up to 150 daN
Cargo bar 1867 pin XX/rubber pad	<b>221867 XX 0120</b>		4,2 kg	
Cargo bar 1867 pin XX/pin XX	<b>221867 XX XX 20</b>		4,2 kg	

Standardausführungen 42 mm	Item No.	Application range	Weight	Blocking capacity *)
Cargo bar 1842 rubber pad/pin XX	<b>22184201 XX 20</b>	2100 – 2470 mm	4,6 kg	up to 150 daN
Cargo bar 1842 pin XX/rubber pad	<b>221842 XX 0120</b>		4,6 kg	
Cargo bar 1842 pin XX/pin XX	<b>221842 XX XX 20</b>		4,6 kg	
Cargo bar 1843 rubber pad/pin XX	<b>22184301 XX 20</b>	2350 – 2720 mm	4,7 kg	
Cargo bar 1843 pin XX/rubber pad	<b>221843 XX 0120</b>		4,7 kg	
Cargo bar 1843 pin XX/pin XX	<b>221843 XX XX 20</b>		4,7 kg	
Cargo bar 1844 rubber pad/pin XX	<b>22184401 XX 20</b>	2500 – 2870 mm	4,8 kg	
Cargo bar 1844 pin XX/rubber pad	<b>221844 XX 0120</b>		4,8 kg	
Cargo bar 1844 pin XX/pin XX	<b>221844 XX XX 20</b>		4,8 kg	
Cargo bar 1845 rubber pad/pin XX	<b>22184501 XX 20</b>	2650 – 3020 mm	4,9 kg	
Cargo bar 1845 pin XX/rubber pad	<b>221845 XX 0120</b>		4,9 kg	
Cargo bar 1845 pin XX/pin XX	<b>221845 XX XX 20</b>		4,9 kg	

## Options



Needle embossing

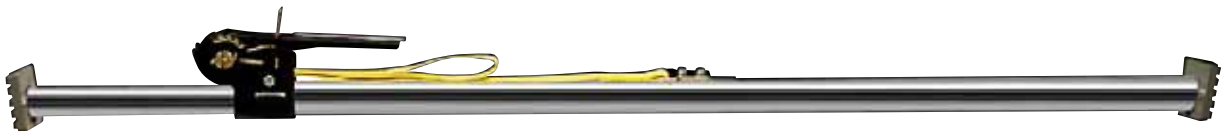


Powder coated versions

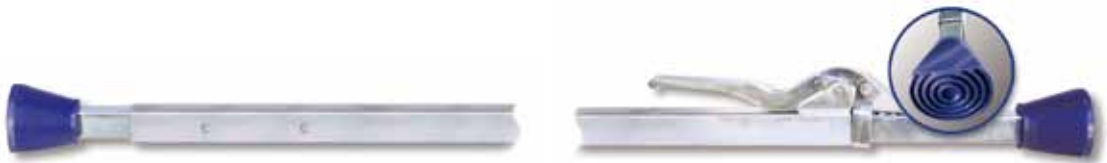
\*) Blocking capacity depends on the rigidity of the vehicle body and the anti slip properties of the base



## WISTRA steel cargo bar



Version	Item No.	Application range	Weight
Cargo bar 1868, infinitely variable	<b>2218680</b>	2,260 - 2,650 mm	4.85 kg



Version	Item No.	Application range	Weight
Cargo bar 1840	<b>22184000012</b>	1,900 - 2,800 mm	7.0 kg



Version	Item No.	Application range	Weight
Cargo bar 1938	<b>221938010012</b>	2,300 - 2,900 mm	6.6 kg



Version	Item No.	Application range	Weight
Cargo bar SmartBar™	<b>220550100012</b>	1,220 - 2,740 mm	7.0 kg



Version	Item No.	Application range	Weight
Cargo bar BabyBar™	<b>220552250012</b>	1,220-1,980 mm	2.0 kg

# Decking beam

## WISTRA aluminium decking beam 1839 HQ

End pin versions

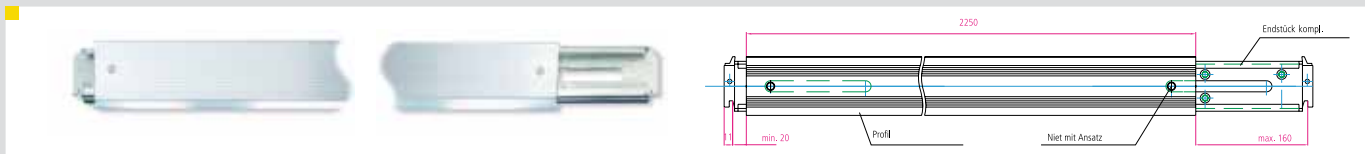


Complete extension of the end pieces possible on both ends

On one side end piece fixed, on the other side complete extension possible

On one side end piece fixed, on the other side complete extension possible with longitudinal latching

for key hole: Complete extension of the end pieces possible on both ends



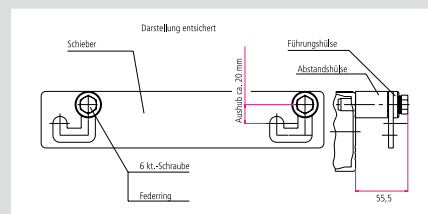
Version with stay pipe length 2,250 mm	Item No.	Application range	Blocking capacity / bearing capacity *)
Decking beam 1839 Type A	<b>22183900-2250</b>	2,310-2,530 mm	1,100/1,300 daN
Decking beam 1839 Type B	<b>22183901-2250</b>	2,310-2,400 mm	1,100/1,300 daN
Decking beam 1839 Type C	<b>22183902-2250</b>	2,310-2,400 mm	1,100/1,300 daN
Decking beam 1839 Type AS	<b>22183930-2250</b>	2,310-2,530 mm	1,100/1,300 daN

Version with stay pipe length 2,350 mm	Item No.	Application range	Blocking capacity / bearing capacity *)
Decking beam 1839 Type A	<b>22183900-2350</b>	2,410 - 2,630 mm	1,100/1,300 daN
Decking beam 1839 Type B	<b>22183901-2350</b>	2,410 - 2,500 mm	1,100/1,300 daN
Decking beam 1839 Type C	<b>22183902-2350</b>	2,410 - 2,500 mm	1,100/1,300 daN
Decking beam 1839 Type AS	<b>22183930-2350</b>	2,410 - 2,630 mm	1,100/1,300 daN

Palette for decking beams and sliding decking beams

Double storey loading systems allow loading of pallets on the 2<sup>nd</sup> level for non-stackable load units. The decking beam is thereby used as support and securing of the load units. Under certain circumstances only one decking beam may be possible in the vicinity of the door due to space availability. The WISTRA palette securing on the decking beam is a cost-effective and safe

option of preventing sliding of load units during braking and accelerating.



Version with stay pipe length 2,250 mm and three mounted safety features for pallets	Item No.	Application range	Blocking capacity / bearing capacity *)
Decking beam 1839 Type B - PL3	<b>22183901-2250-3</b>	2,310-2,400 mm	1,300/1,000 daN
Decking beam 1839 Type C - PL3	<b>22183902-2250-3</b>	2,310-2,400 mm	1,300/1,000 daN
Decking beam 1839 Type AS - PL3	<b>22183930-2250-3</b>	2,310-2,530 mm	1,300/1,000 daN

Version with stay pipe length 2,350 mm and three mounted safety features for pallets	Item No.	Application range	Blocking capacity / bearing capacity *)
Decking beam 1839 Type B - PL3	<b>22183901-2350-3</b>	2,410 - 2,500 mm	1,300/1,000 daN
Decking beam 1839 Type C - PL3	<b>22183902-2350-3</b>	2,410 - 2,500 mm	1,300/1,000 daN
Decking beam 1839 Type AS - PL3	<b>22183930-2350-3</b>	2,410 - 2,630 mm	1,300/1,000 daN

# WISTRA aluminium decking beam 1838

End pin versions

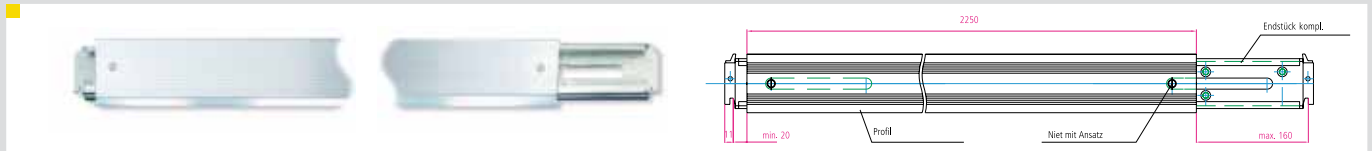


Complete extension of the end pieces possible on both ends

On one side end piece fixed, on the other side complete extension possible

On one side end piece fixed, on the other side complete extension possible with longitudinal latching

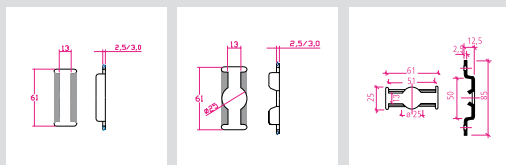
for key hole: Complete extension of the end pieces possible on both ends



Version with stay pipe length 2,250 mm	Item No.	Application range	Blocking capacity / bearing capacity *)
Decking beam 1838 Type A	<b>22183800-2250</b>	2,310-2,530 mm	1,000/1,000 daN
Decking beam 1838 Type B	<b>22183801-2250</b>	2,310-2,400 mm	1,000/1,000 daN
Decking beam 1838 Type C	<b>22183802-2250</b>	2,310-2,400 mm	1,000/1,000 daN
Decking beam 1838 Type AS	<b>22183830-2250</b>	2,310-2,530 mm	1,000/1,000 daN

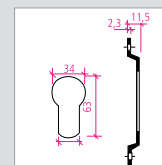
\*) Blocking capacities up to application range maximum 2,500 mm

Decking beam Type A, B, C suitable for:



further options

Decking beam Type AS suitable for:



further options

## WIS repair set for decking beam 221839/221838 Type A/B

consisting of:

- 1 x end piece for decking beam
- 1 x sleeve nut
- 2 x head screw I-6Kt.
- Unit of quantity set

**Item No. 22183905**

Options for the shown shoring beams



Engraving



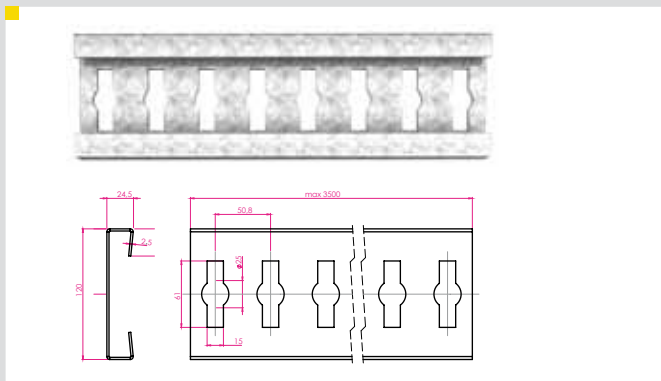
Needle embossing



Powder coated versions

# Longitudinal Bars

## Longitudinal Bars



### Item No. 22 6030 09 XXXX

Application: together with clamp keeper

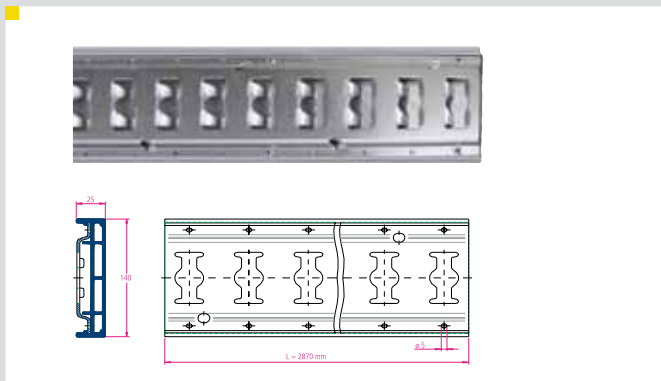
Material: steel, zinc plated

Suitability: longitudinal tracks with decking beams for form-fit load securing and lashings with end-fitting 826 and 822

Standard length: 3500 mm

Important: when placing the order please indicate the required length

## Longitudinal Bars



### Item No. 22 4030 09 XXXX

Application: together with clamp keeper

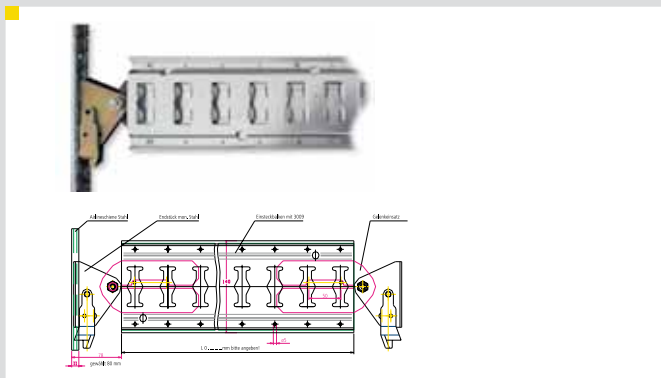
Material: Aluminium profile with anchor-combi-track 3009 steel, zinc plated – other lashing tracks as option

Suitability: longitudinal tracks with decking beams for form-fit load securing and lashings with end-fitting 826 and 822

Standard length: on request

Important: when placing the order please indicate the required length

## Longitudinal Bars with slide



### Item No. 22 4130 09 XXXX

Application: together with airline steel track 21 5001 312012

Material: Aluminium profile with anchor-combi-track 3009 steel, zinc plated – other lashing tracks as option

Suitability: as longitudinal bars adjustable in height with decking beams for form-fit load securing and lashings with end-fitting 826 and 822

Standard length: on request

Important: when placing the order please indicate the required length and the internal dimension between beads

# Parting wall locks

## WISTRA aluminium parting wall lock 7452



Version	Item No.	Application range	Weight	Blocking capacity *)
Parting wall lock with cast end pieces	<b>237452900020</b>	2,400-2,700 mm	10.0 kg	400 daN
Parting wall lock with cast end pieces, individually packed in box	<b>237452900020K</b>	2,400-2,700 mm	10.3 kg	400 daN
Parting wall lock with cast end pieces	<b>2374529-2100</b>	2,100-2,400 mm	9.1 kg	400 daN
Parting wall lock with cast end pieces	<b>2374529-1800</b>	1,800-2,100 mm	8.9 kg	400 daN

Accessories	Item No.
Insert sleeve profile	<b>237459900440</b>

## WISTRA Aluminium parting wall lock 7453



Version	Item No.	Application range	Weight	Blocking capacity *)
parting wall lock	<b>237453000020</b>	2400-2700 mm	7,7 kg	400 daN

\*) Blocking capacity: BC 400 daN for constant surface loading to 2,700mm application range

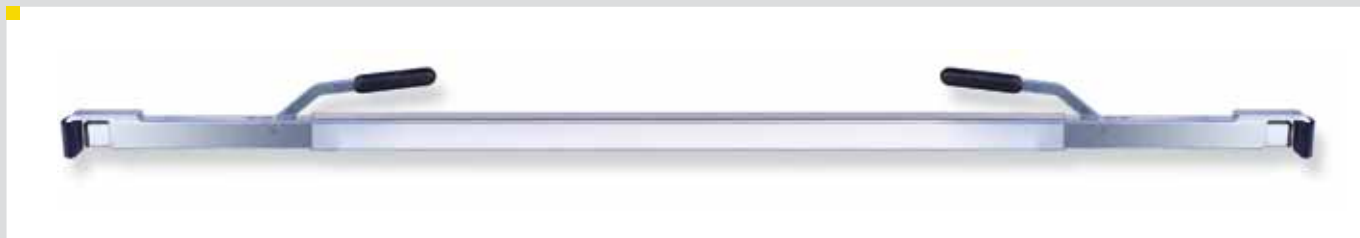
### Options



Needle embossing

## WISTRA steel parting wall lock

### Parting wall lock S4



Version	Item No.	Application range	Weight
Square parting wall lock S4	<b>237430000012</b>	1,920-2,720 mm	7.5 kg

### Parting wall lock CurtainBar™



Version	Item No.	Application range	Weight
CurtainBar™	<b>237552000020</b>	1,140 - 2,720 mm	8.0 kg

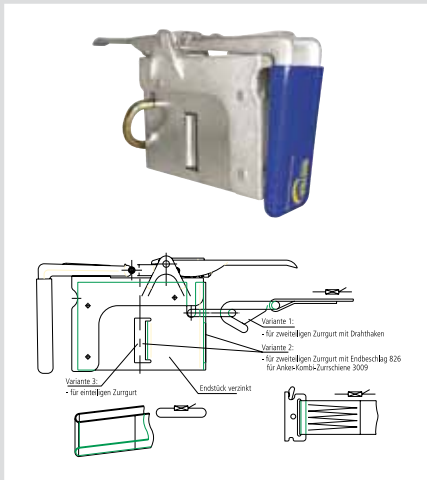
### Options



Needle embossing

## WISTRA parting wall options

### Vario end piece



Clamping range 21 - 36 mm

LC up to a maximum of 2,000 daN in straight tension

Designation	Unit of quantity	Weight	Item No.
Vario end piece	Pieces	3.0 kg	<b>23742000012</b>



Lashing strap with anchor combi end-fitting



Lashing strap with pointed hook



Single-part lashing strap

### BoardClamp™

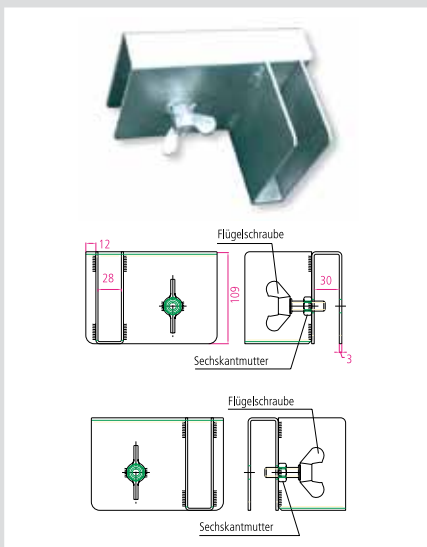


Clamping range 8 - 54 mm

LC up to 500 daN

Designation	Unit of quantity	Item No.
BoardClamp WTR 1000 0,5+3,0 green	Pieces	<b>237552001</b>
BoardClamp WTR 1000 0,5+3,5 green	Pieces	<b>237552002</b>
BoardClamp WTR 1000 0,5+4,5 green	Pieces	<b>237552003</b>
BoardClamp WTR 1000 0,5+5,5 green	Pieces	<b>237552004</b>
BoardClamp WTR 1000 0,5+6,5 green	Pieces	<b>237552005</b>
BoardClamp WTR 1000 0,5+7,5 green	Pieces	<b>237552006</b>

### Clamp keepers



Steel, galvanised

Designation	Unit of quantity	Item No.
Clamp keeper - left	Pieces	<b>235001000012</b>
Clamp keeper - right	Pieces	<b>235000000012</b>

# WISTRA double storey systems

WISTRA sliding decking beams are manufactured from high strength aluminium profile 66 x 84 mm. Due to their high carrying capacity, sliding beams can be used both for rear load securing and for creating a second loading level.

The toothed profile surface offers secure standing of the loading unit. Sliding decking beams are manufactured with different end pieces, which are applied in connection with guiding tracks as double storey systems.

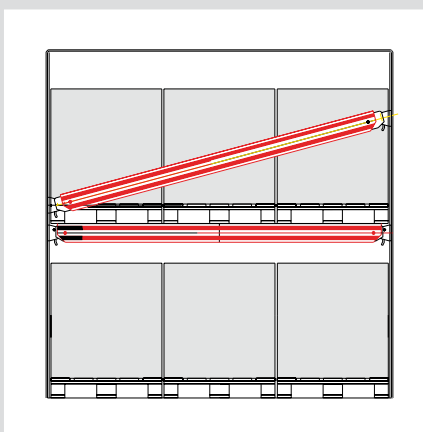
The rigidly mounted inserts allow a wide range of application in the free inside dimension due to their telescoping capability.



WISTRA double storey systems are manufactured in different versions and can be attached at variable heights.

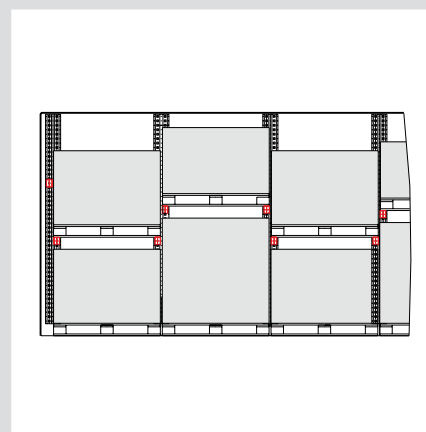
WISTRA sliding decking beams can be slid under the ceiling when they are not in use.

WISTRA pallet securing can additionally be mounted on the sliding decking beam. A pallet is easily pushed over the profile edge, so that the pallet is secured by form-fit in the longitudinal direction.



Rear view:

Use of sliding decking beams as double storey system and for rear load securing



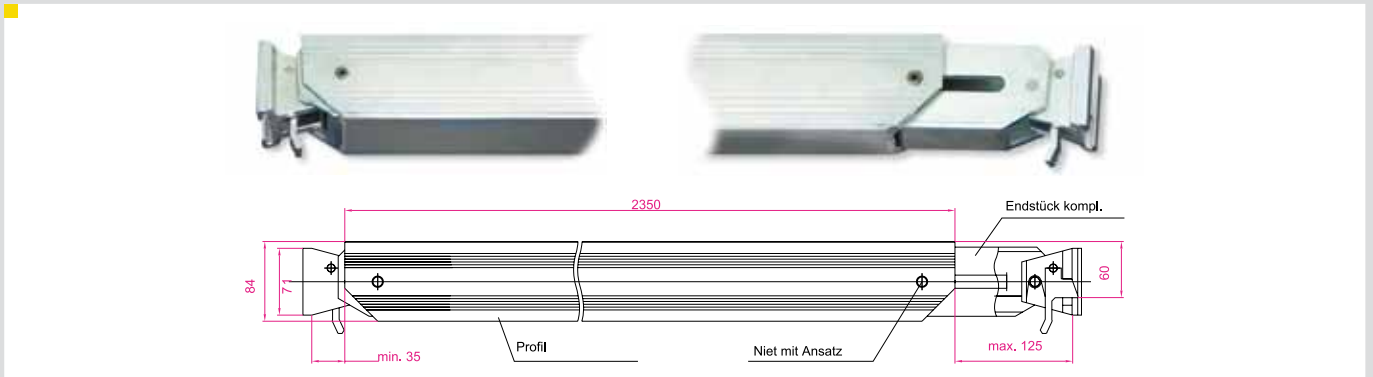
Side view:

Use of sliding decking beams as double storey system



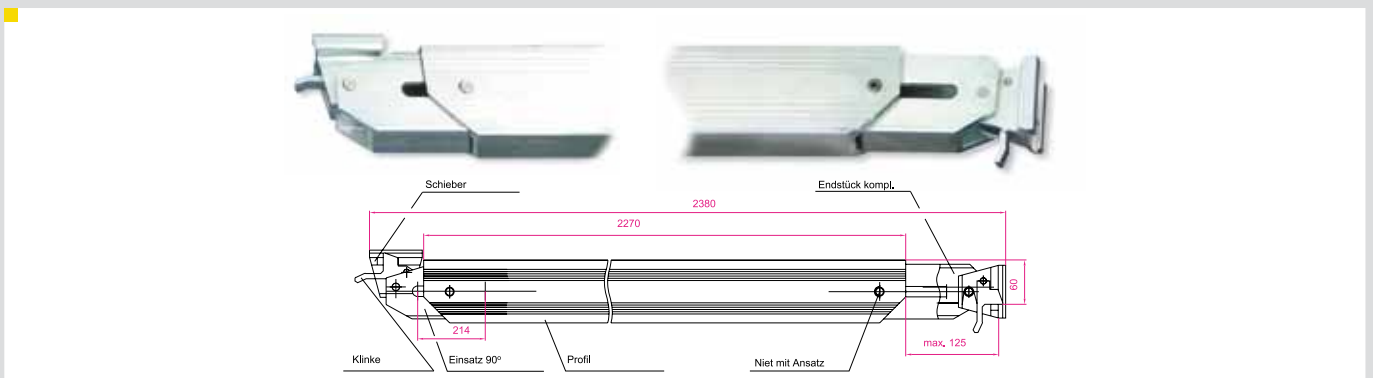
# WISTRA sliding decking beams

## Sliding decking beam 7007 (Guiding tracks 7002, 7003 + 7103)



Version	Item No.	Application range	Weight	Blocking capacity / bearing capacity *)
Sliding decking beam 7007	<b>227007000020</b>	2,450- approx. 2,530 mm	7.7 kg	1,000 daN / 1,000 daN
Sliding decking beam 7007 with 3-fold palette securing	<b>227007000020-PL3</b>	2,450- approx. 2,530 mm	10.7 kg	1,000 daN / 1,000 daN

## Sliding decking beam 7907 (Guiding tracks 7002, 7003 + 7103)



Version	Item No.	Application range	Weight	Blocking capacity / bearing capacity *)
Sliding decking beam 7907 One side with hinged slider up to 90° for ceiling track / park bracket	<b>227907000020</b>	2,450- approx. 2,675 mm	7.7 kg	1,000 daN / 1,000 daN
Sliding decking beam 7907 with 3-fold palette securing	<b>227907000020-PL3</b>	2,450- approx. 2,675 mm	10.7 kg	1,000 daN / 1,000 daN

\*) Blocking capacity / carrying capacity for constant surface loading

### Options for the shown shoring beams



Engraving



Needle embossing



Powder coated versions



PL3



Unlocking bar

## WISTRA guiding tracks for sliding decking beams 7007, 7907

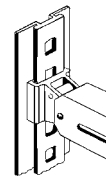
Guiding tracks for sliding decking beams are mainly used for a height adjustable double storey configuration. The mounted tracks have an installation height of 12 mm / 17 mm.

The distance between the lower edge of the grid hole to the roof should be 65 mm for optimal utilisation of the internal height.

A clearance of approximately 75 mm to the floor or the baseboard should be maintained or else the version with milling grooves should be selected to allow insertion of the tracks.



with milling grooves



without milling grooves

### Single aluminium guiding track 7002



Designation	Weight	length	Item No.
Single aluminium guiding track without milling groove	2.4 kg	1,960 mm	<b>227002000020</b>
Single aluminium guiding track with milling groove	2.4 kg	1,960 mm	<b>227002010020</b>

### Tandem aluminium guiding track 7002



Designation	Weight	length	Item No.
Tandem aluminium guiding track without milling groove	4.7 kg	1,960 mm	<b>227002040020</b>
Tandem aluminium guiding track with milling grooves	4.7 kg	1,960 mm	<b>227002050020</b>

### Single steel guiding track 7003



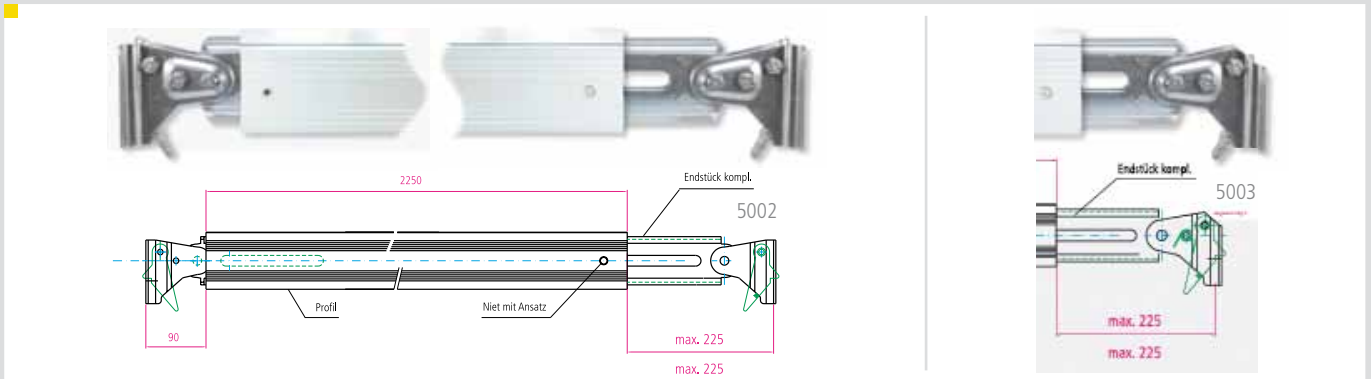
Designation	Weight	length	Item No.
Single steel guiding track without milling groove, primed	4.7 kg	2,500 mm	<b>227003010015</b>
Single steel guiding track with milling groove, primed	4.7 kg	2,500 mm	<b>227103010015</b>

### Tandem steel guiding track 7003



Designation	Weight	Length	Item No.
Tandem steel guiding track without milling groove, primed	9.9 kg	2,500 mm	<b>227003020015</b>
Tandem steel guiding track with milling groove, primed	9.9 kg	2,500 mm	<b>227103020015</b>

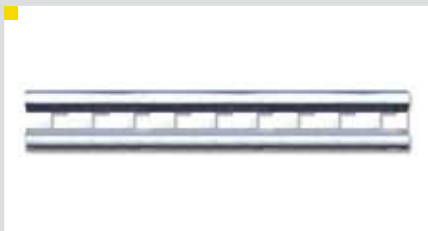
## Sliding decking beam 5002/5003



Version	Item No.	Application range / maximum extension	Weight	Blocking capacity / bearing capacity *)
Sliding decking beam 5002	<b>225002000012</b>	2,450- approx. 2,530 mm	10.9 kg	1,000 daN / 1,000 daN
Sliding decking beam 5002 with 3-fold palette securing	<b>225002000012-3</b>	2,450- approx. 2,530 mm	10.9 kg	1,000 daN / 1,000 daN
Sliding decking beam 5003 with bevelled slider	<b>225003000012</b>	2,450- approx. 2,530 mm	13.9 kg	1,000 daN / 1,000 daN
Sliding decking beam 5003 with bevelled slider and 3-fold palette securing	<b>225003000012-3</b>	2,450- approx. 2,530 mm	13.9 kg	1,000 daN / 1,000 daN

\*) Blocking capacity / carrying capacity for constant surface loading

### Single steel guiding track 7004



Designation	Weight	length	Item No.
Single steel guiding track without milling groove, primed	6.3 kg	2,480 mm	<b>upon request</b>
Single steel guiding track without milling groove, steel galvanised	6.3 kg	2,480 mm	<b>upon request</b>

### Tandem steel guiding track 7004



Designation	Weight	length	Item No.
Tandem steel guiding track without milling groove, primed	13.0 kg	2,480 mm	<b>upon request</b>
Tandem steel guiding track without milling groove, steel galvanised	13.0 kg	2,480 mm	<b>upon request</b>

### Options



Engraving



Needle embossing



Powder coated versions

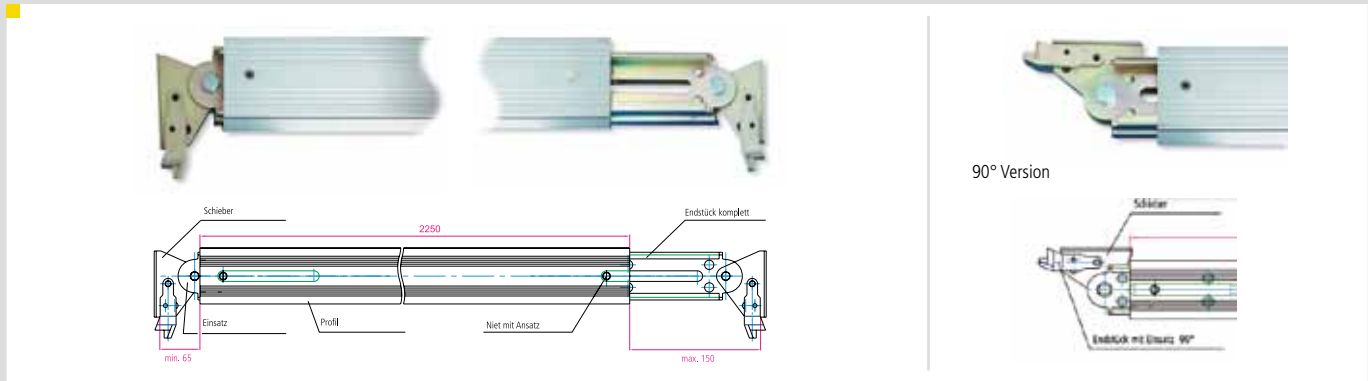


PL3



Unlocking bar

# Sliding decking beam 5001



Version	Item No.	Application range	Weight	Blocking capacity / bearing capacity *)
Sliding decking beam 5001	<b>225001000012</b>	2,450- approx. 2,530 mm	10.7 kg	1,000 daN / 1,000 daN
Sliding decking beam 5001 with 3-fold palette securing	<b>225001000012-3</b>	2,450- approx. 2,530 mm	13.7 kg	1,000 daN / 1,000 daN
Sliding decking beam 5001 One side with hinged slider up to 90° for ceiling track / park bracket	<b>225001009012</b>	2,450- approx. 2,530 mm	10.7 kg	1,000 daN / 1,000 daN
Sliding decking beam 5001 with 3-fold palette securing One side with hinged slider up to 90° for ceiling track / park bracket	<b>225001009012-3</b>	2,450- approx. 2,530 mm	13.7 kg	1,000 daN / 1,000 daN

\*) Blocking capacity / carrying capacity for constant surface loading

## Single steel airline lashing track 5001



Designation	Weight	length	Item No.
Single steel airline lashing track without milling groove, steel galvanised	13.0 kg	2,400 mm	<b>215001312012</b>

### Options



Engraving



Needle embossing



Powder coated versions

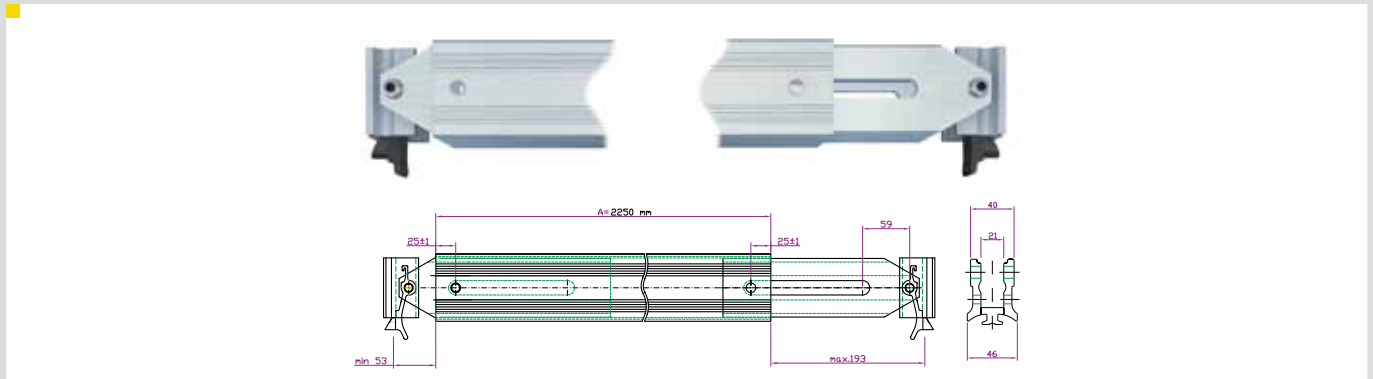


PL3



Unlocking bar

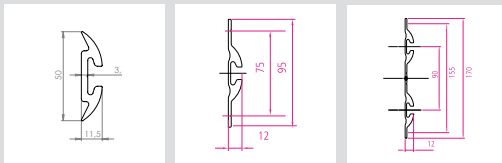
## Sliding decking beam 7104



Version with single fixing	Item No.	Application range	Weight	Blocking capacity / bearing capacity *)
Sliding decking beam 7104	<b>227104000020</b>	2,370- approx. 2,600 mm	7.3 kg	1,000 daN / 1,000 daN
Sliding decking beam 7104 with 3-fold palette securing	<b>227104000020-3</b>	2,370- approx. 2,600 mm	10.3 kg	1,000 daN / 1,000 daN
Sliding decking beam 7104	<b>227104001020</b>	2,470- approx. 2,700 mm	7.3 kg	1,000 daN / 1,000 daN
Sliding decking beam 7104 with 3-fold palette securing	<b>227104001020-3</b>	2,470- approx. 2,700 mm	10.3 kg	1,000 daN / 1,000 daN

\*) Blocking capacity / carrying capacity for constant surface loading

Suitable for half-round airline lashing track



5503

5000

5020

### Options



Engraving



Needle embossing



Powder coated versions

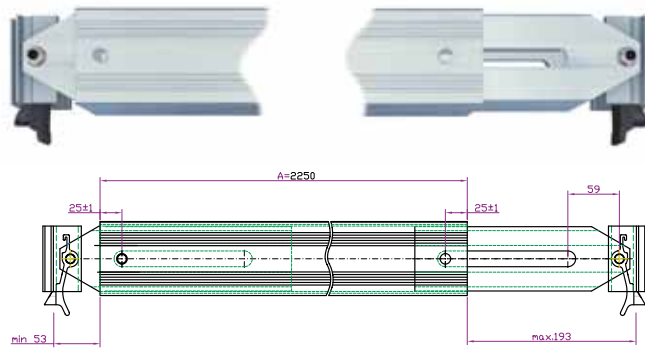


PL3



Unlocking bar

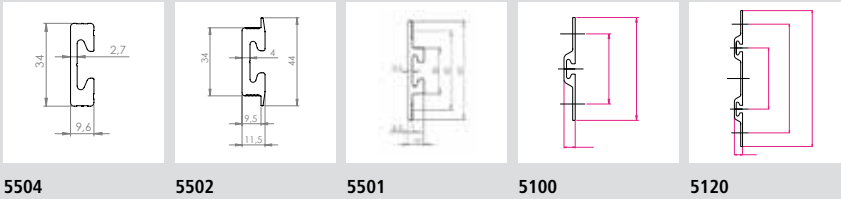
# Sliding decking beam 7105



Version with single fixing	Item No.	Application range	Weight	Blocking capacity / bearing capacity *)
Sliding decking beam 7105	<b>227105000020</b>	2,370- approx. 2,600 mm	7.3 kg	1,000 daN / 1,000 daN
Sliding decking beam 7105 with 3-fold palette securing	<b>227105000020-3</b>	2,370- approx. 2,600 mm	10.3 kg	1,000 daN / 1,000 daN
Sliding decking beam 7105	<b>227105001020</b>	2,470- approx. 2,700 mm	7.3 kg	1,000 daN / 1,000 daN
Sliding decking beam 7105 with 3-fold palette securing	<b>227105001020-3</b>	2,470- approx. 2,700 mm	10.3 kg	1,000 daN / 1,000 daN

\*) Blocking capacity / carrying capacity for constant surface loading

Suitable for flat airline lashing track



## Options



Engraving



Needle embossing



Powder coated versions



PL3



Unlocking bar

# WISTRA transport garment rails



The garment rails are subjected to load carrying tests at regular intervals in the own test facilities.

In this way it is ensured that the WISTRA garment rails distinguish themselves with high practical value characterised.

WISTRA garment rails made of high strength steel are extremely light with high carrying capacity. Carrying capacity of up to 400 kg for constant line load.

The weight of the light version of 7 kg could be reduced by 16% through the use of a patented end piece.

Thereby the new garment rail KST L6 has a weight of only 6 kg with the same carrying capacity.

The 35 mm stay pipe made of high strength special steel is chrome plated and offers optimal utilisation of the inside width of the vehicle body.

The fixing axle 15 x 15 mm is fixed by 2 Velcro strips.

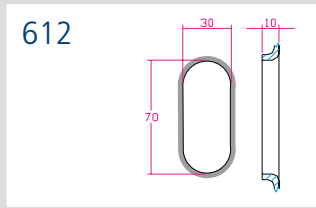
## Assembly in the standard version

- Chrome plated stay pipe - length 2,370 mm other dimensions upon request
- Aluminium fixing axle black powder coated – 15x15 mm other dimensions upon request
- 2 pieces Velcro strip other quantities upon request
- End pieces and spring function, matching end piece / transport means

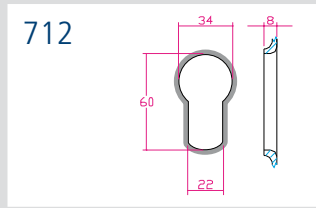
## Option

Fixing axle covered with plastic spiral hose prevents sideways displacement of the hangers.

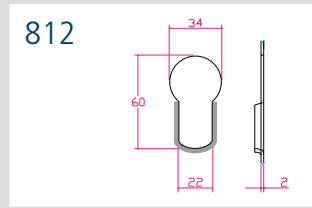
## Lashing tracks and perforated plate forms



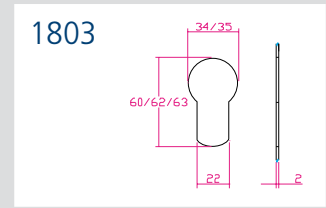
612  
KST L6  
KST K7



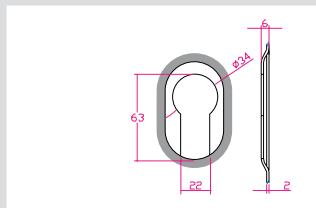
712  
KST L6 U71  
KST K7 S7



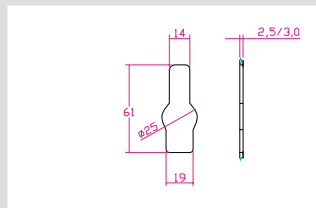
812  
KST L6 U71  
KST K7 S7



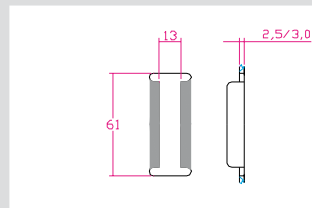
1803  
KST U71  
KST S7



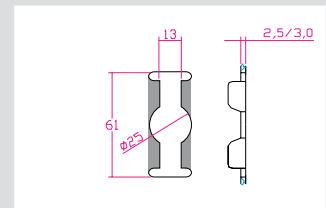
KST U71  
KST S7



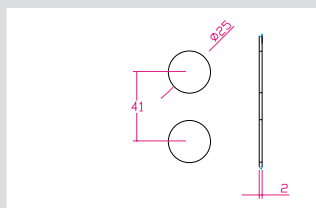
KST U71



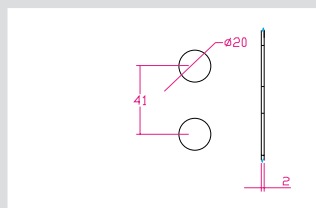
KST U71



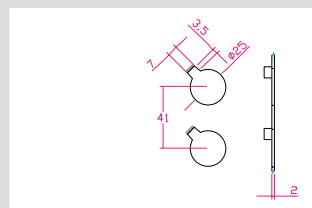
KST U71



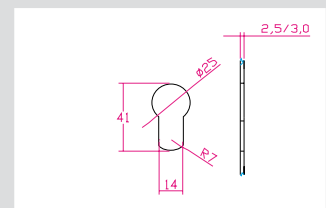
KST upon request  
KST upon request



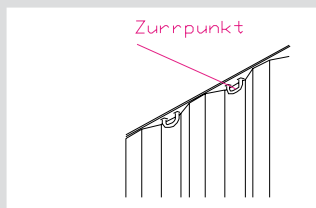
KST upon request  
KST upon request



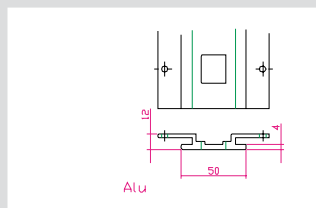
KST upon request  
KST upon request



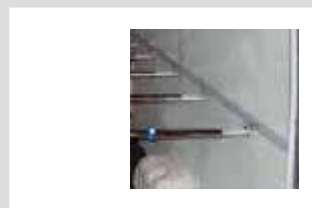
KST upon request  
KST upon request



KST C7



KST F7



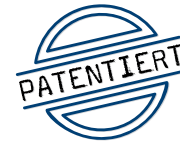
KST TA

The forms can have small dimensional deviations.  
Please contact your WISTRA team if you have any questions.

We will gladly coordinate customer-specific solutions with you.



## Garment rail L6



- Plastic end pieces
- Stay pipe chrome plated – 2,370 mm
- Tension spring function

Version	Item No.	Application range	Weight	Carrying capacity *)
Garment rail L6	<b>268011237017</b>	2,420 – 2,500 mm	6.0 kg	400 kg
Garment rail L6 in special length - stay pipe shorter than 2,370 mm	<b>upon request</b>	according to specification		400 kg
Garment rail L6 in special length - stay pipe longer than 2,370 mm	<b>upon request</b>	according to specification		**)

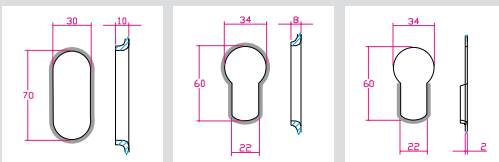
## Garment rail K7



- Plastic end pieces with steel core
- Stay pipe chrome plated – 2,370 mm
- Tension spring function

Version	Item No.	Application range	Weight	Carrying capacity *)
Garment rail K7	<b>267191237017</b>	2,420 – 2,500 mm	7.0 kg	400 kg
Garment rail K7 in special length - stay pipe shorter than 2,370 mm	<b>upon request</b>	according to specification		400 kg
Garment rail K7 in special length - stay pipe longer than 2,370 mm	<b>upon request</b>	according to specification		**)

Suitable for



612

712

812

\*) Carrying capacity for constant loading

\*\*\*) The carrying capacity must be determined separately for this version.

D) The following data must be provided by the customer: free dimension(s) between lashing tracks

## Garment rail U71



- Steel end piece
- Stay pipe chrome plated – 2,370 mm
- Without spring function

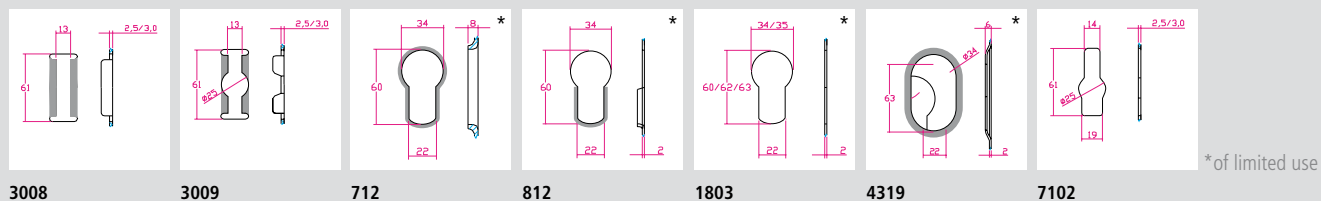
Version	Item No.	Application range	Weight	Carrying capacity *)
Garment rail U71	<b>267382137017</b>	2,420 – 2,500 mm		400 kg
Garment rail U71 in special length – stay pipe shorter than 2370 mm	<b>upon request</b>	According to specification D)		400 kg
Garment rail U71 in special length – stay pipe longer than 2370 mm	<b>upon request</b>	According to specification D)		**)

\*) Carrying capacity for constant loading

\*\*\*) The carrying capacity must be determined separately for this version.

D) The following data must be provided by the customer: free dimension(s) between lashing tracks

### Suitable for



### Options



Velcro strip options



Needle embossing



Fixing axle with spiral hose

## Garment rail S7



- Steel end piece
- Stay pipe chrome plated – 2,370 mm
- With/without spring function

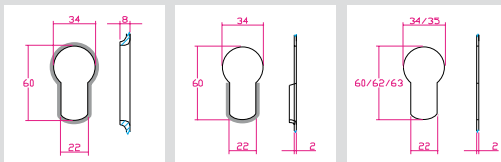
Version	Item No.	Application range	Weight	Carrying capacity *)
Garment rail S7 - without spring function	<b>267390337017</b>	2,420 – 2,500 mm		400 kg
Garment rail S7 - pressure spring function	<b>267290337017</b>	2,420 – 2,500 mm		400 kg
Garment rail S7 - without spring function in special length - stay pipe shorter than 2,370 mm	<b>upon request</b>	According to specification D)		400 kg
Garment rail S7 - pressure spring function in special length - stay pipe shorter than 2,370 mm	<b>upon request</b>	According to specification D)		400 kg
Garment rail S7 - without spring function in special length - stay pipe longer than 2,370 mm	<b>upon request</b>	According to specification D)		**)
Garment rail S7 - pressure spring function in special length - stay pipe longer than 2,370 mm	<b>upon request</b>	According to specification D)		**)

\*) Carrying capacity for constant loading

\*\*\*) The carrying capacity must be determined separately for this version.

D) The following data must be provided by the customer: free dimension(s) between lashing tracks

Suitable for



712

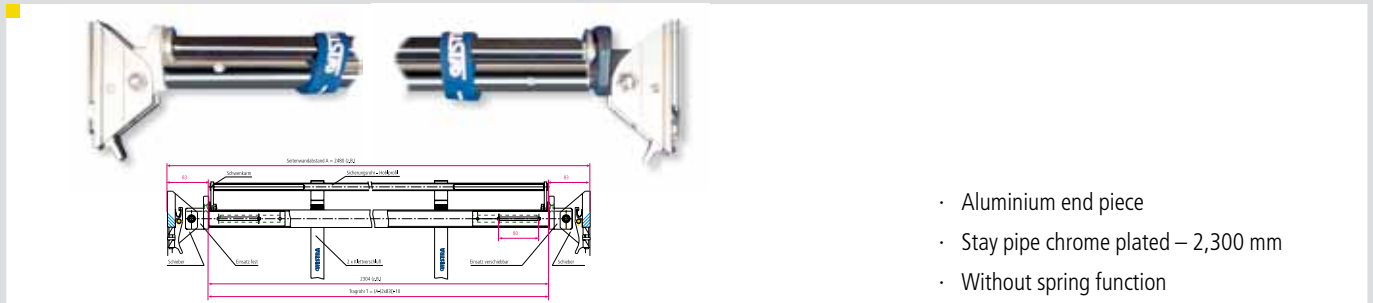
812

1803

Other combination options available upon request



## Garment rail A6 for half-round and flat airline lashing tracks



- Aluminium end piece
- Stay pipe chrome plated – 2,300 mm
- Without spring function

Version for half-round airline lashing tracks	Item No.	Application range	Weight	Carrying capacity *)
Garment rail A6H	<b>268710037017</b>	2,460 – 2,500 mm	7.4 kg	400 kg
Garment rail A6H in special length - stay pipe shorter than 2,300 mm	<b>upon request</b>	According to specification D)		400 kg
Garment rail A6H in special length - stay pipe longer than 2,300 mm	<b>upon request</b>	According to specification D)		**)

Version for flat airline lashing tracks	Item No.	Application range	Weight	Carrying capacity *)
Garment rail A6FL	<b>268720037017</b>	2,460 – 2,510 mm	7,4 kg	400 kg
Garment rail A6FL in special length - stay pipe shorter than 2,300 mm	<b>upon request</b>	According to specification D)		400 kg
Garment rail A6FL in special length - stay pipe longer than 2,300 mm	<b>upon request</b>	According to specification D)		**)

\*) Carrying capacity for constant loading

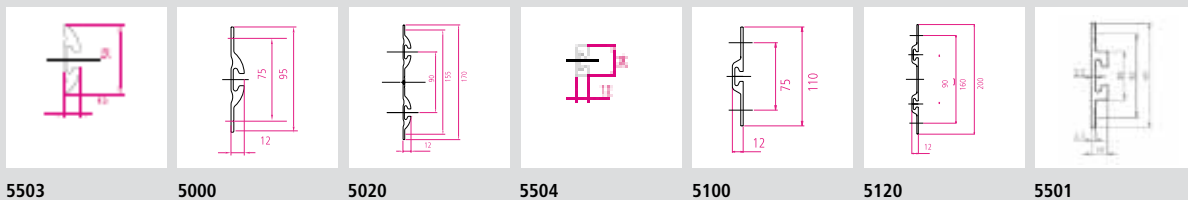
\*\*\*) The carrying capacity must be determined separately for this version.

D) The following data must be provided by the customer: free dimension(s) between lashing tracks

Suitable for

A6H for half-round airline lashing tracks

A6H for flat airline lashing tracks



Other combination options available upon request

## Garment rail TA for airline lashing tracks



- Steel end piece for end-fitting 380
- Stay pipe chrome plated – 2,370 mm
- Without spring function
- Telescope function on both ends

Version for airline lashing tracks	Item No.	Application range	Weight	Carrying capacity *)
Garment rail TA in special length - stay pipe shorter than 2,370 mm	<b>267500000000</b>	According to specification D)		400 kg
Garment rail TA in special length - stay pipe longer than 2,370 mm	<b>upon request</b>	According to specification D)		**)

\*) Carrying capacity for constant loading

\*\*\*) The carrying capacity must be determined separately for this version.

D) The following data must be provided by the customer: free dimension(s) between lashing tracks

Suitable for

TA for lashing tracks in connection with



**EB 380**

### Options



Velcro strip options



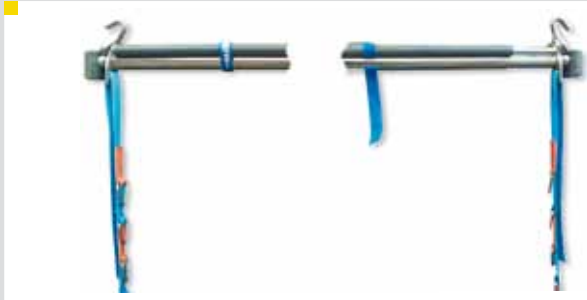
Needle embossing



Fixing axle with spiral hose

Other combination options available upon request

## Garment rail C7 "CONSTAR"



Hooks combined with rubber pad

- Stay pipe chrome plated – 2,280 mm
- 3 Velcro strips
- Fixing axle with plastic spiral hose
- Pressure spring function
- Optional CONSTAR level straps to accommodate additional CONSTAR garment transport rails

Version for half-round airline lashing tracks	Item No.	Application range	Weight	Carrying capacity *)
Garment rail C7 CONSTAR	<b>267286728017</b>		7.3 kg	400 kg
Garment rail C7 CONSTAR in special length stay pipe shorter than 2,370 mm	<b>upon request</b>	According to specification D)		400 kg
Garment rail C7 CONSTAR in special length stay pipe longer than 2,370 mm	<b>upon request</b>	According to specification D)		**)
CONSTAR level strap with D rings	<b>upon request</b>			-
CONSTAR level strap	<b>upon request</b>	According to specification E)		-

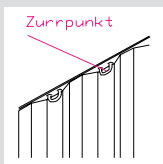
\*) Carrying capacity for constant loading

\*\*\*) The carrying capacity must be determined separately for this version.

D) The following data must be provided by the customer: free dimension(s) between lashing tracks

E) The following data must be provided by the customer: requested positions of the D rings as well as overall length

Suitable for



Version for container and swap bodies with beaded inside wall and lashing points arranged at the top. The fixing axle covered with plastic spiral hose prevents sideways displacement of the hangers.

267

The WISTRA team will gladly support you in view of the manifold versions of containers and swap bodies.

### Options

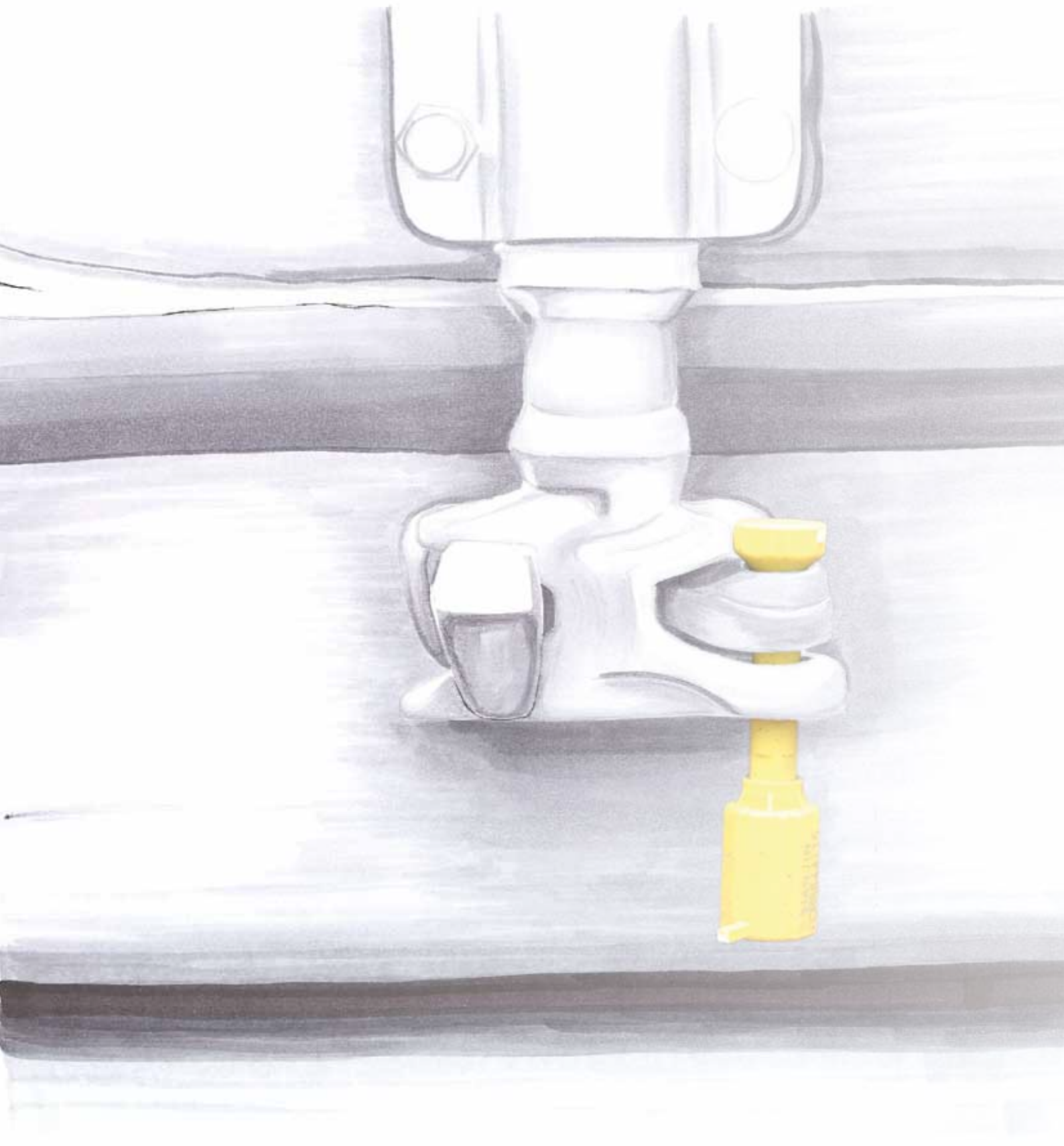


Velcro strip options



Needle embossing

# Security







- The WISTRA security seals are products for the unambiguous identification of your packages and packaging units.

The security seals are unambiguously marked with a serial number. We also offer the option to mark the seals individually.

The products of the high security seals serve as identification protection of the transport units. These versions are also marked with a serial number, which can optionally also be supplemented individually.

With the Mini Breakaway customs seal we have a version in our product range that is supervised by customs authorities.

# Security seals

## Arrow Seal



Length: 220 mm

### Item No. 034 030 5

- solid and user-friendly seal
- Material: Polypropylene
- can also be supplied with bar code
- sequential numbering
- individual marking with company name possible

## Fleet Lock



Length: 25 cm  
Strap dimension:  
1 mm x 5.5 mm

### Item No. 034 209 1

- made of polypropylene (food grade)
- laser coding with serial number and company name
- can also be supplied with bar code
- tensile strength: 19+ kg
- economic ring seal for trailers, tankers etc.

## Dual Lock S304



Length: 210 mm

### Item No. 034 030 4

- made of ABS plastic
- available in many different colours
- sequential numbering
- individual marking with company name possible
- easy and quick to apply

## Gear Lock



Length: 48 cm  
Strap dimension:  
2 mm x 8 mm

### Item No. 034 208 1

- made of polypropylene (food grade)
- laser coding with serial number
- individual marking with company name possible
- tensile strength: 40+ kg
- designed with tear-off feature for all bags and sacks

## Plast Seal



Length: 190 mm

### Item No. 035 000 2

- identification seal
- light plastic seal
- easy and quick to apply
- 7-digit serial numbering
- individual marking with company name possible
- standard colour red, other colours upon request

## Triple Tight Seal



Strap dimension:  
3 mm - 5 mm

### Item No. 034 203

1 for length 19 cm  
2 for length 27 cm  
3 for length 32 cm

- made of polypropylene (food grade), with ABS insert (lock)
- tensile strength 30+ kg
- best protection against manipulation through threefold locking mechanism
- the best seal for form-fit sealing

## Chinch-up Seal S 306



Length: 375 mm

### Item No. 034 030 6

- marking with pen possible
- easy handling
- different colours available
- sequential numbering
- individual marking with company name possible

## Simulock Ring Seal



Length: 220 mm  
Strap dimension:  
1 mm x 8 mm

### Item No. 034 210 1

- made of polypropylene (food grade)
- tensile strength 30 kg
- outside seal with inspection window for all ring seal applications

## SP Cable Lock MCL 200



Length: 15 cm or according  
to customer request  
Cord diameter: 2.0 mm

### Item No. 034 219 1

- locking body of ABS, zinc die casting locking system and zinc plated wire cable
- laser coding with serial number
- individual marking with company name possible
- cost-effective seal for diverse applications during transport

## Dragon Seal



**Item No. 034 206** 1 for length 34 cm  
2 for length 40 cm

- made of polypropylene (food grade)
- metal locking insert for highest security
- can also be supplied with bar code
- long slip for logo
- tensile strength: 45+ kg
- designed with tear-off feature for all bags and sacks

## Plastic Base Padlock Seal



**Item No. 034 030 3**

- two part plastic lock made of ABS plastic
- available with galvanised or stainless steel hoop
- hoop may be notched for additional protection
- sequential numbering
- individual marking with company name possible
- available in many different colours

## Domino



Length: 20 cm

**Item No. 034 1010**

- made of steel sheet and polypropylene (food grade)
- laser coding with serial number
- can also be supplied with bar code
- tensile strength: 90 kg
- offers maximum protection against manipulation

## Cable Breakaway



**Small cable: Item No. 034 010 3**

cable diameter: 1.5 mm | length: 180 mm

**Mini cable: Item No. 034 010 4**

cable diameter: 2.5 mm | length: 180 mm

**Maxi cable: Item No. 034 010 1**

cable diameter: 5.0 mm | length: 250 mm

- metal security seal
- aluminium housing with lock and high strength steel cable
- sequential numbering
- standard colour blue, other colours upon request
- individual marking with company name and bar code possible
- tensile strength 290+ kg to 1.000 kg
- Length: Standard or according to customer request

# High security seal

## Mini Breakaway customs seal

Length: 180 mm  
Cord diameter: 1.6 mm



### Item No. 034 003 0

- metal security seal
- aluminium housing with high strength steel strip
- sequential numbering
- consists of body and lock which must be broken off after tightening

## Containersiegel S 201

Length: 230 mm  
Cord diameter: 1.2 mm



### Item No. 034 020 1

- consists of body, pivot and cable
- pivot made of zinc plated steel passivated
- tensile strength 3 kN
- sequential numbering
- individual marking with company name possible
- cable made of stranded wire

## Sealing Lock

Length: 76 mm  
Diameter: 10 mm



### Item No. 034 010 8

- metal housing with ABS plastic cover
- metal bolt with ABS cover
- sequential numbering
- individual marking with company name possible
- cylindrical form
- two-part bolt seal with tensile strength of more than 4 t

## Container seal S 204

Length: 205 mm  
Strap dimension: 1.5 mm



### Item No. 034 208 1

- body made of steel screw thread
- surface of the body with plastic coating
- sequential numbering
- individual marking with company name possible
- lock must be broken off after tightening
- tensile strength up to 4 kN

## Container seal S 102

Length: 85 mm  
Diameter: 9 mm



### Item No. 034 010 2

- housing made of spring steel with plastic cover
- outer cover made of polycarbonate plastic
- bolt made of steel coated with ABS plastic
- sequential numbering
- individual marking with company name possible

## Container lock S 302

Housing:  
32 x 20 x 10 mm



### Item No. 034 030 2

- rectangular body made of ABS plastic
- U-shaped shackle made of zinc plated steel passivated
- tensile strength up to 4 kN
- sequential numbering
- individual marking with company name possible

## Container seal S 105

Length: 94 mm  
Diameter: 9 mm



### Item No. 034 010 5

- housing made of expansion steel with polycarbonate plastic cover
- sequential numbering
- individual marking with company name possible
- pivot made of zinc plated steel passivated
- secure and reliable

## Mega Cable Lock

Length: 125 mm or  
according to customer  
request



### Item No. 034 224

2 for 2.5 mm  
3 for 3.0 mm  
5 for 5.0 mm

- made of aluminium and steel
- laser coding with serial number and company name
- tensile strength: 580 - 1,275 kg
- double lock for containers and trailers according to C-TPAT

## "Klicker"

Locking length 45 cm  
Diameter: 9 mm



### Item No. 034 221 1

- made of steel and ABS
- anti-twist feature
- suitable for containers and trailers
- also available with double groove locking pin
- according to ISO/PAS 17712 and C-TPAT

## Cable Lock



### Small cable: Item No. 034 010 6

cable diameter: 2.5 mm | length: 200 mm

### Mini cable: Item No. 034 010 9

cable diameter: 3.0 mm | length: 200 mm

### Maxi cable: Item No. 034 010 7

cable diameter: 5.0 mm | length: 250 mm

- metal security seal
- aluminium housing with lock and high strength steel cable
- laser coding with serial number
- individual marking with company name possible
- tensile strength 580+ kg to 1.275 kg
- ideal for trailers, container, tankers, air freight etc.
- according to ISO/PAS 17712 and C-TPAT
- Length: Standard or according to customer request

## Theft protection

### KingPin



#### Item No. 034 422 40

- king pin lock for semi trailers
- is pushed onto the king pin from below
- easy and secure construction
- key with security card

### Fix Lock



#### Item No. 034 225 0

- security lock for outer container door gears
- additional securing against opening of container/swap body/compact vehicle
- easy and safe handling
- patented security system

### WIS TubeSecure 230/460 with 3 keys



#### Item No. 034 226 2

- application range 230 - 460 mm
- up to pipe diameter 33 mm

### Diebstahlschutz für Kraftstofftank



#### Art.-Nr. 034 226 3

- für Ø 105 mm, verzinkte Ausführung
- 2 Bajonettklauen für Original-Stopfen

# Door gears & Bodybuilder Parts





- The POWERBRACE door gears of the series Quad Finger have proven themselves over many years in the area of vehicle and container construction. The patented system of the holder in combination with the cams excludes torsion of the door gear.
- The vehicle components will supplement our supply program with various products in 2013.

## Powerbrace series QF for 1" pipe



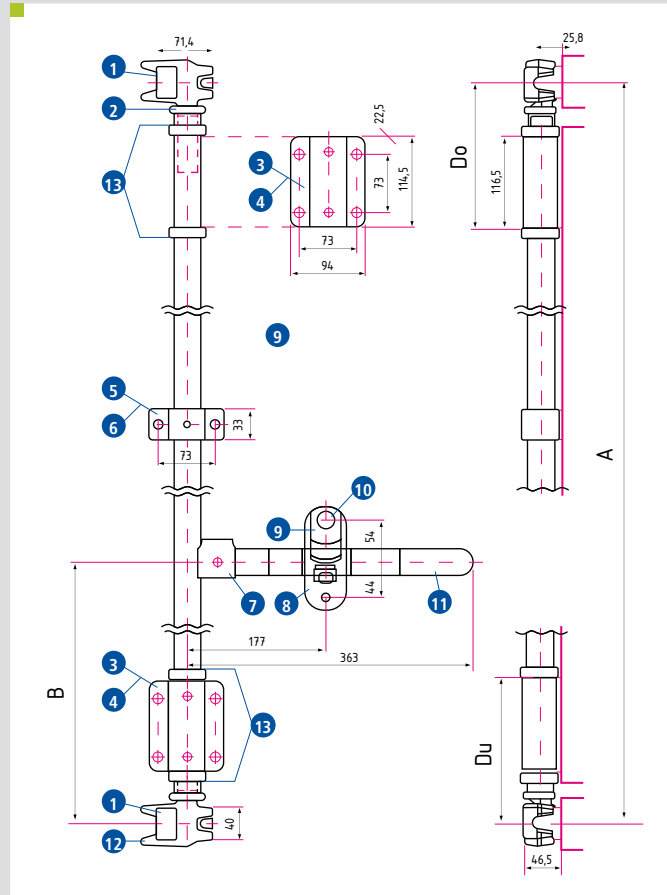
- Robust door lock system, for compact vehicles and trailers, swap bodies and containers etc.
- The patented system of the holder and the cams excludes torsion of the door gear.
- The "ice-breaker" nose on the cam allows even iced-up doors to be opened easily.
- Has been proven over many years in vehicle and container construction.

Designation	Item No.	Quantity
Powerbrace set 3491 consisting of:	<b>3491000</b>	1 set

Item	Designation	Item No.	Quantity
1	Holder, black	<b>34237.01</b>	2 pieces
2	Cam piece, black	<b>34202.01</b>	1 pieces
3	Rod guide, hot-dip galvanised	<b>36008.05</b>	2 pieces
4	Plastic bushing for Item 3	<b>36009.01</b>	2 pieces
5	Rod holder, hot-dip galvanised	<b>36010.05</b>	1 pieces
6	Plastic bushing for Item 5	<b>36011.01</b>	1 pieces
7	Lever mount	<b>33071.01</b>	1 pieces
8	Seal plate	<b>34011.05</b>	1 pieces
9	Seal pin, hot-dip galvanised	<b>34012.05</b>	1 pieces
10	Rivet, galvanised	<b>33085.03</b>	1 pieces
11	lever, hot-dip galvanised	<b>34090.05</b>	1 pieces
12	Cam piece, black	<b>34201.01</b>	1 pieces
13	Anti-rack ring, black	<b>33901.01</b>	4 pieces

weitere Optionen

Designation	Item No.	Quantity unit
1" pipe - standard length	<b>upon request</b>	Pieces
1" pipe - cut length (please specify length)	<b>upon request</b>	Pieces
Locking rod completely welded and hot-dip galvanised	<b>upon request</b>	Pieces





# Vehicle components

## Tool boxes



Material: Injection-moulded PEHD  
Colour: Black

<sup>1)</sup> 3-point locking system

Designation	Dimensions W/H/D	Weight	Quantity Unit	Item No.
Tool box	400/350/350 mm	3,0 kg	Pieces	<b>391001</b>
Tool box <sup>1)</sup>	500/340/450 mm	4,1 kg	Pieces	<b>391002</b>
Tool box <sup>1)</sup>	600/400/470 mm	6,0 kg	Pieces	<b>391003</b>
Tool box <sup>1)</sup>	790/480/470 mm	7,6 kg	Pieces	<b>391004</b>

## Tool boxes, Black Dog



Material: Polyethylene, rotated  
Colour: Black

<sup>1)</sup> with one lock

<sup>2)</sup> with two locks

<sup>3)</sup> with three locks

Designation	Dimensions W/H/D	Quantity Unit	Item No.
Tool box, Black Dog <sup>1)</sup>	400/350/400 mm	Pieces	<b>391006</b>
Tool box, Black Dog <sup>2)</sup>	500/350/400 mm	Pieces	<b>391007</b>
Tool box, Black Dog <sup>2)</sup>	600/450/470 mm	Pieces	<b>391008</b>
Tool box, Black Dog <sup>2)</sup>	600/450/650 mm	Pieces	<b>391009</b>
Tool box, Black Dog <sup>2)</sup>	600/550/650 mm	Pieces	<b>391010</b>
Tool box, Black Dog <sup>2)</sup>	700/450/470 mm	Pieces	<b>391011</b>
Tool box, Black Dog <sup>2)</sup>	700/450/650 mm	Pieces	<b>391012</b>
Tool box, Black Dog <sup>2)</sup>	750/350/360 mm	Pieces	<b>391013</b>
Tool box, Black Dog <sup>2)</sup>	800/450/470 mm	Pieces	<b>391014</b>
Tool box, Black Dog <sup>2)</sup>	1000/500/470 mm	Pieces	<b>391015</b>
Tool box, Black Dog <sup>3)</sup>	1000/500/650 mm	Pieces	<b>391016</b>

## Bracket for tool boxes



Material: Steel, hot-dip galvanised

Designation	Quantity Unit	Item No.
Bracket for tool boxes height 350 mm	Pieces	<b>391040</b>
Bracket for tool boxes height 450 mm	Pieces	<b>391041</b>
Bracket for tool boxes height 500 mm	Pieces	<b>391042</b>
Bracket for tool boxes height 600 mm	Pieces	<b>391043</b>

## Fire extinguisher box



Material: Polypropylene, temperature resistant in the range  $-40\text{ }^{\circ}\text{C}$  to  $+80\text{ }^{\circ}\text{C}$   
 Colour: Lid red with inspection window, housing black  
 Weight: 3.0 kg

### Design

- With quick locking mechanism
- Three hinges and a seal eye
- Fastening buckle

Designation	Quantity Unit	Item No.
Box for 6 kg fire extinguisher	Pieces	<b>391025</b>

## Pallet boxes



Material: Aluminium-zinc sheet (Galvalume ®)

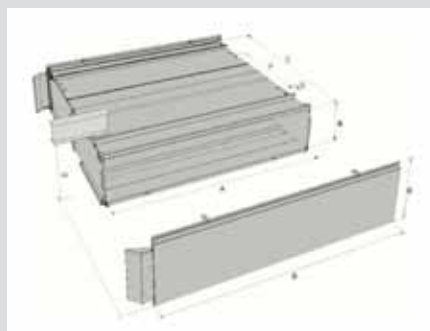
### Version

- Kit including complete installation set (screws, bolts and fixture)
- No sharp edges, perfectly manufactured corners and edges
- Pre-assembled – neither welding nor drilling required
- Easy installation (installation plans and detailed installation instructions)
- Supplied with front angle (width 2,300 mm)
- Replaces side bumper
- Can be used for different chassis types
- Maximum loading with pallets: 1,000 kg



Designation	Quantity Unit	Item No.
Pallet boxes with roof for 24 pallets, weight 280 kg	Pieces	<b>391049</b>
Pallet boxes with roof for 30 pallets, weight 290 kg	Pieces	<b>391050</b>
Pallet boxes with roof for 36 pallets, weight 300 kg	Pieces	<b>391051</b>

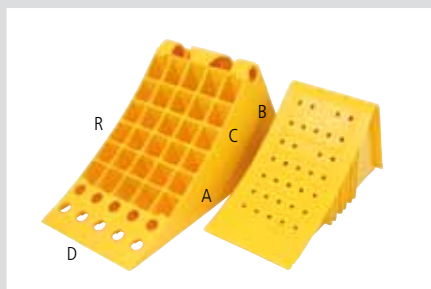
### Technical details



Item No.	Inside dimensions mm		Cover mm		Centre distance mm		Outside height mm	
	A	B	C	D	E	F	G	H
<b>391049</b>	2625	430	2445	2710	575	1305	100/140	485
<b>391050</b>	2625	555	2445	2710	700	1305	100/140	610
<b>391051</b>	2625	605	2445	2710	750	1305	100/140	660



## Wheel chock



Material: Plastic PP DAPLEN  
Colour: Yellow

TÜV-tested

Weight saving of 2–2.5 kg compared to a steel wheel chock

UV- and weather-resistant between –30°C and +50°C

Recyclable material

Optimum ground grip thanks to embedded, galvanised steel rail

Central grip for easy handling

Suitable for semi-trailer tractors, semi-trailers, trucks and trailers

Maximum tyre radius TR, irrespective of its width

Designation	DIN	MR	Quantity Unit	Item No.
Wheel chock	76051-53	530 mm	Pieces	<b>393001</b>
Wheel chock	76051-46	460 mm	Pieces	<b>393002</b>

### Technical details

Item No.	Dimensions					Reinforcing rail	Weight
	R	A	B	C	D		
<b>393001</b>	530 mm	325 mm	145 mm	220 mm	200 mm	-	1,6 kg
<b>393002</b>	460 mm	260 mm	125 mm	180 mm	155 mm	2	1,1 kg

## Bracket for wheel chocks



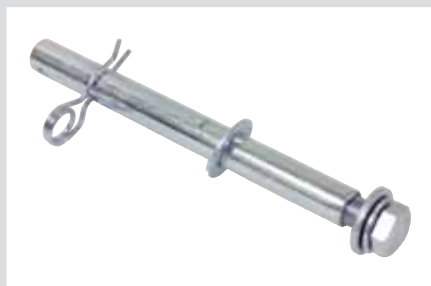
Material: Steel sheet, hot-dip galvanised

With retaining spring

TÜV-tested

Designation	Weight	Quantity Unit	Item No.
Bracket for wheel chock #393001	0,8 kg	Pieces	<b>393004</b>
Bracket for wheel chock #393002	1,3 kg	Pieces	<b>393003</b>

## Bracket for wheel chocks



Material: Steel, galvanised

Designation	Weight	Quantity Unit	Item No.
Bracket for wheel chock	0,8 kg	Pieces	<b>393005</b>





# Sales and supply conditions

## 1. General

- 1.1. These conditions in the valid version underlie all the business transactions pertaining to deliveries and services and even those that will be made in future with us, with entrepreneurs, legal entities under public law and public law entities with special public funds. Deviating conditions of the customer, which are not explicitly recognised by us in writing, are not binding for us even if we do not object to them explicitly.
- 1.2. Verbal declarations of our employees become effective only after our written confirmation. Individual agreements in accordance with § 305 b of the BGB [German Civil Code] are not covered by the existing regulations.

## 2. Offers and acceptance of orders

- 2.1. Our offers are always subject to confirmation. Subject to prior sale.
- 2.2.1. Offers, cost estimates and drawings and brochures with all the documents may not be disclosed to third parties. We retain the copyright of the same and even the ownership, as long as the order is not given to us.
- 2.2.2. As for the rest, all the information from the business relationships must be treated as confidential.
- 2.3.1. Quality, quantities and weights are determined in accordance with the DIN/EN standards valid at the time of signing of the contract and in accordance with the commercial usage in the absence of such standards, particularly the latest Incoterms, and do not represent any warranties or guarantees, such as verification certificates, manufacturer's declarations and relevant signs such as CE and GS.
- 2.3.2. Quantity and weight specifications established by us are definitive and are also subject to standard deviations. "Approximately" specified before quantities authorises us to deliver up to 10% more or less.
- 2.4.1. Our offer or our declaration of acceptance is decisive for the scope of services. Objections pertaining to these declarations must be immediately notified to us in writing before we start work on the order and at the latest within a week after acceptance.
- 2.4.2. The customer is responsible under all circumstances for the legal and technical permissibility to use our products, even if we have expressed relevant suggestions. Our technical data sheets and processing specifications are decisive in case of doubt.

## 3. Prices and payment

- 3.1. The prices are understood as net cash ex works or ex warehouse exclusive of freight and costs for collecting and disposing packaging and VAT. Unforeseen additional expenditures that arise from performing services and for which surcharges are not agreed upon must be borne by the customer, unless we are responsible for their accrual.
- 3.2. Payments are due without deduction in Euro. If already agreed upon, a cash discount is guaranteed if all the preceding bills have been settled, with the exception of those bills against which the customer has legitimate objections. The net bill amount after deduction of discounts, freight, etc. is decisive for calculating the cash discount. All the payments are considered as settled on the day on which the amount is credited to our account.
- 3.3. The customer may neither assert the right of retention nor object to the set-off from other transactions as well as that from the current business relationship. Charging by the customer is ruled out, unless the counterclaim is undisputed.
- 3.4. The customer is defaulted at the latest 14 days after delivery or on exceeding an agreed credit period beyond that. In such cases, we charge an interest of 8% over the basic interest rate. The right to assert any other claim is reserved.
- 3.5. If it is noticed after the signing of the agreement that our pecuniary claim is at risk due to inability of the customer, we are entitled to the rights from § 321 of the BGB, and also to all the other outstanding payments from the business contacts with the customer. If the customer does not make the payment or he/she does not furnish security in a reasonable time, we are also authorised to demand all the imprescriptible claims from this business relationship.
- 3.6. In case of No. 3.4 and 3.5, we can take back all the goods subject to retention of the title (5.3), revoke the direct debit authorisation (5.5) and demand advance payment for deliveries that are still outstanding.
- 3.7. The consequences mentioned in No. 3.5 and 3.6 can be averted by the customer by depositing surety to the amount of our pecuniary claim that is at risk.
- 3.8. As for the rest, the legal regulations pertaining to the default in payment remain unaffected.

## 4. Delivery

- 4.1.1. We deliver goods at customer's risk ex works or ex warehouse depending on the dispatch route and means of transport as well as the shipping agent or carrier. Free delivery to the shipping address of the customer means delivery without unloading on the condition that an access road is available that is accessible to a heavy truck trailer. The customer must unload the delivery immediately and properly. Waiting times are at the expense of the customer.
- 4.1.2. If the transportation is not possible or considerably complicated on the intended route or to the intended location in the specified time for no fault of ours, we are authorised to deliver by using another route or to another location at the expense of the customer as long as this falls within the scope of the customer.
- 4.2. Transport damages and losses during transport can be insured against only if the customer sends an explicit request on his/her behalf. A notification of loss must be given immediately on receiving the goods and must be notified in writing promptly depending on the nature and scope.
- 4.3. Goods that are notified as ready for dispatch must be called immediately. If that does not happen, we are authorised to send them at our discretion at the expense and risk of the customer or to store them at our discretion and charge for it immediately.
- 4.4.1. The customer must accept part deliveries, unless he/she proves that he/she is not obligated to accept them. We are allowed slight deviations in the rendering of the services that are customary in trade.

- 4.4.2. For agreements involving continuous deliveries, we must be given the release orders for approximately the same number of months.
- 4.4.3. If the individual release orders of the customer exceed the accepted quantities, we are authorised to deliver the surplus, but we are not under obligation for the same. We can calculate the surplus at the originally agreed prices or at the prices valid for the delivery.
- 4.5. The fulfilment of the agreement as well as the adherence to the delivery and service deadlines require the following:
  - punctual and correct delivery to us by our suppliers, unless we are responsible for the non-delivery or delay,
  - correct and punctual fulfilment of the cooperation incumbent on the customer, particularly providing all the information, documents and approvals required for performing the services,
  - correct and punctual completion of the preliminary work by the customer or a third party necessary for performing our services, employing suitable help for unloading in particular.
- 4.6. Delivery times are binding for us only on the basis of a written confirmation. The delivery and service deadlines are extended by the period by which the customer does not fulfil his/her obligations towards us and in case of force majeure as well as in case of a labour dispute for the duration of the resulting interruption. The same applies to delivery and service schedules.

## 5. Reservation of proprietary rights

- 5.1.1. All the delivered goods remain our property (goods subject to retention of title) till the fulfilment of all the claims, especially the respective balance claims, which we are entitled to within the scope of the business relationship. The same also applies to future and conditional claims, e.g. due to acceptor's changes, in case of the cheque/bill of exchange procedure till the payment of the bill of exchange by the customer, and in case of payments made for particularly designated claims.
- 5.1.2. The value of the goods subject to retention of title is the net bill amount of the goods delivered by us plus a security surcharge of 50% (22% reduction in value, 4% in accordance with § 171 I InsO [Insolvency Act], 5% in accordance with § 171 II InsO and 19% turnover tax) that is however not considered if it conflicts with the rights of third parties.
- 5.1.3. The overall reservation of title finally lapses with the settlement of all the claims that are still open at the time of the payment and are included in this overall reservation of title.
- 5.2. We, the manufacturers, process goods subject to retention of title in accordance with § 950 of the BGB without committing ourselves. The processed goods are considered as goods subject to retention of title as defined by No. 1. If the goods subject to retention of title are processed, used or mixed with other goods by the customer, we are entitled to a joint ownership of the new object on a pro-rata basis in the ratio of the invoice value of the goods subject to retention of title to the invoice value of the other goods used. If our ownership lapses due to use or mixture with other goods, the customer transfers his/her proprietary rights to the new stock or the new object within the scope of the value of the goods subject to retention of title to us immediately and stores the object free of charge for us. Our joint ownership rights are considered as goods subject to retention of title as defined by No. 1.
- 5.3.1. The customer may sell the goods subject to retention of title during the normal business transaction as per the normal business conditions only if any of the cases mentioned in clauses 4.3. and 4.4. has not occurred and the claims from the resale are passed onto us in accordance with No. 4 to 6. He/she is not authorised to ownership of goods subject to retention of title in any other way.
- 5.3.2. The goods subject to retention of title must be stored separately from other goods and/or must be marked as our property. We are authorised to guarantee the goods at the expense of the customer and enter the property or the premises of the customer for this purpose. The customer is under obligation to handle the delivered items with care and insure them at replacement value against loss, damage or destruction at his/her own expense. The customer thus cedes his/her claims from the relevant insurances to us. We accept this cession. Regulations of the Insolvency Act remain unaffected.
- 5.4.1. The claims of the customer from the resale of the goods subject to retention of title, even during the course of the assembly as an important part of a site, are ceded to us at this stage along with all securities. They serve the purpose of security to the same extent as the goods subject to retention of title. If the goods subject to retention of title are resold by the customer along with other goods that are not sold by us, the claim from the resale is ceded to us equal to the value of the goods subject to retention of title.
- 5.4.2. In case of the resale of goods, which are co-owned by us according to No. 5.2, a part corresponding to our joint-ownership is ceded to us.
- 5.5.1. The customer is authorised to collect claims from the resale, unless we revoke the collection authorisation in the cases mentioned in the paragraphs 3.5 and 3.6.

We will exercise our right of revocation only if we see after the conclusion of the contract that our pecuniary claim is endangered because of this or any other contracts with the customer on account of his/her inefficiency.
- 5.5.2. On our request, the customer is obligated to immediately inform his buyers of the transfer to us, if we do not do so ourselves, and to provide us with the information and documents required for withdrawal. The customer is in no event authorised to further transfer the claims. This also applies to factoring businesses unless the transfer is during the course of the old-line factoring, which is displayed to us and in which case, the factoring revenue exceeds the value of our secured claim. Our claim immediately becomes payable with the credit note of the factoring revenue. If the customer has agreed upon a prohibition of assignment, he/she thus authorises us to withdraw these claims.
- 5.6. The customer must immediately inform us of a seizure or other intervention by third-parties. The customer bears all costs incurred for the recovery of the goods subject to retention of title, if the intervention was successful and the execution against the debtor has remained unsuccessful.

## 6. Warranty

- 6.1.1. Visible material defects must immediately be notified in writing at the latest within 7 days of the delivery. Entrepreneurs, legal entities under public law and public law entities with special public funds must also notify hidden material defects in writing, if they can be ascertained by means of an appropriate investigation, immediately after their discovery, before the expiry of the prescribed statutory limitation period at the latest; § 377 of the German Commercial Code (HGB) remains unaffected for the rest.
- 6.1.2. If the order that was agreed upon or provided by law is not accepted due to reasons that we are not responsible for, material defects cannot be claimed in this respect.
- 6.1.3. If material defects are only detected at the time of use, complaints can only be taken into consideration if the use of these defective articles is immediately discontinued.
- 6.1.4. The material defect claims become inapplicable if the customer does not give us the immediate opportunity to assure ourselves of the material defect, or especially if he does not immediately provide the faulty goods or samples on request.
- 6.2. In case of a legitimate notice of defects within the time limit, we can choose to either first eliminate the defect or deliver a defect-free replacement (subsequent fulfilment).
- 6.3.1. In case of failure or refusal of subsequent fulfilment, the customer can reduce the purchasing price or choose to withdraw from the contract, provided that the defect is not negligible or the product is already sold, used or redesigned.
- 6.3.2. The customer is entitled to claims for damage, in accordance with the regulations of Clause 7.
- 6.4.1. We only incur the expenses associated with the subsequent fulfilment if they are appropriate in individual cases, especially in proportion to the compensation for the performance.
- 6.4.2. Expenses caused by the transfer of the goods to a location other than the place of delivery are not covered by us, unless this was in compliance with their use as per the contract.
- 6.5.1. The claims of the customer on account of material defects lapse in a year after delivery to the customer even if they are used for a construction, unless this manner of use was agreed upon in writing.
- 6.5.2. In cases of subsequent fulfilment, there is no renewed start of the statutory limitation period.
- 6.6. The claims of the customer on account of deliberate or grossly negligent behaviour on our part, in case of the deceitful concealment of material defects or the assumption of a warranty by us and his/her recourse rights from § 478 of the (BGB) remain unaffected by the preceding regulations, as long as they fall within the scope of the legal material defect claims. The customer is obligated to adopt measures for mitigating the damage.

## 7. Other liabilities

- 7.1. On account of violation of contractual and non-contractual liabilities, we are also liable for our managerial employees and other agents, only in case of deliberate intention and gross negligence, limited to the damage typical of the contract, foreseeable when forming the contract.
- 7.2. The regulations of clause 6.5 apply accordingly, with regard to the statute of limitation.
- 7.3. These limitations are not applicable in case of culpable violation of substantial contractual obligations if the achievement of the objective of the contract is at risk, in case of compulsory liability according to the Product Liability Act, in case of injury to life, limb and health or if we have concealed defects fraudulently or assumed guarantee.
- 7.4. The regulations regarding the burden of proof remain unaffected.

## 8. Applicable law, jurisdiction

- 8.1. German law applies to all the businesses, even the foreign businesses. The application of the UN Convention on Contracts for the International Sale of Goods (CISG) is excluded.
- 8.2. If the conditions for a jurisdiction agreement as per § 38 of the civil process order are present, the place of jurisdiction for all claims of the contract parties is Lübeck.
- 8.3. However, we can also request the holding of disputes through friendly arbitration.

### Additional information

You will get updated information on our web page. You will find the products presented in this catalogue and news about the products here. Besides this we have prepared PDF files for all product groups, which you can download conveniently.

You can request catalogues, folders, flyers and other information material on special topics and novelties. Just give us a call - we will gladly send you the relevant documentation.

We look forward to your visit on our web page and to your call.

[www.wistra.eu](http://www.wistra.eu)



You can also visit us on Facebook.

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Date: February 2014

**WISTRA**  
CARGO CONTROL