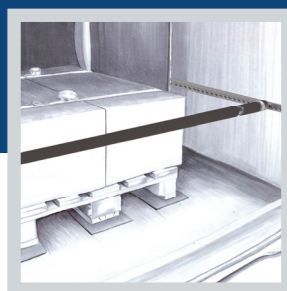
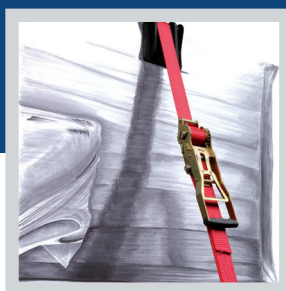


# MISSTRA CARGO CONTROL



Catalogue 2016/2017

**For your valuable load:  
Security with a system.**

---

# 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 13. September 2016

Subject to technical changes and copyright. Deliveries are exclusively subject to our conditions of sale and delivery. This catalogue is our intellectual property! Reprinting and reproduction - including excerpts - as well as the use of our images, is only permitted after our prior written permission. We assume no warranty for the data, descriptions, representations, notes and recommendations in this catalogue for the use of the items offered by us. In principle legal claims cannot be made based on this, because generally the deployment and use are beyond our control. Moreover, the user himself is obliged to check and decide whether the items offered by us can be used in individual cases.

WISTRA GmbH

# Table of contents

## ■ Introduction

|  |    |
|--|----|
| WISTRA – about us . . . . .            | 4  |
| WISTRA quality documentation . . . . . | 10 |
| Production is our strength . . . . .   | 11 |

## ■ Textile load securing

|   |    |
|---|----|
| Lashing straps . . . . .                        | 14 |
| Lashing straps for car transportation . . . . . | 49 |
| Motorcycle transport lashing straps. . . . .    | 55 |
| Ratchets. . . . .                               | 82 |
| Overcenter locks. . . . .                       | 84 |
| Clamp locks . . . . .                           | 85 |
| End-fittings . . . . .                          | 86 |
| Lifting technology. . . . .                     | 98 |
| Lashing lift system . . . . .                   | 57 |
| „LadeBOX“ . . . . .                             | 58 |
| Lashing strap accessories . . . . .             | 62 |
| containers Cargo nets . . . . .                 | 64 |
| Wistra Safecon . . . . .                        | 79 |
| Wistra Safetainer . . . . .                     | 80 |
| Wistra One-way lashings                         |    |
| WIS hoop. . . . .                               | 96 |
| Key-Lock . . . . .                              | 97 |

## ■ Stagecraft

|  |     |
|--|-----|
| Lashing straps - stagecraft . . . . .      | 100 |
| Hoisting technology - stagecraft . . . . . | 102 |

## ■ Mechanical load securing

|   |     |
|---|-----|
| Airline lashing tracks . . . . .                        | 106 |
| Lashing points . . . . .                                | 115 |
| Airline accessories . . . . .                           | 116 |
| Airline lashing lashing tracks, processed . . . . .     | 118 |
| Lashing tracks . . . . .                                | 119 |
| Shoring beams . . . . .                                 | 128 |
| Partition wall and parting grids. . . . .               | 124 |
| Cold safe wall . . . . .                                | 125 |
| Cargo bars . . . . .                                    | 153 |
| Decking beams . . . . .                                 | 156 |
| Longitudinal Bars . . . . .                             | 158 |
| WISTRA double-level systems for curtain sider . . . . . | 163 |
| WISTRA double-level systems for box bodies. . . . .     | 166 |
| Parting wall locks . . . . .                            | 159 |
| Sliding decking beams . . . . .                         | 167 |
| Garment transport rails. . . . .                        | 173 |

## ■ Security

|  |     |
|--|-----|
| Security seals & high security seals . . . . . | 184 |
| Theft protection . . . . .                     | 185 |

## ■ Door gears & Bodybuilder Parts

|                                |     |
|--------------------------------|-----|
| Powerbrace door gears. . . . . | 188 |
| Bodybuilder Parts . . . . .    | 189 |

|  |     |
|--|-----|
| General terms and conditions . . . . . | 195 |
|--|-----|

# Our experience guarantees your safety!



Mark Zübel

## Dear customer,

We are pleased to present our Catalogue 2016/2017 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

Managing Director of WISTRA GmbH



WISTRA company building in Lübeck-Selmsdorf

## The company

WISTRA offers a broad portfolio of textile and mechanical utilities for load securing.

Our market position is based on a competent staff base that fulfils your requirements with expertise and experience and on application-oriented and high-quality products at prices in line with the market.

WISTRA – Your number one contact for innovative load securing systems in Europe

As a member of the Heico group, we additionally cooperate with US market leaders in the field of load securing in development and production.

### 1986

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

### 1991

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

### 1994

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

### 1998

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

### 1988

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

### 1993

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

### 1997

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

### 2002

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

# 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.*



Materials testing by WISTRA

### 2004

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

### 2007

Founding of a subsidiary in the Baltic states, Wistra U.A.B.

### 2009

Sales cooperation on the Russian market

### 2014

Expansion and development of the subsidiary Wistra U.A.B.

### 2006

Mark Zubel is appointed in company management.

### 2008

Expansion of the warehouse and production area by 1,600 m².

### 2012

Application of state-of-the-art fully automatic sewing machines for extending the production capacity and flexibility

### 2016

Incorporation in the Heico Group of Companies

# 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 certified and manufactured according to the current state of the art in terms of DIN EN 12 195-2.

Our SAFEGUARD load securing nets are developed specifically for transportation goods, adapted and made up individually. Production, labeling and testing in accordance with VDI Directive 2700 Sheet 3.3.

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.



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.

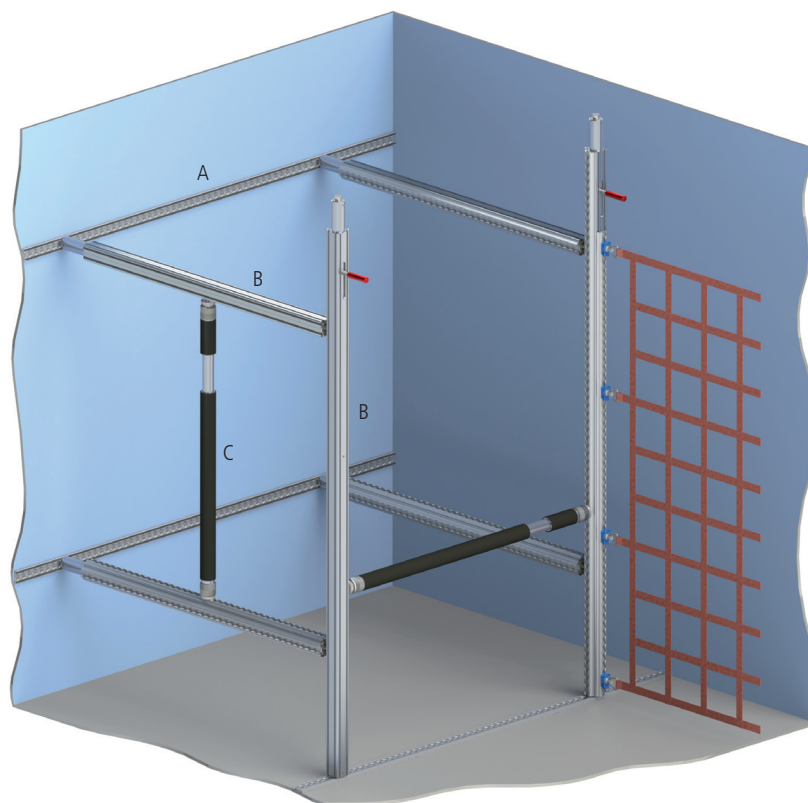
## For vans and trailers

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.



A = Lashing tracks  
B = Shoring beam  
"Spairbalken"  
C = Airline-Beam

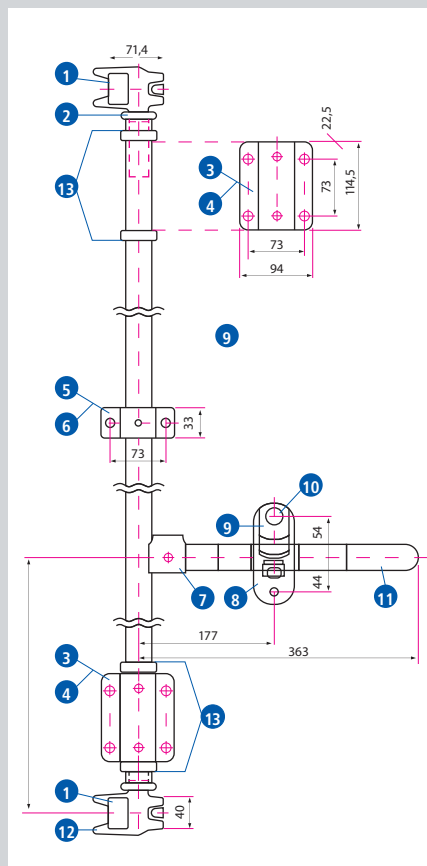
## Door gears

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

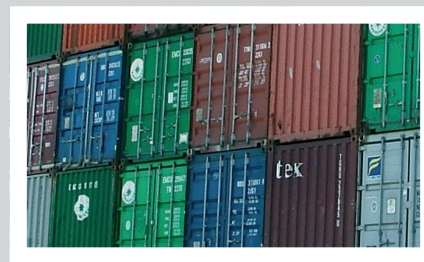
WISTRA door gears are designed and constructed for extreme conditions. Even if a door has not been closed properly it cannot open. The "over centre action" prevents the door from opening.

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



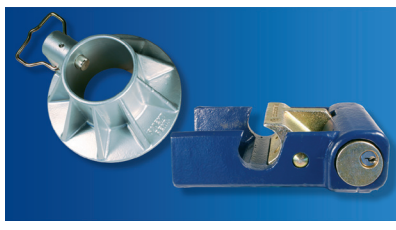
Powerbrace door gears with a patented locking action

## 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 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.

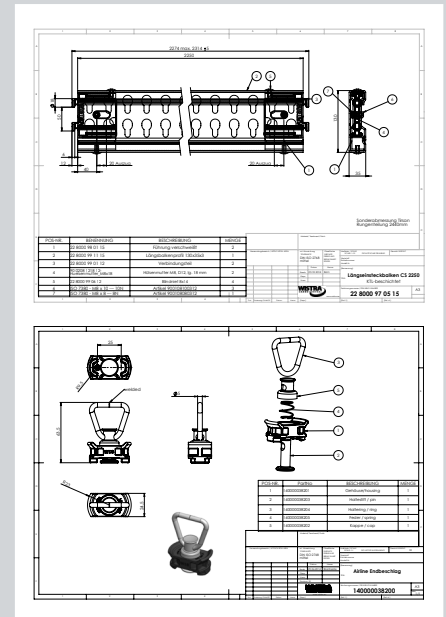
The WISTRA development engineers analyse the specific tasks on site together with the customer and develop individual transport securing concepts.

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 30 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.

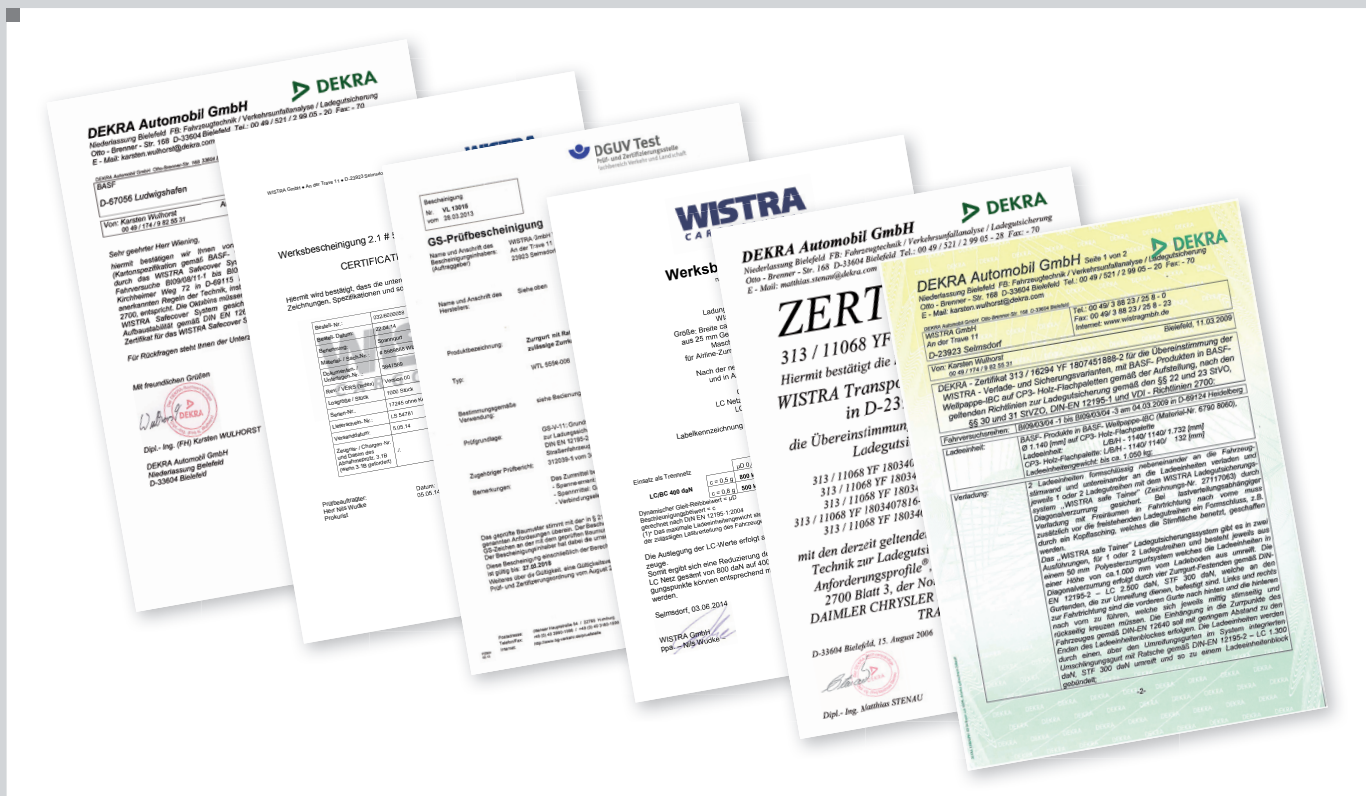
Upon your request we can supply many items with your company logo and/or company name.

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 quality documentation



As a manufacturer, we can also issue the respectively required documentation. However, to do so, please state which documents you require during the offer phase, but at the latest upon order placement.

Depending on the documentation you require, we will inform you about the respective costs.

We can offer you the following documentation options:

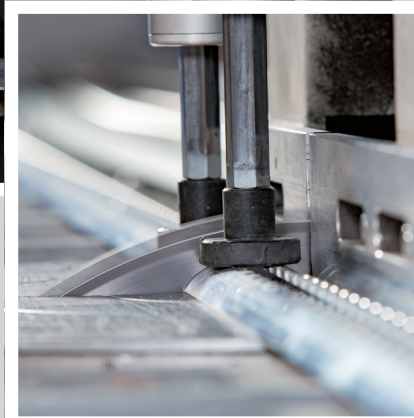
- **WISTRA Factory Certificate 2.1**  
in acc. with DIN EN 10204:2004
- **WISTRA Factory Certificate 2.2**  
in acc. with DIN EN 10204:2004
- **WISTRA Manufacturer's Declaration COC**
- **Approval Test Certificate 3.1**  
in acc. with DIN EN 10204:2004

Together with external testing organisations

- **Approval Test Certificate 3.2**  
in acc. with DIN EN 10204:2004

Many products have already been GS or DEKRA certified.

# Production is our strength



# 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<sub>TF</sub>** – **Standard Tension Force** – are of importance to you.

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

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



# Lashing straps

## The WIS label

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

### WIS label short end

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

### WIS label long end

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



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

## User information, Additional label and User Manual

### Benutzerinformation

Es dürfen nur unbeschädigte  
Zurrgurte verwendet werden,  
deren Etikett lesbar ist.  
Unsachgemäße Ladungssicherung  
stellt eine Gefahr für das Leben  
von Personen, Tieren oder Gütern  
im Gefahrenbereich dar.  
Die praktischen Hinweise zur  
Benutzung und Pflege von  
Zurrgurten gemäß  
DIN EN 12195 - 2 Anhang B  
sind unbedingt einzuhalten.

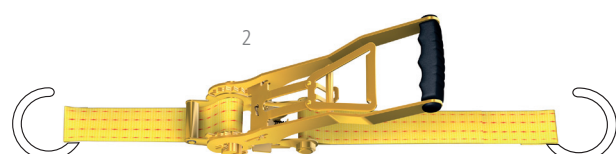
Reverse side



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.



1st

Correct handling of ratchets

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

## Handling of ratchets

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



2.

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 N = 50 daN specified on the label

### Standard tension force STF

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



### WISTRA Information

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



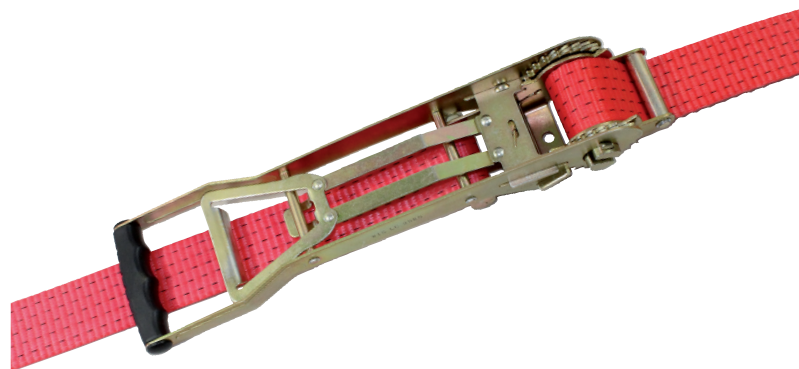
# Lashing straps · Heavy duty lashing straps

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

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

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

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



## Overview of the lashing strap options

### Sorted according to initial tension STF

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

### Sorted according to LC in straight tension

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

## WISTRA WTR 10000 pressure ratchet lashing strap

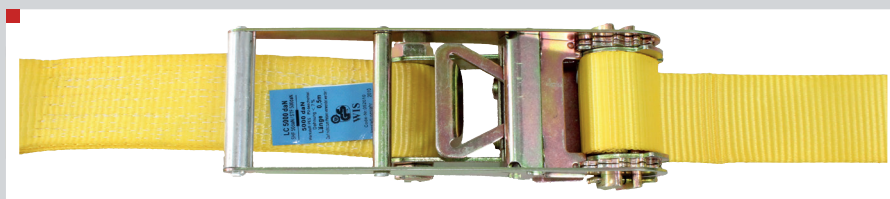
- Lashing capacity LC 5,000 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- [Tensioning element ratchet 975](#)
- Strap – durable due to PU coated webbing (PES)

End-fittings:



067

More end-fittings from Page 86.



| 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+7.5 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 WTC 5300 pressure ratchet lashing strap

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

End-fittings:



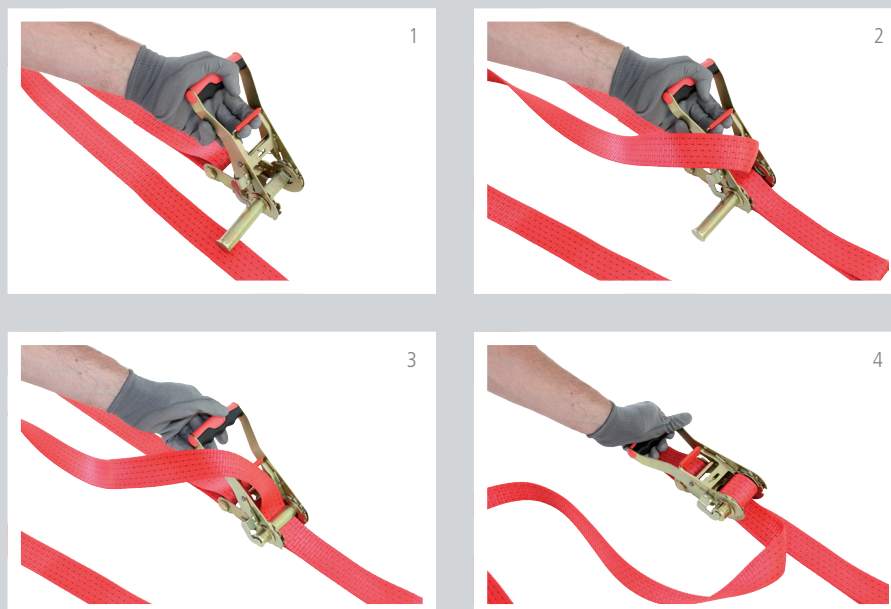
You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 86.



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

### Application

With Quick View Label



Scan in QR code and  
watch application video

## WISTRA WTQ 5550 tension ratchet lashing strap

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

With Quick View Label



### Accessories



Edge protection



Anti-slip mat

### WISTRA WTQ 555K tension ratchet lashing strap

Version with body tissue

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

### WISTRA WTQ 555W tension ratchet lashing strap

Version with water-repelling webbing

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

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

### WISTRA WTQ 555R tension ratchet lashing strap

Version with two reflective strips in the webbing

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

End-fittings:

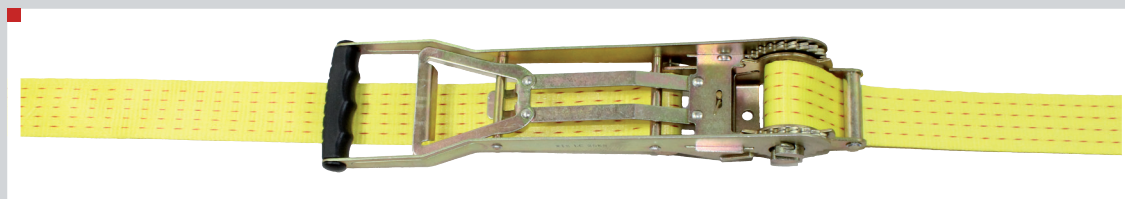


You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 86.

Scan in QR code  
and watch webbing  
comparison

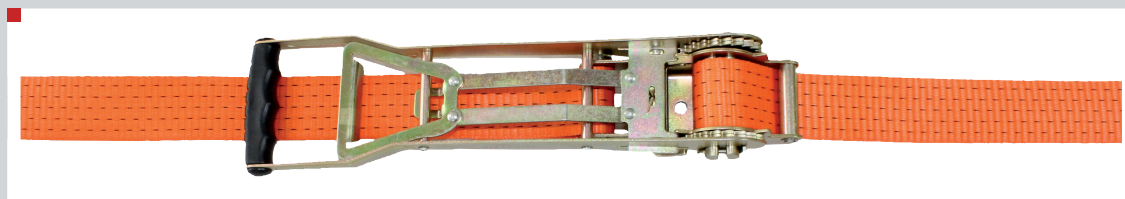


### WISTRA WTQ 555K tension ratchet lashing strap



| Standard version                                     | Short designation                        | Item No.       |
|--|--|----------------|
| single-part - 8.0 m                                  | WTQ 555K single-part 8.0 lemon yellow QV | <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 QV     | <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 QV     | <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 QV     | <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 QV    | <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 QV | <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 QV       | <b>1501039</b> |
| two-part – FE 0.5 m + LE 8.5 m orange webbing  | WTQ 555W-006 0.5+8.5 orange QV       | <b>1501040</b> |
| two-part – FE 0.5 m + LE 9.5 m orange webbing  | WTQ 555W-006 0.5+9.5 orange QV       | <b>1501041</b> |
| two-part – FE 0.5 m + LE 11.5 m orange webbing | WTQ 555W-006 0.5+11.5 orange QV      | <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 QV | <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 QV     | <b>1501044</b> |
| two-part – FE 0.5 m + LE 8.5 m orange webbing  | WTQ 555R-006 0.5+8.5 orange QV     | <b>1501045</b> |
| two-part – FE 0.5 m + LE 9.5 m orange webbing  | WTQ 555R-006 0.5+9.5 orange QV     | <b>1501046</b> |
| two-part – FE 0.5 m + LE 11.5 m orange webbing | WTQ 555R-006 0.5+11.5 orange QV    | <b>1501047</b> |

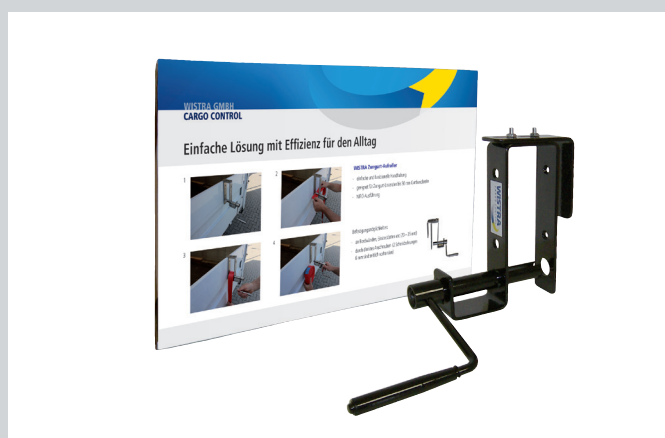
## WISTRA WTQ 5500 tension ratchet lashing strap

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

With Quick View Label



### Accessories



Strap rolling-up system



Parking device

### WISTRA WTQ 550K tension ratchet lashing strap

Version with body tissue

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

### WISTRA WTQ 550W tension ratchet lashing strap

Version with water-repelling webbing

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

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

### WISTRA WTQ 550R tension ratchet lashing strap

Version with two reflective strips in the webbing

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

End-fittings:

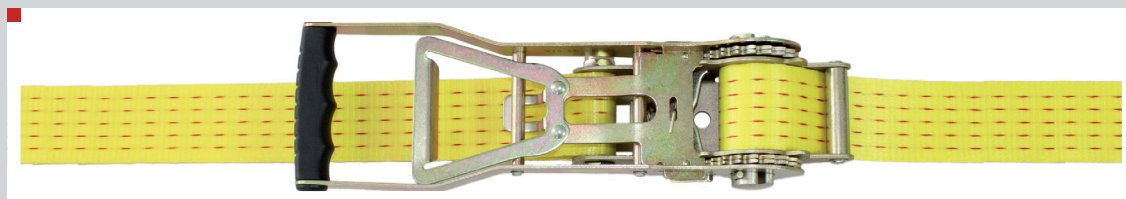


You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 86.

Scan in QR code  
and watch webbing  
comparison

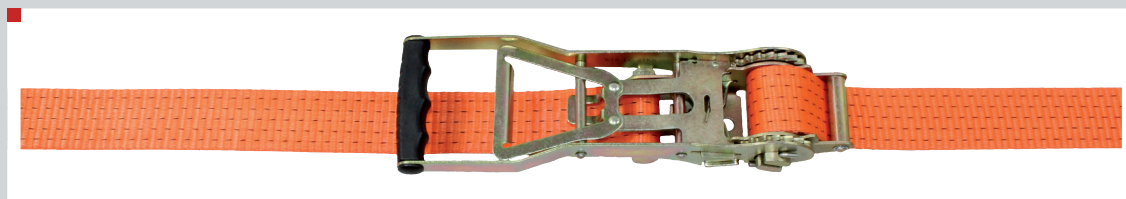


### WISTRA WTQ 550K tension ratchet lashing strap



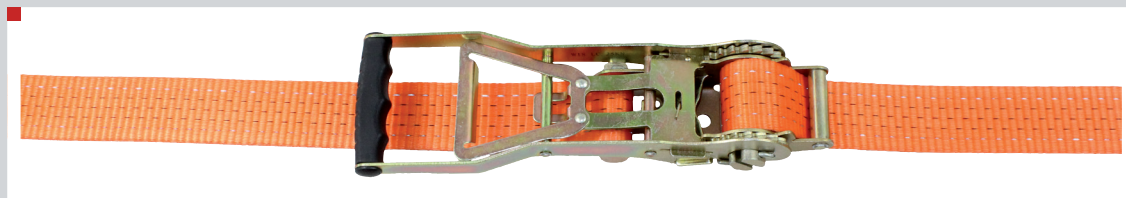
| Standard version                                     | Short designation                        | Item No.       |
|--|--|----------------|
| single-part - 8.0 m                                  | WTQ 550K single-part 8.0 lemon yellow QV | <b>1501048</b> |
| <b>with end-fitting 006 - pointed hook</b>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

### WISTRA WTQ 550W tension ratchet lashing strap



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

### WISTRA WTQ 550R tension ratchet lashing strap



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

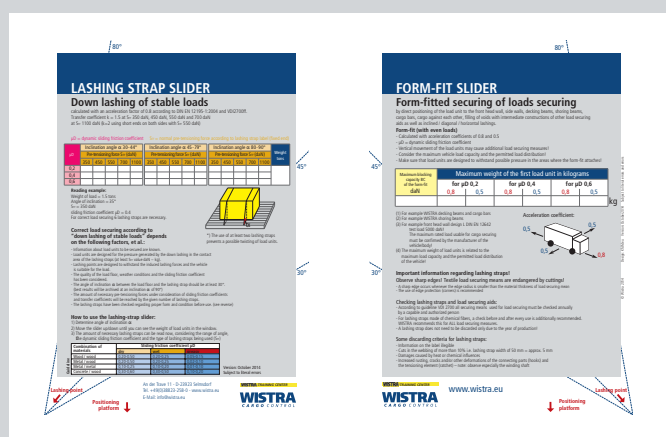
# WISTRA WTQ 5350 pressure ratchet lashing strap

- 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
- Stretch  $\leq 5\%$

With 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 from Page 86.

## WISTRA WTQ 535K pressure ratchet lashing strap

Version with body tissue

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

## WISTRA WTQ 535W pressure ratchet lashing strap

Version with water-repelling webbing

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

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

## WISTRA WTQ 535R pressure ratchet lashing strap

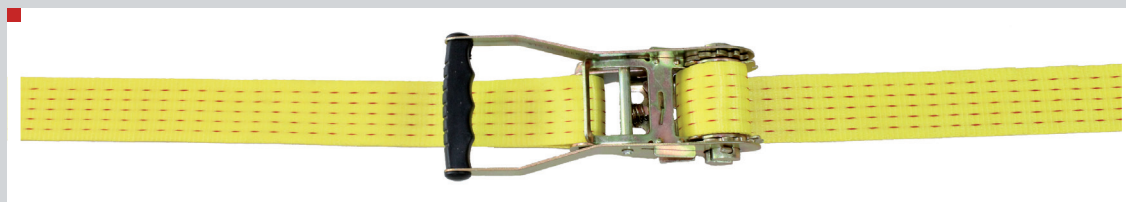
Version with two reflective strips in the webbing

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

Scan in QR code  
and watch webbing  
comparison

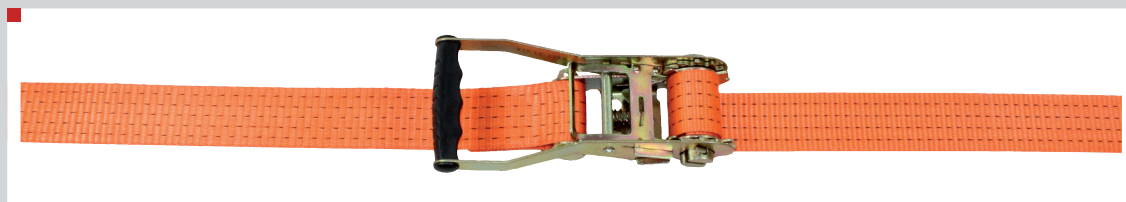


### WISTRA WTQ 535K pressure ratchet lashing strap



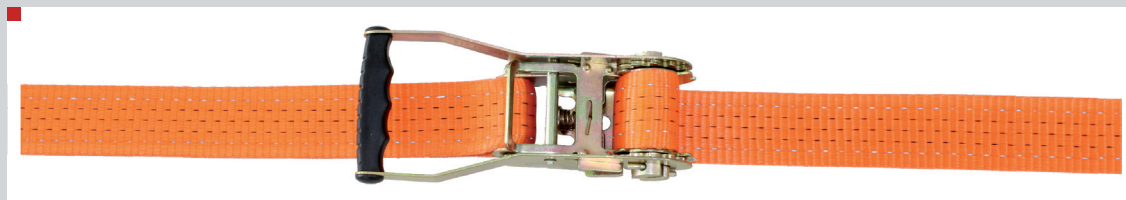
| Standard version                                     | Short designation                        | Item No.       |
|--|--|----------------|
| single-part - 8.0 m                                  | WTQ 535K single-part 8.0 lemon yellow QV | <b>1501002</b> |
| <b>with end-fitting 006 - pointed hook</b>           |  |                |
| two-part – FE 0.5 m + LE 7.5 m lemon yellow webbing  | WTQ 535K-006 0.5+7.5 lemon yellow QV     | <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 QV     | <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 QV     | <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 QV    | <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 QV | <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 QV     | <b>1500688</b> |
| two-part – FE 0.5 m + LE 7.5 m orange webbing | WTQ 535W-006 0.5+7.5 orange QV     | <b>1501008</b> |
| two-part – FE 0.5 m + LE 8.5 m orange webbing | WTQ 535W-006 0.5+8.5 orange QV     | <b>1501009</b> |
| two-part – FE 0.5 m + LE 9.5 m orange webbing | WTQ 535W-006 0.5+9.5 orange QV     | <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 QV | <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 QV     | <b>1501013</b> |
| two-part – FE 0.5 m + LE 8.5 m orange webbing  | WTQ 535R-006 0.5+8.5 orange QV     | <b>1501014</b> |
| two-part – FE 0.5 m + LE 9.5 m orange webbing  | WTQ 535R-006 0.5+9.5 orange QV     | <b>1501015</b> |
| two-part – FE 0.5 m + LE 11.5 m orange webbing | WTQ 535R-006 0.5+11.5 orange QV    | <b>1501016</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)
- Stretch  $\leq 5\%$

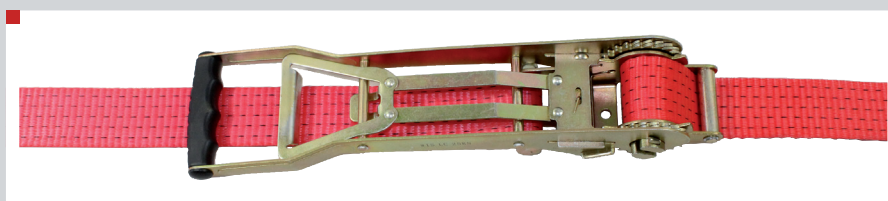


End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 86.

With Quick View Label



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

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

## WISTRA WTE 5500 tension ratchet lashing strap

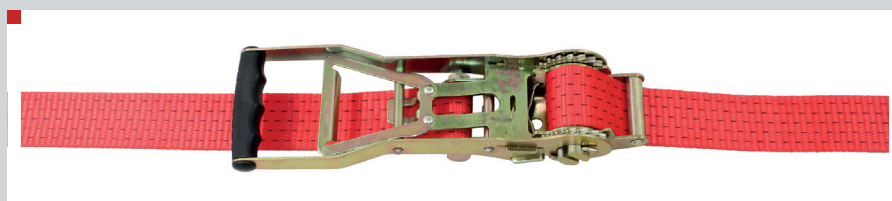
- Normal tension force  $S_{TF}$  500 daN  
for normal hand force  $S_{HF}$  50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 822
- Strap 50 mm – durable due to PU coated webbing (PES)
- Stretch 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

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 86.

With Quick View Label



| Standard version   | Short designation                 | Item No.               |
|--|-----------------------------------|------------------------|
| single-part - 6.0 m red webbing  | WTE 5500 single-part 6.0 red      | <b>1509578</b>         |
| single-part - 8.0 m red webbing  | WTE 5500 single-part 8.0 red      | <b>1509579</b>         |
| single-part - 10.0 m red webbing   | WTE 5500 single-part 10.0 red     | <b>1509580</b>         |
| <b>with end-fitting 006 - pointed hook</b>                                     |                                   |                        |
| two-part – FE 0.4 m + LE 5.6 m red webbing                                     | WTE 5500-006 0.4+5.6 red          | <b>1509581</b>         |
| two-part – FE 0.4 m + LE 7.6 m red webbing                                     | WTE 5500-006 0.4+7.6 red          | <b>1500317</b>         |
| two-part – FE 0.4 m + LE 8.6 m red webbing                                     | WTE 5500-006 0.4+8.6 red          | <b>1509582</b>         |
| two-part – FE 0.4 m + LE 9.6 m red webbing                                     | WTE 5500-006 0.4+9.6 red          | <b>1500323</b>         |
| two-part – FE 0.4 m + LE 11.6 m red webbing                                    | WTE 5500-006 0.4+11.6 red         | <b>1509583</b>         |
| Fixed end 0.4 m red webbing  | WTE 5500-006 FE 0.4 red           | <b>1500310</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 5500-006 0.4+5.6 red "print"  | <b>1509584</b>         |
| two-part – FE 0.4 m + LE 7.6 m red webbing                                     | WTE 5500-006 0.4+7.6 red "print"  | <b>1509585</b>         |
| two-part – FE 0.4 m + LE 8.6 m red webbing                                     | WTE 5500-006 0.4+8.6 red "print"  | <b>1509586</b>         |
| two-part – FE 0.4 m + LE 9.6 m red webbing                                     | WTE 5500-006 0.4+9.6 red "print"  | <b>1500324</b>         |
| two-part – FE 0.4 m + LE 11.6 m red webbing                                    | WTE 5500-006 0.4+11.6 red "print" | <b>1509587</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)
- Stretch  $\leq 5\%$

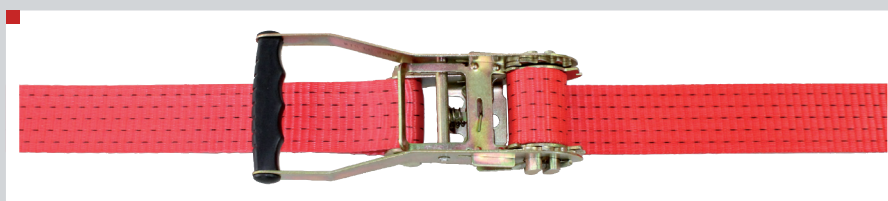


End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 86.

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 5.6 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

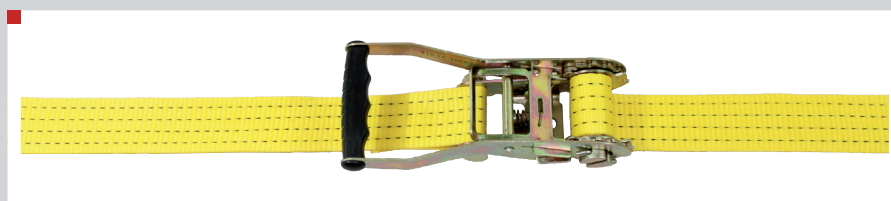
- Normal tension force  $S_{TF}$  350 daN  
for normal hand force  $S_{HF}$  50 daN
- Lashing capacity LC 2,000 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 811
- Strap 50 mm – durable due to PU coated webbing (PES)
- Stretch 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

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 4,000 daN from Page 86.

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

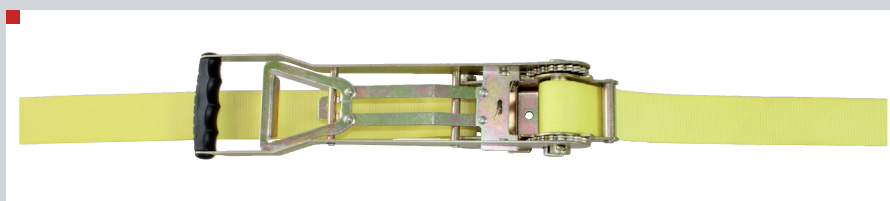
with high tension force for tying down

- 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)
- Stretch  $\leq 5\%$

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 1,600 daN from Page 86.



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

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

With Quick View Label



## WISTRA WTB 5000 head lashing straps

Round slings with traverse arches

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



| Standard version<br>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

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

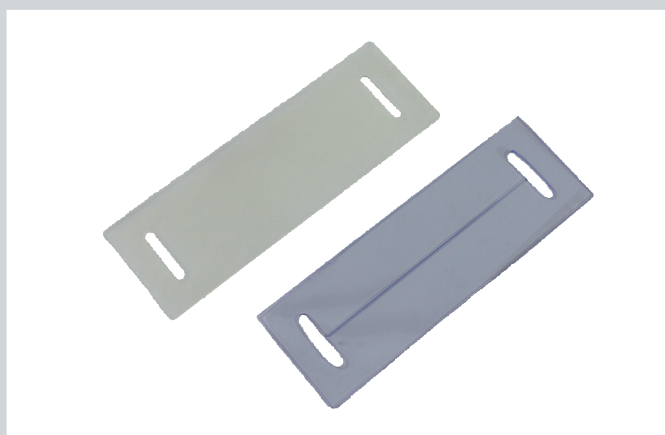
Version with adjustable length of the fixed end

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

With Quick View Label



### Accessories



Ratchet bases



Label cover

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

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

### WISTRA WTF 5500-306/006 tension ratchet lashing strap

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

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

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

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 86.

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



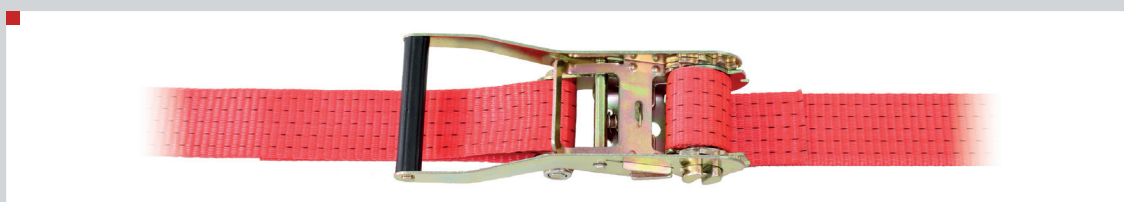
| Standard version   | Short designation                       | Item No.       |
|--|---|----------------|
| Fixed end with end-fitting 306 - pointed hook, loose end with end-fitting 006 - pointed hook |   |                |
| two-part – FE 0.3 m to 1.5 m + LE 7.6 m red webbing  | WTF 5550-306/006 0.3/1.5 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 5500-306/006 tension ratchet lashing strap



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

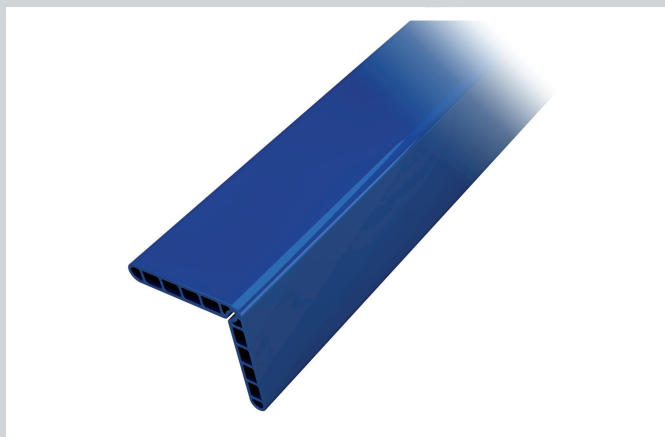
Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request

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

### Accessories



Edge protection



Edge protection

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

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

#### WISTRA WTE 550A-006 tension ratchet lashing strap

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

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

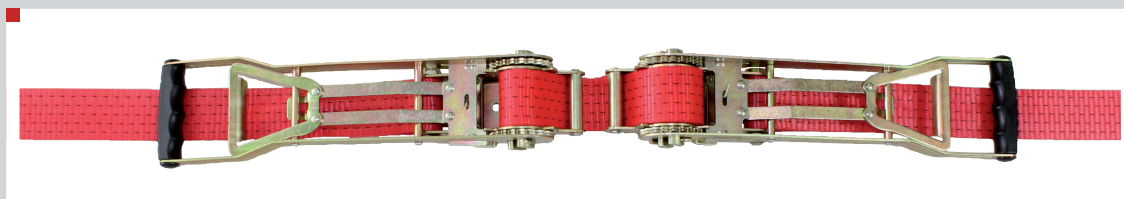
- System - normal tension force  $STF$  350 daN  $\times 2 = 700$  daN  
for normal hand force  $2 \times SHF$  50 daN
- Tensioning element ratchet 811

End-fittings:



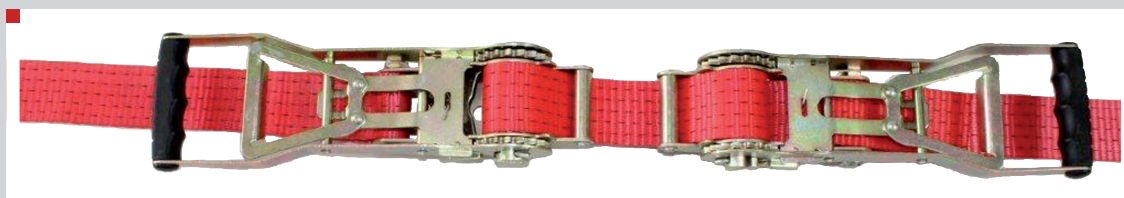
You can find additional end-fittings with a minimum breaking force MBL 5,000 daN from Page 86.

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



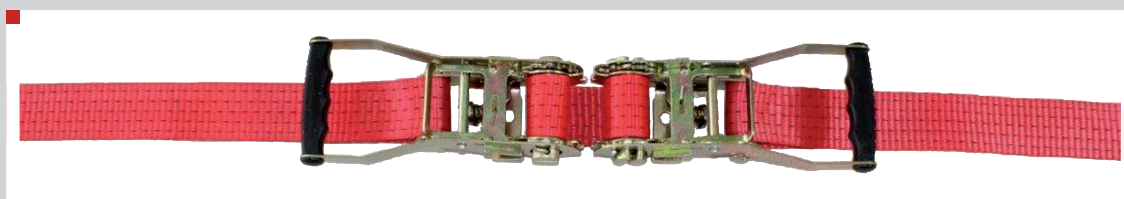
| Standard version                                  | Short designation           | Item No.       |
|---|-----------------------------|----------------|
| Fixed ends with end-fitting 006 - pointed hook    |                             |                |
| three-part – 2 x FE 0.5 m + LE 7.0 m red webbing  | 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 550A-006 tension ratchet lashing strap



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

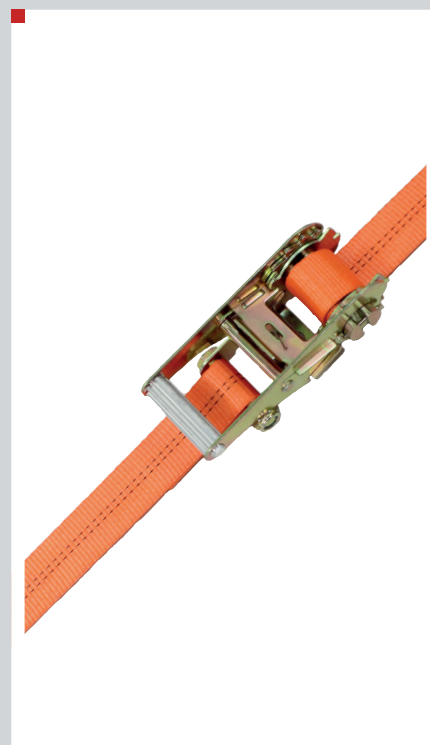
# Lashing straps · to LC 1,000 daN

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

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



WTK 600-605/025



WTR 2000

## Overview of the lashing strap options

Sorted according to LC in straight tension

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

## WISTRA WTR 2000 pressure ratchet lashing strap

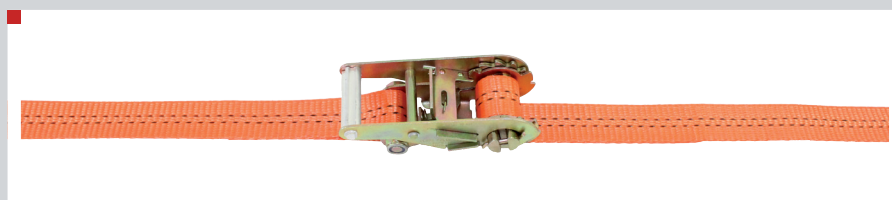
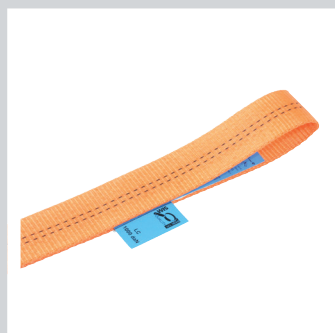
- Normal tension force  $S_{TF}$  240 daN  
for normal hand force  $S_{HF}$  50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 908
- Strap 35 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 2,000 daN from Page 86.

Optional with Quick View Label



| Standard version                              | Short designation               | Item No.       |
|---|---------------------------------|----------------|
| single-part - 3.0 m orange webbing            | WTR 2000 single-part 3.0 orange | <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

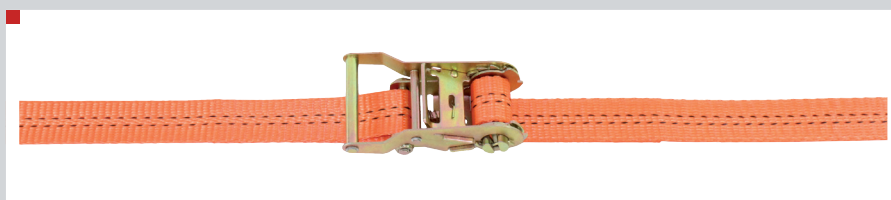
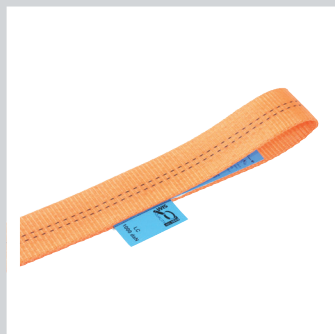
- Normal tension force  $S_{TF}$  200 daN  
for normal hand force  $S_{HF}$  50 daN
- Lashing capacity LC 2,500 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- Tensioning element ratchet 917
- Strap 35 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 2,000 daN from Page 86.

Optional with Quick View Label



| Standard version                              | Short designation               | Item No.       |
|---|---------------------------------|----------------|
| single-part - 3.0 m orange webbing            | WTR 2200 single-part 3.0 orange | <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

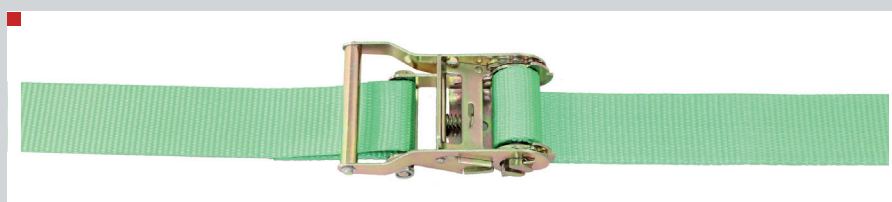
## WISTRA WTR 1500 pressure ratchet lashing strap

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

End-fittings:

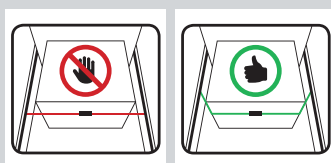


You can find additional end-fittings with a minimum breaking force MBL 1,500 daN from Page 86.



| 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 915
- Strap 25 mm – durable due to PU coated webbing (PES)

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 1,000 daN from Page 86.



| 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

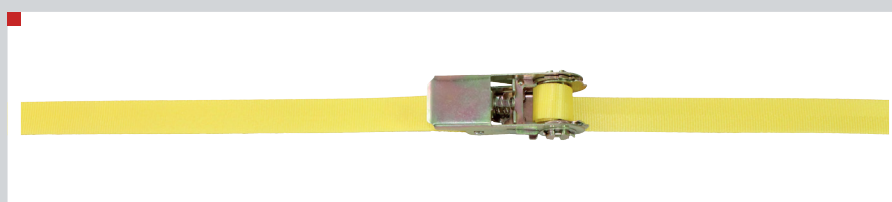
## WISTRA WTR 800 pressure ratchet lashing strap

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

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 800 daN from Page 86.



| 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 WTW 900 Automatic lashing strap

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

End-fittings:

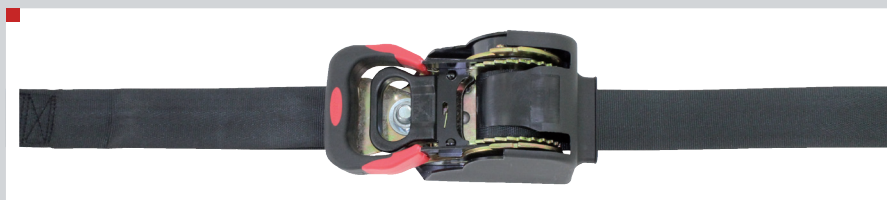


You can find additional end-fittings with a minimum breaking force MBL 800 daN from Page 86.

### WISTRA Information

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

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



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

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

## WISTRA WTW 250 Automatic lashing strap

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

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 250 daN from Page 86.

### WISTRA Information

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



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

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

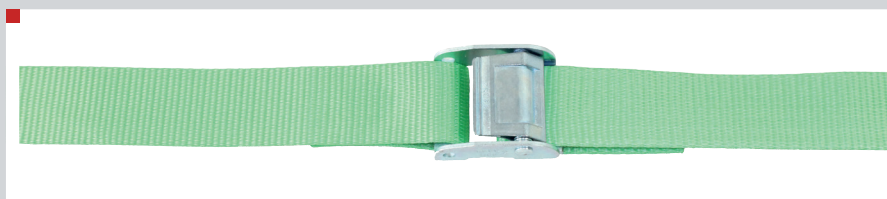
## WISTRA WTK 1000 clamp lock lashing strap

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

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 1,000 daN from Page 86.



| 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

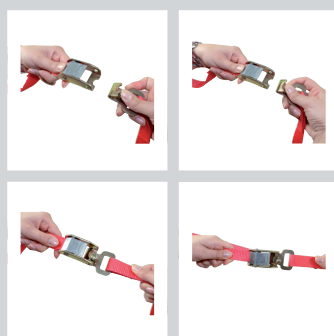
- Lashing capacity LC 300 daN in straight tension
- Manufactured and tested in terms of EN 12195-2: current version
- [Tensioning element clamp lock 605](#)
- Strap 25 mm – durable due to PU coated webbing (PES)

End-fittings:

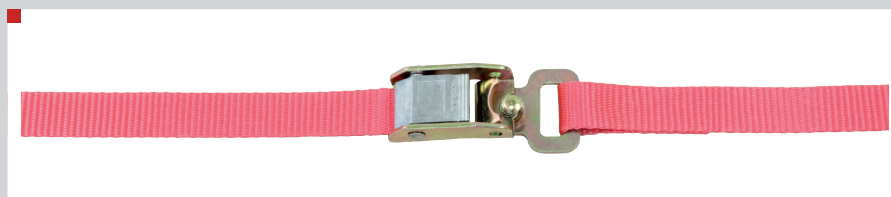


You can find additional end-fittings with a minimum breaking force MBL 600 daN from Page 86.

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

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 500 daN from Page 86.



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

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 350 daN from Page 86.



| 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

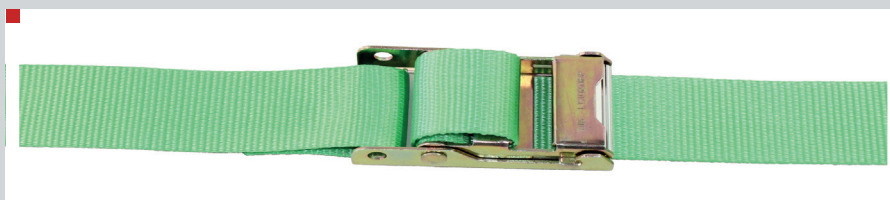
## WISTRA WTS 1000 overcenter lock lashing strap

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

End-fittings:



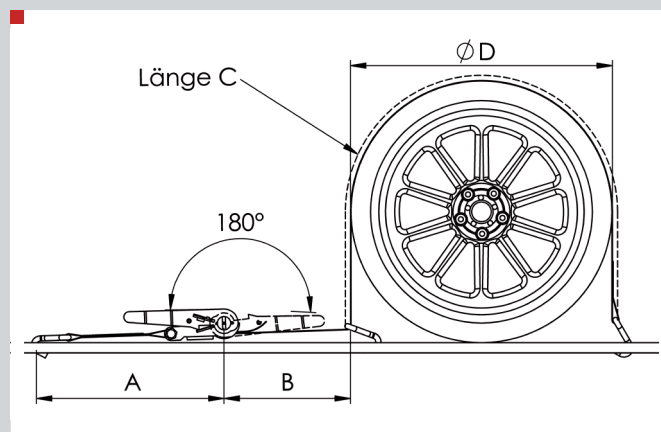
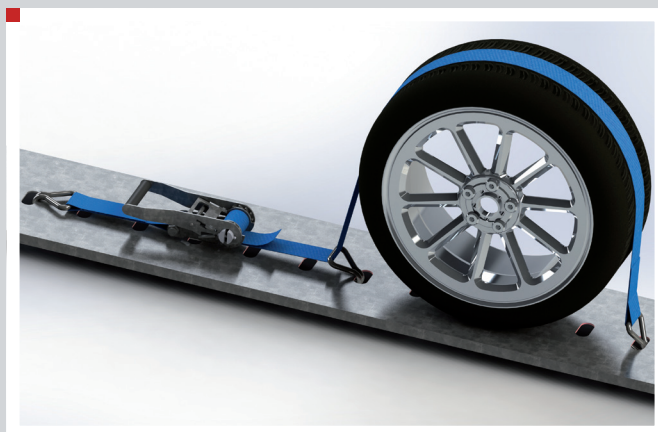
You can find additional end-fittings with a minimum breaking force MBL 1,000 daN from Page 86.



| 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

# Car transportation 3-point lashing straps



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

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

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

Please consider the outer dimension of the tyres when selecting the length of the loose end. If the loose end is too short, not enough fabric might be wound onto the roll shaft, causing the fabric to slide out again. If the fixed end is

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

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

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

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

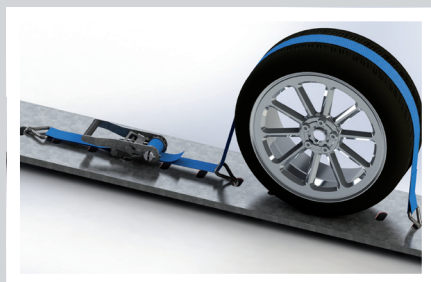
Should the fixed end be hooked in at a greater distance, dimension B enlarges, and the loose end is then only suitable for smaller tyre dimensions.

e.g.

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

## WISTRA WTA 3908 pressure ratchet lashing strap

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



End-fittings:



520



356



354

You can find additional end-fittings with a minimum breaking force MBL 3,000 daN from Page 86.

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

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

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

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

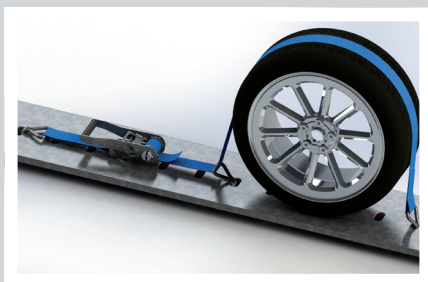
### Strap slider

| Type A35  | Type B50  | Type C50   | Type D50  | Type E35  |
|---|---|--|---|---|
|  |  |  |  |  |

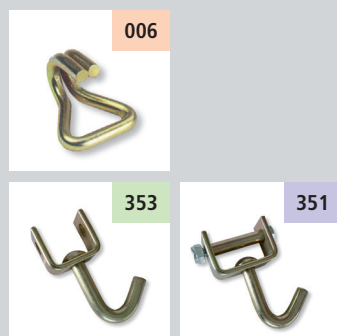
Versions with other end-fittings, other webbing colours, individual property markings or other special requirements on request

## WISTRA WTA 3821 pressure ratchet lashing strap

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



End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 3,000 daN from Page 86.

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

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

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

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

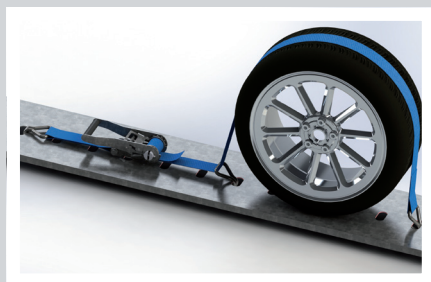
### Strap slider

| Type A50 | Type B50 | Type C50 | Type D50 | Type E50 |
|----------|----------|----------|----------|----------|
|          |          |          |          |          |

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

## WISTRA WTA 3821HQ pressure ratchet lashing strap

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



End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 3,000 daN from Page 86.

With Quick View Label



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

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

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

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

### Strap slider

| Type A50 | Type B50 | Type C50 | Type D50 | Type E50 |
|----------|----------|----------|----------|----------|
|          |          |          |          |          |

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

## WISTRA car transportation pressure ratchet lashing straps

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

### Accessories



Label cover

#### WISTRA WTA 2135 pressure ratchet lashing strap

- Stand version with traverse arch (flemish bend)

#### WISTRA WTA 2235 pressure ratchet lashing strap

- Standard version with rim sling

End-fittings:



You can find additional end-fittings with a minimum breaking force MBL 2,000 daN from Page 86.

### WISTRA WTA 2135 pressure ratchet lashing strap



| Type  | Ratchet | Protection | End-fitting FE | Traverse arch | End-fitting 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 | End-fitting FE | End-fitting central | End-fitting Loose end | Length FE | Length LE | Item No.       |
|-------|---------|------------|----------------|---------------------|-----------------------|-----------|-----------|----------------|
| WTA 2 | 917     | B35        | 536            | 536                 | 015                   | 0.2 m     | 1.5 m     | <b>1350025</b> |
| WTA 2 | 908     | B35        | 371            | 536                 | 015                   | FE        | 1.5 m     | <b>1351235</b> |

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

# WISTRA Motorcycle pressure ratchet lashing straps

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



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

## WISTRA WTA A1

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

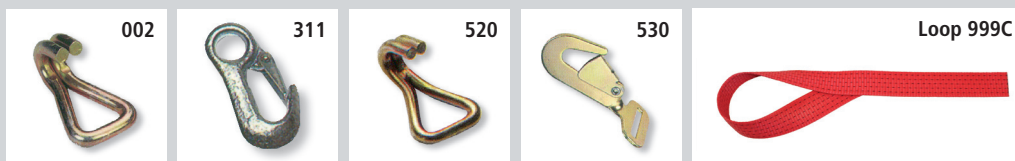
## WISTRA WTA H1

- single-part lashing strap
- FE part with end-fitting ...
- LE part, endless

## WISTRA WTA H2

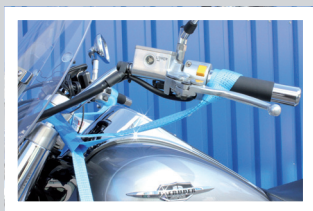
- Single-part lashing strap
- FE part with end-fitting ...
- LE with return loop type C-200 mm

End-fittings:



You can find additional end-fitting from Page 86.

## WISTRA WTA A1



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

## WISTRA WTA H1



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

## WISTRA WTA H2

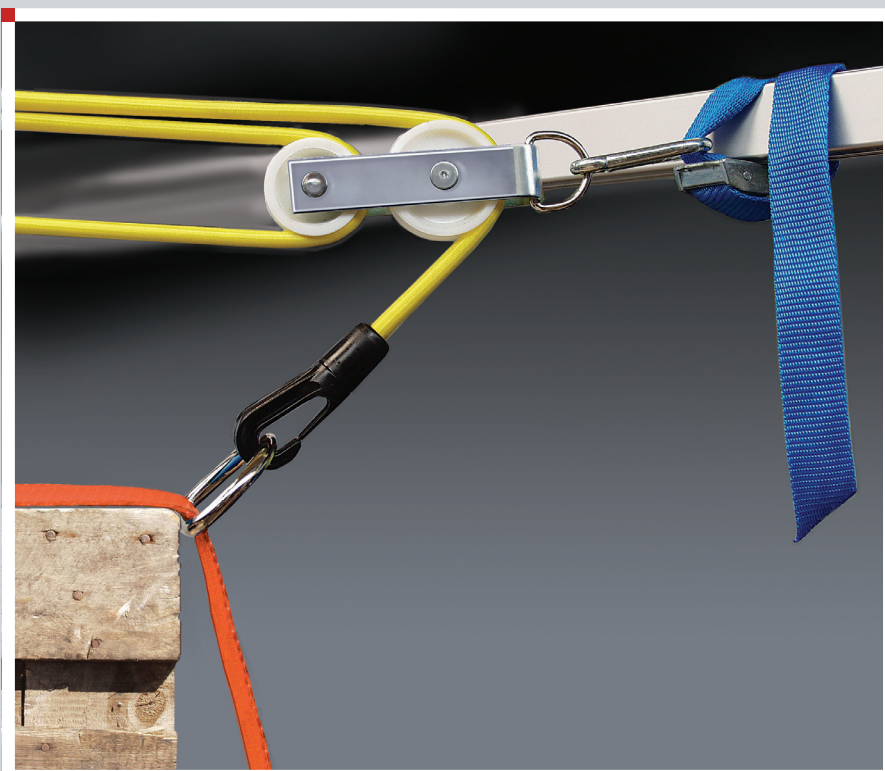


| Type |      | FE End-fitting | LE End-fitting | Hose    | Webbing colour | LC straight tension | Length FE | Length LE | Item No.       |
|------|------|----------------|----------------|---------|----------------|---------------------|-----------|-----------|----------------|
| WTA  | 1335 | 002 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

# 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

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

| Designation   | Unit of quantity | Item No.          |
|---|------------------|-------------------|
| <b>„Ladebox“ set, type A</b><br>Consisting of:<br>20 × WTL 5550-046 FE 0.5 m + LE 7.5 m blue with QuickView label + print LE „Ladepartner“<br>40 × edge protectors red 50 mm heavy load<br>60 × anti-slip mats 200 × 8 × 300 mm<br>2 × round slings 3,000 kg, yellow, 3.0 m circumference   | Set              | <b>190001</b>     |
| <b>„Ladebox“ set, type Construction</b><br>Consisting of:<br>20 × WTL 5550-046 FE 0.5 m + LE 7.5 m blue with QuickView label + print LE „Ladepartner“<br>26 × edge protectors orange, 190 × 190 mm, length approx. 800 mm<br>60 × anti-slip mats 200 × 8 × 300 mm<br>2 × round slings 3,000 kg, yellow, 3.0 m circumference   | Set              | <b>190002</b>     |
| <b>„Ladebox“ for PK 3000</b><br>consisting of:<br>2 × drawer troughs with ball bearing guides<br>2 × plastic containers 600 × 400 × 130 mm  | Set              | <b>1921001421</b> |
| <b>„Ladebox“ spare wheel cradle EK 1000 frame</b><br>Powder coated<br>Height 490 mm, 30 µm +/-10%<br>Without accessories<br>Including clamping claws<br>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><br>Grated, 600 × 400 × 130 mm  | Pieces           | <b>1970305050</b> |
| <b>Steel „Ladebox“ for EK 1000</b><br>1,080 × 450 × 965 mm<br>With 1 × lid, can be slid in at the bottom<br>Standard colour RAL 9016<br>With 2 × PK locks on the sides<br>With 3 × buckles for fastening in the EK 1000<br>2 × drawer troughs with ball bearing guides<br>2 × plastic containers 600 × 400 × 130 mm<br>Load maximum 130 kg in EK 1000<br>Net weight approx. 75 kg | Pieces           | <b>1971701080</b> |



LadeBOX EK1000 (without load securing sets)



LadeBOX insert PK3000

# WISTRA lashing strap accessories

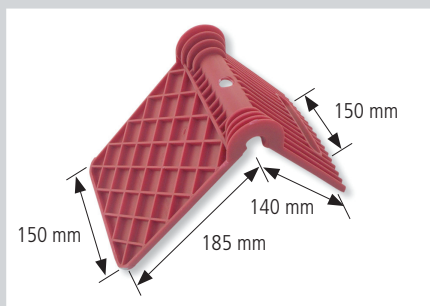
## Edge protection 5500



Material: Plastic  
Colour: black  
Weight: 0.250 kg

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

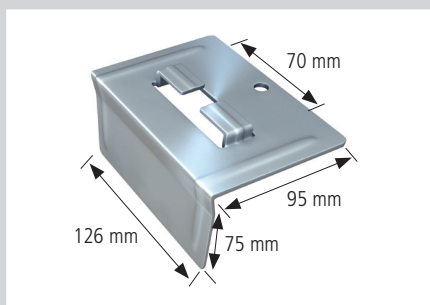
## Edge protection 6660



Material: Plastic  
Colour: red  
Weight: 0.205 kg

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

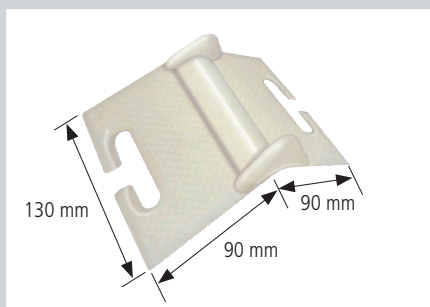
## Edge protection 7000



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

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

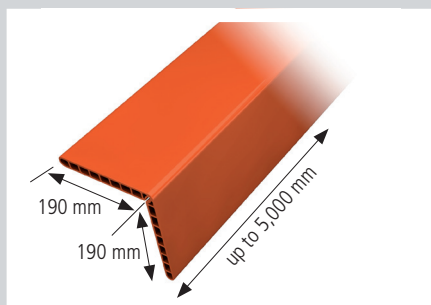
## Edge protection 2200



Material: Polyethylene  
Colour: white  
Weight: 0.060 kg

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

### Edge protection 3000

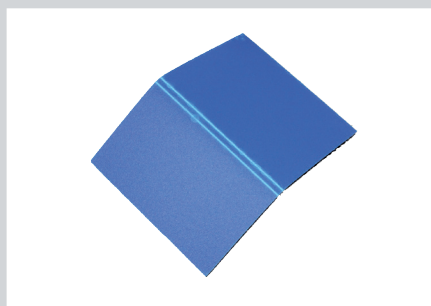


Material: Plastic  
Colour: orange

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 750 mm   | Pieces           | <b>16300040-0750</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 flat profile 3006



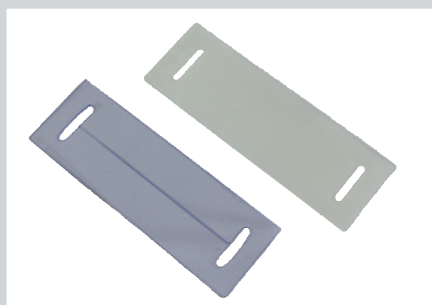
Material: Plastic  
Colour: blue/black

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

| Designation  | Unit of quantity | Item No.              |
|--|------------------|-----------------------|
| Edge protection flat profile 190x190 blue/black 2,000 mm | Pieces           | <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>163006190-4800</b> |

Other lengths available on request

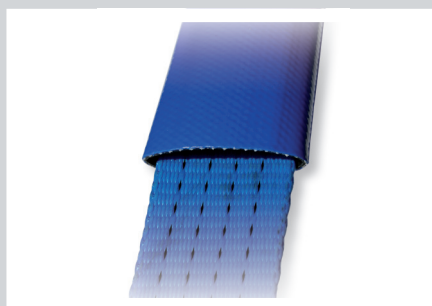
### Ratchet base



Material: Plastic

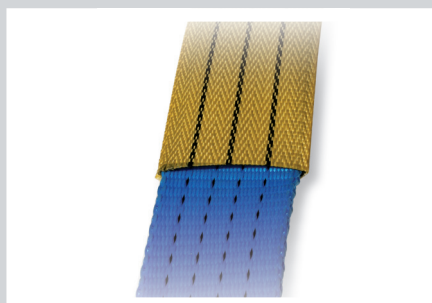
| Designation                                 | Unit of quantity | Item No.      |
|---|------------------|---------------|
| Edge protection/ratchet base 50 mm          | Pieces           | <b>163001</b> |
| Edge protection/ratchet base 50 mm, slotted | Pieces           | <b>163003</b> |

### Edge protection hose, rubberised



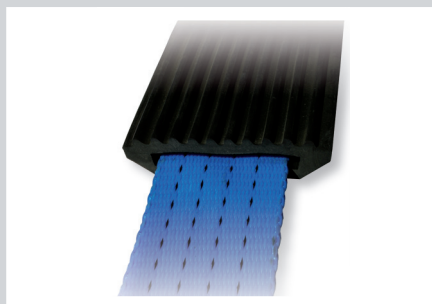
| Designation                                | Unit of quantity | Item No.            |
|--|------------------|---------------------|
| Edge protection hose 35 mm blue rubberised | m                | <b>161021000040</b> |
| Edge protection hose 50 mm blue rubberised | m                | <b>161020000040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

### Edge protection hose, polyester



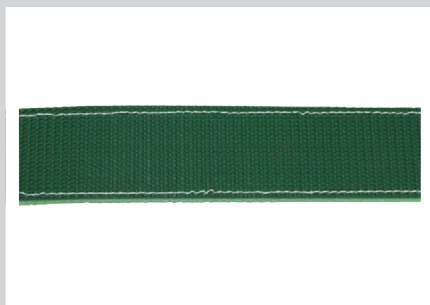
| Designation                                  | Unit of quantity | Item No.            |
|--|------------------|---------------------|
| Edge protection hose 35 mm PES violet        | m                | <b>161021000072</b> |
| Edge protection hose 50 mm PES yellow        | m                | <b>161020000071</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



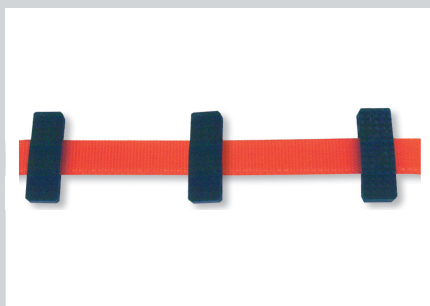
| Designation                                    | Unit of quantity | Item No.            |
|--|------------------|---------------------|
| Edge protection controller 35 mm rubber 700 mm | Pieces           | <b>161035000041</b> |
| Edge protection controller 50 mm rubber 700 mm | Pieces           | <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 rolling-up system for up to 50 mm wide lashing straps



| Designation  | Unit of quantity | Item No.            |
|--|------------------|---------------------|
| Steel lashing strap rolling-up system, black powder-coated | Pieces           | <b>160020000000</b> |
| NIRO lashing strap rolling-up system                       | Pieces           | <b>160020000030</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 on request!

# WISTRA Safeguard load securing nets



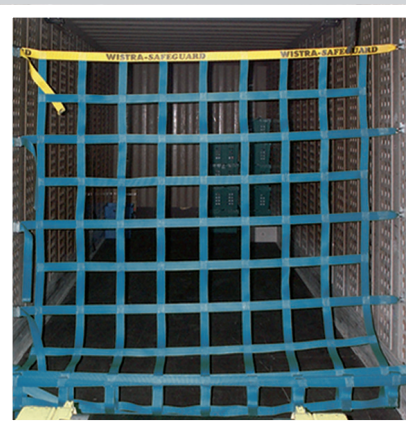
WISTRA GmbH offers load securing nets in their range of products for more than 20 years.

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



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

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



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

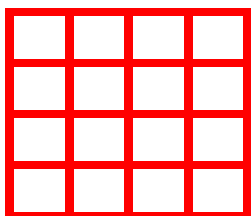
As mentioned earlier, we also manufacture nets individually in quantities from 1 piece upwards.

## Vertical versions

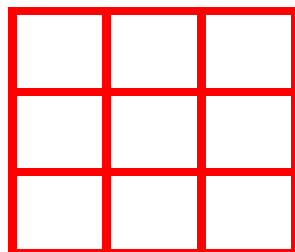


### Standard grid mesh apertures for 25 mm webbing

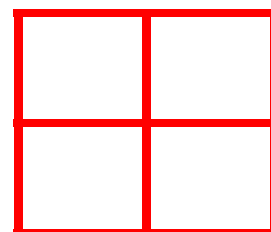
Webbing minimum breaking force 2,000 daN



Mesh aperture 150 mm  
Example size 725 mm x 725 mm



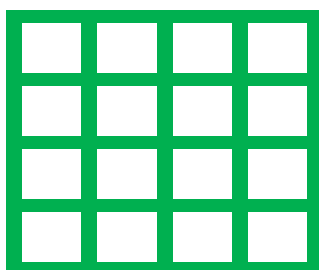
Mesh aperture 250 mm  
Example size 850 mm x 850 mm



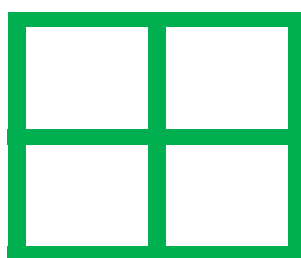
Mesh aperture 350 mm  
Example size 775 mm x 775 mm

### Standard grid mesh apertures for 50 mm webbing

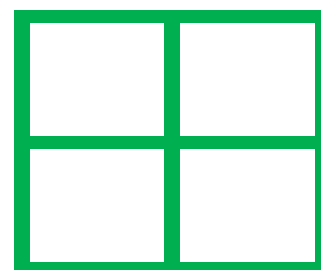
Webbing minimum breaking force 4,000 daN



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



Mesh aperture 350 mm  
Example size 850 mm x 850 mm



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

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

### Webbing colours

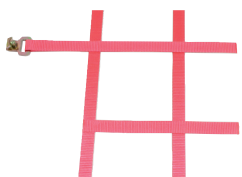


Property marking

IHR NAME

## Side connecting components

25 mm,  
50 mm



Attachment, rigid  
Length - according to specification

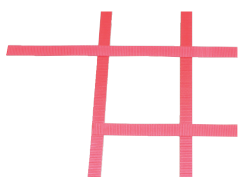
### Type A

with end-fitting (from Page 86)  
e.g. Type A EB025 – 200 mm

### Type A2

with two end-fittings (from Page 86)  
e.g. Type A2 EB025/002 – 200 mm

25 mm,  
50 mm

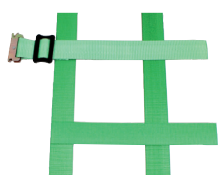


Attachment  
Length - according to specification

### 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)

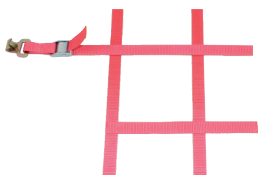
### Type C 806

with end-fitting (from Page 86)  
e.g. Type C EB826 le – 100 mm

### Type C2 806

with two end-fittings (from Page 86)  
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)

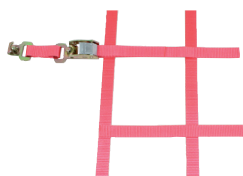
### Type K 805

with end-fitting (from Page 86)  
e.g. Type K 805 EB025 – 250 mm

### Type K2 805

with two end-fittings (from Page 86)  
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)

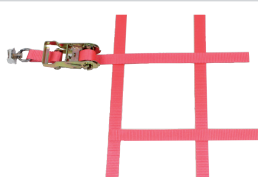
### Type SK 605/025

with end-fitting (from Page 86)  
e.g. Type SK 605/025 EB025 – 300 mm

### Type A2 605/025

with two end-fittings (from Page 86)  
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 (from Page 86)  
e.g. Type R 909 EB379 – 300 mm

### Type R2 906

with two end-fittings (from Page 86)  
e.g. Type R2 909 EB025/002 – 300 mm

50 mm



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

**Type K 907**

with end-fitting (from Page 86)  
e.g. Type K 907 EB826 le – 250 mm

**Type K2 907**

with two end-fittings (from Page 86)  
e.g. Type K2 907 EB826/828 le – 250 mm

50 mm



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

**Type R 916**

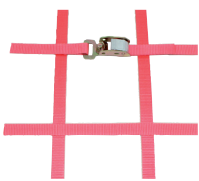
with end-fitting (from Page 86)  
e.g. Type R 916 EB828 le – 300 mm

**Type R2 916**

with two end-fittings (from Page 86)  
e.g. Type R2 916 EB826/828 le – 300 mm

**Central connecting components**

25 mm

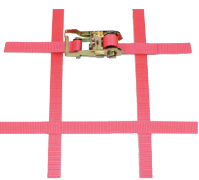


Central quick tensioning device  
with clamp lock 605/025  
Length - according to specification (at least 100 mm) + adjustment range in mm

**Type MSK**

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

25 mm

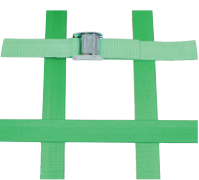


Central tensioning device  
with ratchet 909  
Length - according to specification (at least 100 mm) + adjustment range in mm

**Type MR 909**

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

50 mm

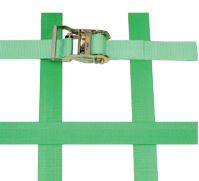


Central tensioning device  
with clamp lock 907  
Length - according to specification (at least 80 mm) + adjustment range in mm

**Type MK 907**

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

50 mm

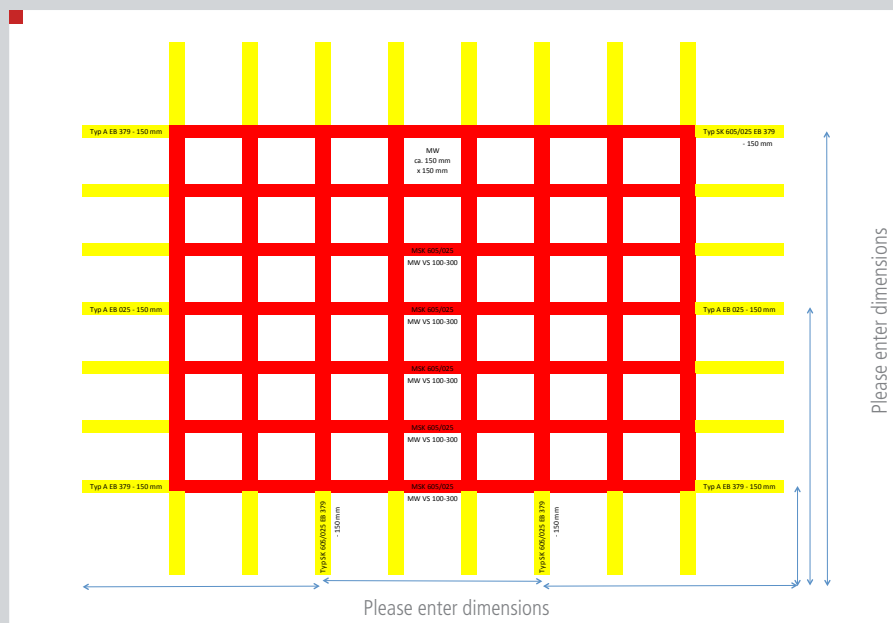


Central tensioning device  
with ratchet 916  
Length - according to specification (at least 120 mm) + adjustment range in mm

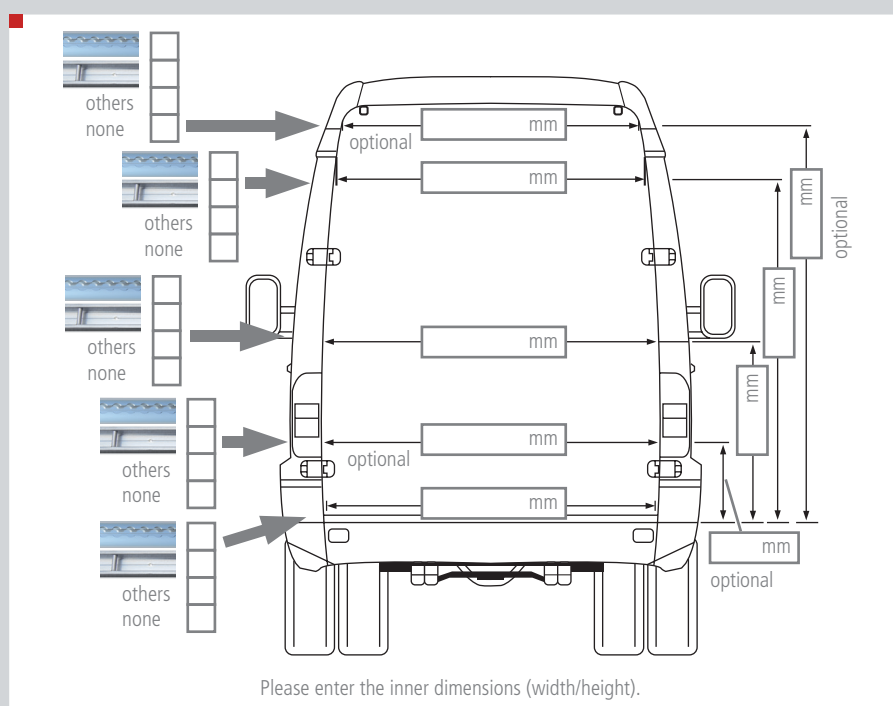
**Type MR 916**

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

## Vertical versions - Ordering template / example



## Safeguard load securing nets for transport vehicles



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

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

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

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

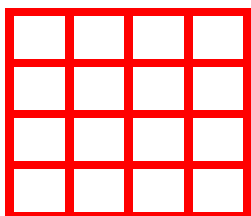
The optional dimensions only apply if several lashing tracks were installed!

## Horizontal versions

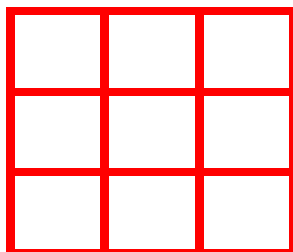


### Standard grid mesh apertures for 25 mm webbing

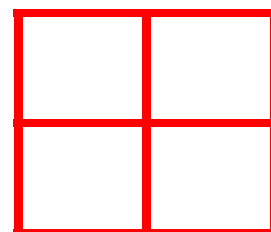
Webbing minimum breaking force 2,000 daN



Mesh aperture 150 mm  
Example size 725 mm x 725 mm



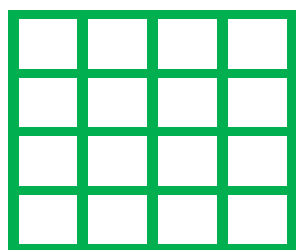
Mesh aperture 250 mm  
Example size 850 mm x 850 mm



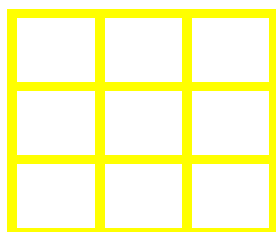
Mesh aperture 350 mm  
Example size 775 mm x 775 mm

### Standard grid mesh apertures for 50 mm webbing

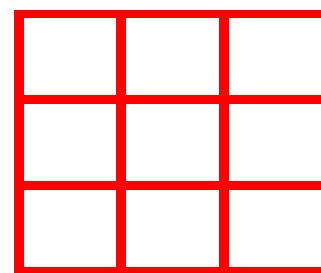
Minimum breaking force of webbing 4,000 daN, 6,000 daN, 7,600 daN



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



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



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

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

### Webbing colours

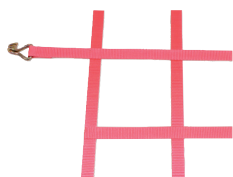


Property marking

IHR NAME

## Side connecting components

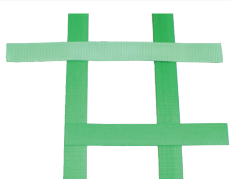
25 mm,  
50 mm



Attachment, rigid  
Length - according to specification \*)

| Type A  | Type A2   |
|---|---|
| with end-fitting (from Page 86)<br>e.g. Type A EB002 – 200 mm | with two end-fittings (from Page 86)<br>e.g. Type A2 EB025/002 – 200 mm |

25 mm,  
50 mm

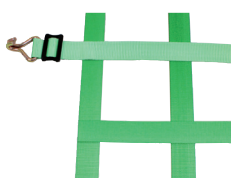


Attachment  
Length - according to specification

| Type B                                       |
|--|
| without end-fitting<br>e.g. Type B – 1000 mm |

For this version you can use fixed ends.

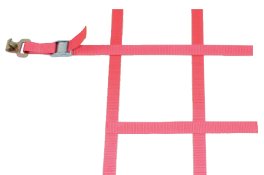
50 mm



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

| Type C 806  | Type C2 806   |
|---|---|
| with end-fitting (from Page 86)<br>e.g. Type C EB007 – 500 mm | with two end-fittings (from Page 86)<br>e.g. Type C2 EB381/007 – 500 mm |

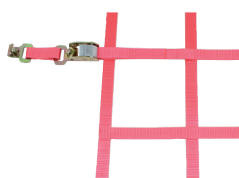
25 mm



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

| Type K 805  | Type K2 805   |
|---|---|
| with end-fitting (from Page 86)<br>e.g. Type K 805 EB025 – 250 mm | with two end-fittings (from Page 86)<br>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  | Type SK2 605/025  |
|--|---|
| with end-fitting (from Page 86)<br>e.g. Type SK 605/025 EB025 – 300 mm | with two end-fittings (from Page 86)<br>e.g. Type SK2 605/02 EB025/002 – 300 mm |

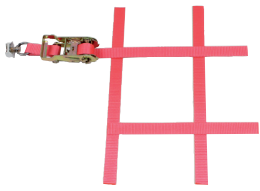
\*)

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

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

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

25 mm

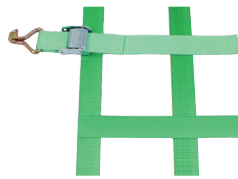


Tensioning device  
with ratchet 909

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

| Type R 909  | Type R2 909   |
|---|---|
| with end-fitting (from Page 86)<br>e.g. Type R 909 EB379 – 300 mm | with two end-fittings (from Page 86)<br>e.g. Type R2 909 EB025/379 – 300 mm |

50 mm

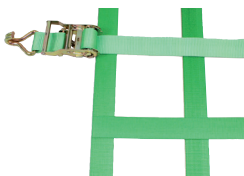


Tensioning device  
with clamp lock 907

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

| Type K 907  | Type K2 907   |
|---|---|
| with end-fitting (from Page 86)<br>e.g. Type K 907 EB007 – 250 mm | with two end-fittings (from Page 86)<br>e.g. Type K2 907 EB007/381 – 250 mm |

50 mm



Tensioning device  
with ratchet 916

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

| Type R 916  | Type R2 916   |
|---|---|
| with end-fitting (from Page 86)<br>e.g. Type R 916 EB007 – 300 mm | with two end-fittings (from Page 86)<br>e.g. Type R2 916 EB007/381 – 300 mm |

50 mm



similar

Tensioning device  
with ratchet 811

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

| Type R 811  | Type R2 811   |
|---|---|
| with end-fitting (from Page 86)<br>e.g. Type R 811 EB006 – 400 mm | with two end-fittings (from Page 86)<br>e.g. Type R2 811 EB006/065 – 400 mm |

50 mm



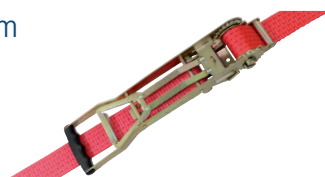
similar

Tensioning device  
with ratchet 814

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

| Type R 814  | Type R2 814   |
|---|---|
| with end-fitting (from Page 86)<br>e.g. Type R 814 EB006 – 400 mm | with two end-fittings (from Page 86)<br>e.g. Type R2 814 EB006/065 – 400 mm |

50 mm



similar

Tensioning device  
with ratchet 818

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

| Type R 818  | Type R2 818   |
|---|---|
| with end-fitting (from Page 86)<br>e.g. Type R 818 EB006 – 500 mm | with two end-fittings (from Page 86)<br>e.g. Type R2 818 EB006/065 – 500 mm |

## WISTRA Safeguard load securing net


**Item No. 27 222 00 000 01**

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

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

Only apply strain on the intended attachment points!

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

May not be used for lifting!

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

## WISTRA Safeguard load securing net



### Item No. 27 213 00 000 00

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

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

Only apply strain on the intended attachment points!

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

May not be used for lifting!

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

## WISTRA Safeguard load securing net 27283

Consisting of:

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

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

LC net attachment point: 400 daN

LC net total: 400 daN

Only apply strain on the intended attachment  
points!

May not be used for lifting!



1



2



3



4

End-fittings:



You can find additional end-fittings  
with a minimum breaking force MBL  
400 daN from Page 86.

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

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

## WISTRA Safeguard load securing net 27281

### Motorcycle seat load securing net



Consisting of:

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

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

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

Material: PES  
elongation < 7%

LC net attachment point: 75 daN  
LC net total: 100 daN

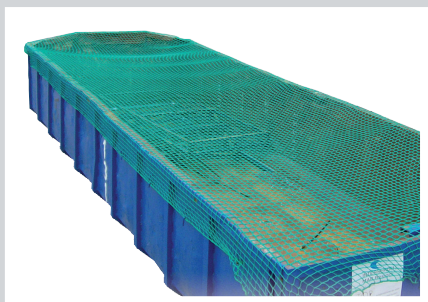
Only apply strain on the intended attachment points!

May not be used for lifting!

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

## WISTRA covering nets

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



| Designation                 | Dimensions    | Unit of quantity | Item No.            |
|-----------------------------|---------------|------------------|---------------------|
| WIS covering net 2 mm MW 30 | 1.4 m x 2.3 m | Pieces           | <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> |



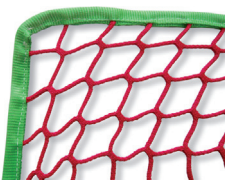


| Designation | Dimensions | Unit of quantity | Item No.             |
|-------------|------------|------------------|----------------------|
| Rubber rope | Ø 6 mm     | m                | <b>2756000G0000</b>  |
| Rubber rope | Ø 12 mm    | m                | <b>27512000G0000</b> |

# 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.



| Name   | Item No.               |
|--|------------------------|
|  Type 1 with sew-up edge rope   | <b>275450622833</b>    |
|  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 | <b>275450612833</b>    |
|  Type 3 enclosed all-round with a belt strap  | <b>275450632833</b>    |
|  Single-part ratchet lashing strap WTR 1000 single-part 2.0 m with a loop on the ratchet   | <b>119090200020005</b> |
|  GFK telescope bar for simple handling with interchangeable special hooks<br>Application range 1,500 - 2,800 mm                                     | <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><br>Version for <a href="#">side lashing rails</a><br>- for 22 octabins,<br>- individual weight up to 1,200 kg<br><br>consisting of:<br>16 pieces longitudinal bars<br>11 pieces Safecon decking beams<br>2 pieces Safecon diagonal straps, blue<br>1 piece Safecon lashing straps, yellow<br>8 pieces Safecon enlacement straps, yellow<br>8 pieces Safecon enlacement straps, red<br>2 pieces Safecon enlacement straps, orange   | <b>200003</b> |
| <b>WIS SAFECON system code XL - 2480 mm</b><br>Version for <a href="#">floor lashing points</a><br>- for 22 octabins,<br>- individual weight up to 1,200 kg<br><br>consisting of:<br>16 pieces longitudinal bars<br>11 pieces Safecon decking beams<br>2 pieces Safecon diagonal straps, blue<br>1 piece Safecon lashing straps, yellow<br>8 pieces Safecon enlacement straps, yellow<br>8 pieces Safecon enlacement straps, red<br>2 pieces Safecon enlacement straps, orange | <b>200001</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!

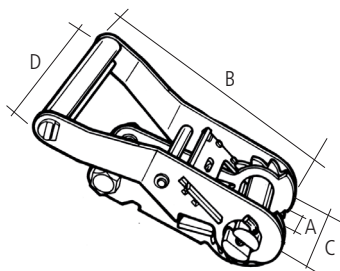
### Simple application

- 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<br>Material: steel, surface yellow powder coated<br>Weight: 6.0 kg | Pieces           | <b>160060000015</b> |

# Ratchet

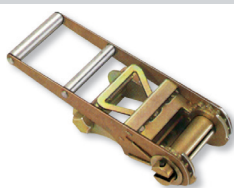


A = Webbing width  
 B = Overall length  
 C = Overall width  
 D = Width of handle  
 FB = Breaking force

<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. 128220000013

Webbing width: 50 mm  
 Overall length: 370 mm  
 Overall width: 90 mm  
 Width of handle: 110 mm  
 ST<sub>F1</sub>): 500 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



Minimum breaking  
 force: 5,000 daN

## Item No. 128210000013

Webbing width: 50 mm  
 Overall length: 185 mm  
 Overall width: 100 mm  
 Width of handle: 95 mm  
 ST<sub>F1</sub>): 240 daN

50 mm

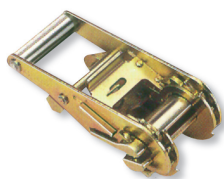


Minimum breaking  
 force: 2,000 daN

## 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. 129080000013**

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

35 mm

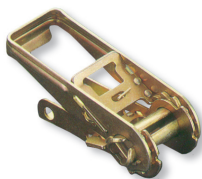


Minimum breaking  
force: 2,000 daN

**Item No. 129170000013**

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. 129090000013**

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. 129090000030**

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

25 mm



Minimum breaking  
force: 1,500 daN

**Item No. 129150000013**

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

25 mm

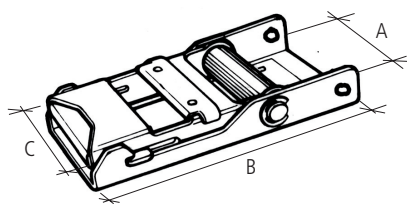


Minimum breaking  
force: 800 daN

**Item No. 129060000013**

Webbing width: 25 mm  
Overall length: 115 mm  
Overall width: 53 mm  
Width of handle: 35 mm  
STF<sup>®</sup>: 160 daN

# Overcenter locks

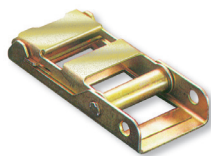


A = Webbing width  
B = Overall length  
C = Overall width  
FB = Breaking force

<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

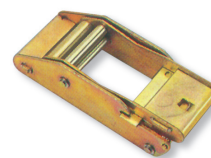


Minimum breaking  
force: 700 daN

**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

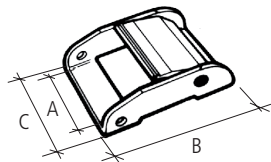
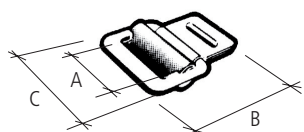


Minimum breaking  
force: 1,450 daN

**Item No. 129700000030**

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

# Clamp locks



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

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

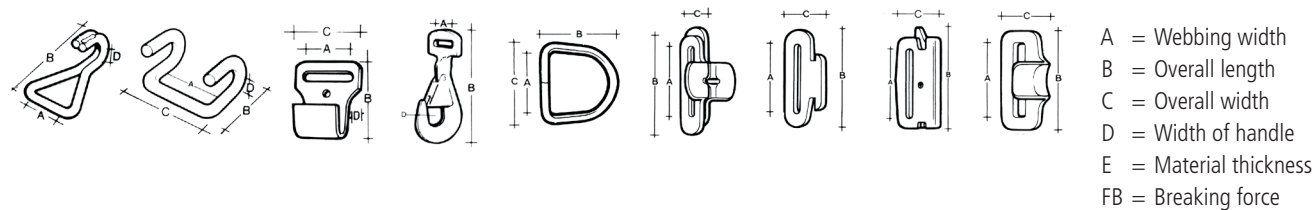


Minimum breaking  
force: 350 daN

**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. 140000006700**

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. 140000006600**

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. 140000006800**

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

### 50 mm Pointed hook

Minimum breaking  
force: 5,000 daN



#### Item No. 140000000600

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

### 50 mm Pointed hook

Minimum breaking  
force: 3,000 daN



#### Item No. 140000000700

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

### 50 mm Pointed hook cropped

Minimum breaking  
force: 5,000 daN



#### Item No. 140000004600

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

### 50 mm Single finger pointed hook

Minimum breaking  
force: 5,000 daN



#### Item No. 140000001400

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

### 50 mm flat hook

Minimum breaking  
force: 5,000 daN



#### Item No. 140000001300

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

### 50 mm flat hook

Minimum breaking  
force: 3,000 daN



#### Item No. 140000001200

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

### 50 mm Pointed hook with hook safety

Minimum breaking  
force: 5,000 daN



#### Item No. 14000002060001

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

### 50 mm Hook with safety ring

Minimum breaking  
force: 4,000 daN



#### Item No. 140000000800

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

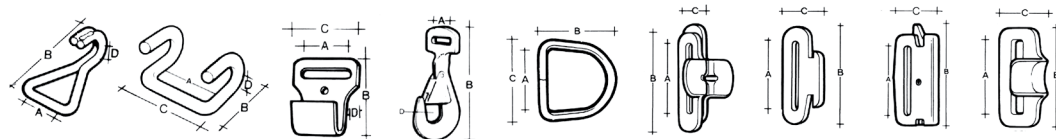
### 50 mm Pointed hook with web

Minimum breaking  
force: 5,000 daN



#### Item No. 140000030600

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



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

Supply of locks and end-fittings subject to dimensional deviations

50 mm

Triangle spring  
hook

Minimum breaking  
force: 5,000 daN



**Item No. 140000007500**

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

### 50 mm D-ring

Minimum breaking  
force: 1,700 daN



#### Item No. 140000070500

Webbing width: 50 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: 15.5 mm

### 50 mm Pointed hook for Ratchet 811 + 814

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

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

### 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

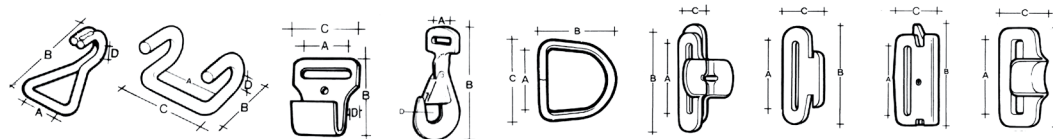
### 35 mm Pointed hook

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



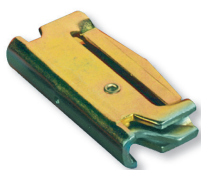
A = Webbing width  
 B = Overall length  
 C = Overall width  
 D = Width of handle  
 E = Material thickness  
 FB = Breaking force

Supply of locks and end-fittings subject to dimensional deviations

50 mm

End-fitting for  
Anchor combi  
lashing tracks

Minimum breaking  
force: 1,500 daN



**Item No. 140000082600**

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

50 mm

End-fitting for  
Anchor combi  
lashing tracks

Minimum breaking  
force: 2,000 daN



**Item No. 140000082200**

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

50 mm

End-fitting for  
Anchor combi  
lashing tracks

Minimum breaking  
force: 2,000 daN



**Item No. 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



**Item No. 140000087100**

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

50 mm

End-fitting for  
Keyhole

Minimum breaking  
force: 1,500 daN



**Item No. 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: 64 mm  
Overall width: 46 mm

**25 mm**

Airline end-fitting

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

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

**50 mm**

Airline end-fitting

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

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

**35 mm**

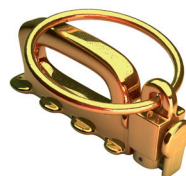
Airline end-fitting

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

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

**50 mm**

Airline end-fitting

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

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

**35 mm**

Pointed hook

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

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

**35 mm**

Single-finger hook

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

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

**35 mm**

Single-finger hook

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

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

**35 mm**

Claw hook

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

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

**35 mm**

Spring hook

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

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

**35 mm**

D-ring

Minimum breaking  
force: 3,000 daN**Item No. 140000001500**

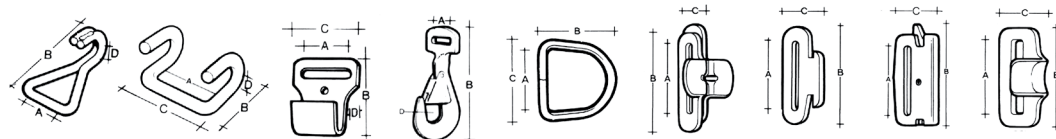
Webbing width: 35 mm  
Overall length: 85 mm  
Overall width: 60 mm  
Material thickness: 8 mm

**35 mm**

Spring hook

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

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



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

Supply of locks and end-fittings subject to dimensional deviations

25 mm

Pointed hook

Minimum breaking  
 force: 1,500 daN



25 mm

S hook

Minimum breaking  
 force: 500 daN



25 mm

S hook

Minimum breaking  
 force: 800 daN



**Item No. 14000000200**

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

**Item No. 140000072500**

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

**Item No. 140000072600**

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

25 mm

Flat hook for  
 Keyhole lashing track

Minimum breaking  
 force: 1,300 daN



25 mm

Spring hook

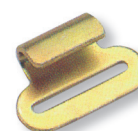
Minimum breaking  
 force: 1,360 daN



25 mm

flat hook

Minimum breaking  
 force: 340 daN



**Item No. 140000002500**

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

**Item No. 140000020100**

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

**Item No. 140000021300**

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

25 mm

Claw hook

Minimum breaking force:  
 No designation



25 mm

Sort-rack  
 flat hook

Minimum breaking  
 force: 500 daN



25 mm

Platform hook

Minimum breaking  
 force: 250 daN



**Item No. 140000052500**

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

**Item No. 140000039000**

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

**Item No. 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. 140000031500**

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 Ø x 4 =  
 Loop length

## Version B

Bolt loop with loop protection



### Item No. 14999B

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

## Version C

Return loop



### Item No. 14999C

Loop length: according to specification

## Version D

Return loop with loop protection

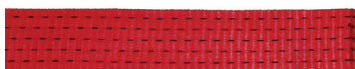


### Item No. 14999D

Loop length: according to specification

## Version K

smoothly cut



### Item No. 14999K

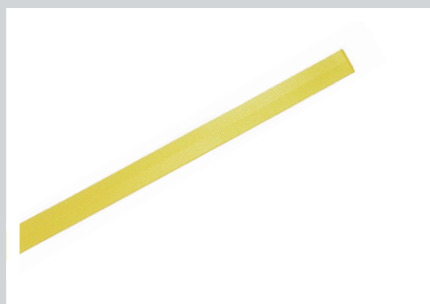
## Version I

bevelled, smoothly cut



### Item No. 14999I

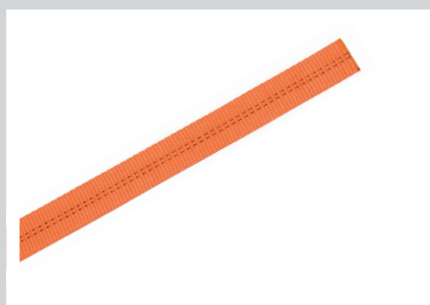
## 25 mm webbing



Roll form

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

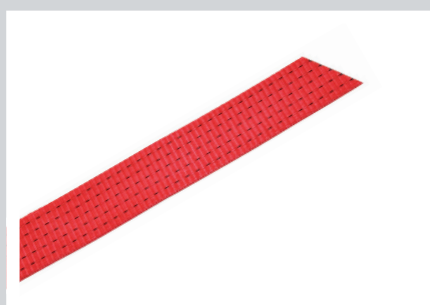
## 35 mm webbing



Roll form

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

## 50 mm webbing



Roll form

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

Other webbing colours available on request.

# WISTRA One-way lashings

## WIS hoop

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

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



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

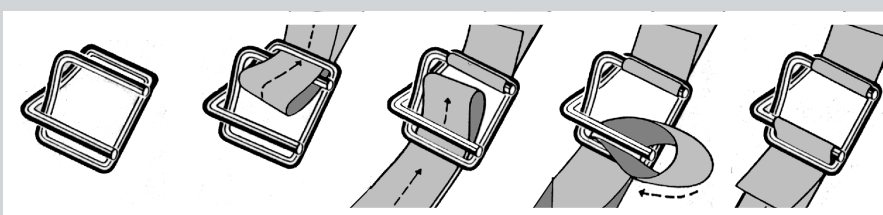


| Designation     | for webbing width | Unit of quantity | Item No.     |
|-----------------|-------------------|------------------|--------------|
| WIS buckle B-3  | 9 mm              | 1,000 pieces/box | 420300000012 |
| WIS buckle B-4  | 13 mm             | 1,000 pieces/box | 420400000012 |
| WIS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



with cutting device

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



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

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



Webbing

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



Buckle

| Designation     | Width | Breaking force | Unit of quantity | Item No.            |
|-----------------|-------|----------------|------------------|---------------------|
| Key-Lock buckle | 50 mm | 2,000 daN      | 50 pieces        | <b>411800000015</b> |

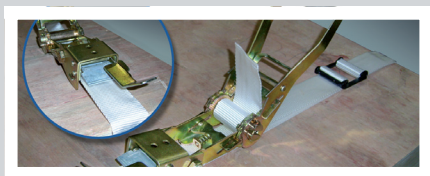


Hand tensioner

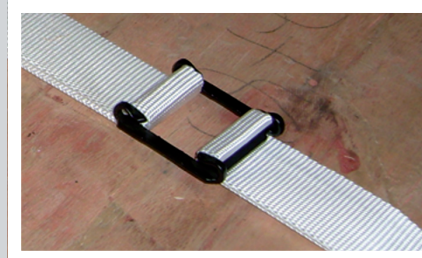
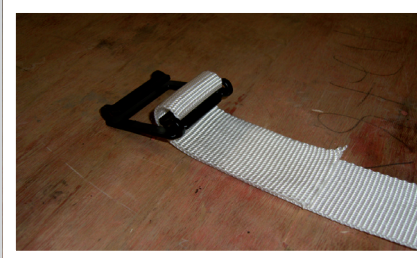
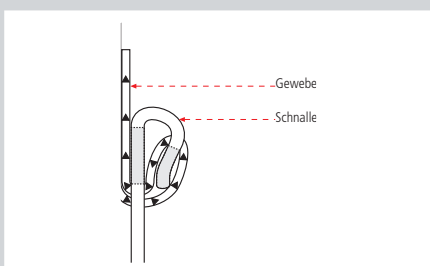


Hand tensioner  
Type AVT 50

| 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



# Lifting technology

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

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

## WIS Operating Manual

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

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

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

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

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

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

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

## Selection of the right lifting equipment / load securing devices

- The carrying capacity of the lifting equipment may not be exceeded.
- Lifting slings and round slings are not suitable for loads with sharp edges without the use of additional edge protectors. Damage must be avoided.
- The data of the goods to be lifted must be known: Weight as well as centre of gravity - carrying capacity of the lifting points - note the angle of inclination - observe possible bending of the load.
- Secure seating of the lifting equipment - slipping or uncoupling can lead to the load dropping or tilting.
- Use only sufficiently dimensioned and connections between the lifting point and the load securing device.
- The load securing devices are stressed differently for symmetrical or unsymmetrical loads. The inclination angle may not exceed 60°.
- When selecting the length, observe that the carrying capacity is different for differing types of lifting equipment.

- Observe usable length and material for different lifting equipment - differing lengths or stretch characteristics can lead to an asymmetrical load distribution.
- The crane or lifting device must be suitable for the lifting process.
- For lifting slings the maximum loop opening of 20° (bearing width (e.g. of the crane hook) x 3.5 = minimum loop length) may not be exceeded.
- Lifting slings and round slings must be attached so that they carry the load over the full width.
- Never twist or knot round slings or lifting slings.
- Labels must be present and legible as a matter of principle.
- You will find the following data on the label: Nominal carrying capacity, material, manufacturer identification, tracking code, specification of the applicable standard, date of manufacture, length, CE mark.

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






## Round slings



· Figure 1:7

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

## Carrying capacity WLL for different sling types

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






## Lifting slings



· Figure 1:7

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

## Carrying capacity WLL for different sling types

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

# Lashing straps - stagecraft

## WISTRA WTR 5000 pressure ratchet lashing strap – Stagecraft

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



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

## WISTRA WTR 4000 pressure ratchet lashing strap – Stagecraft

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



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

## WISTRA WTR 2000 pressure ratchet lashing strap – Stagecraft

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



| Standard version                     | Short designation                  | Item No.       |
|--------------------------------------|------------------------------------|----------------|
| single-part – 6.0 m black webbing BT | WTR 2000- single-part 6.0 black BT | <b>1350104</b> |

## WISTRA WTR 1000 pressure ratchet lashing strap – Stagecraft

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



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

## WISTRA WTK 400 clamp lock lashing strap – Stagecraft

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



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

## Lifting technology - Stagecraft

### Round slings - Stagecraft

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



· Figure 1:7

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

## Webbing loops - Stagecraft

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



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

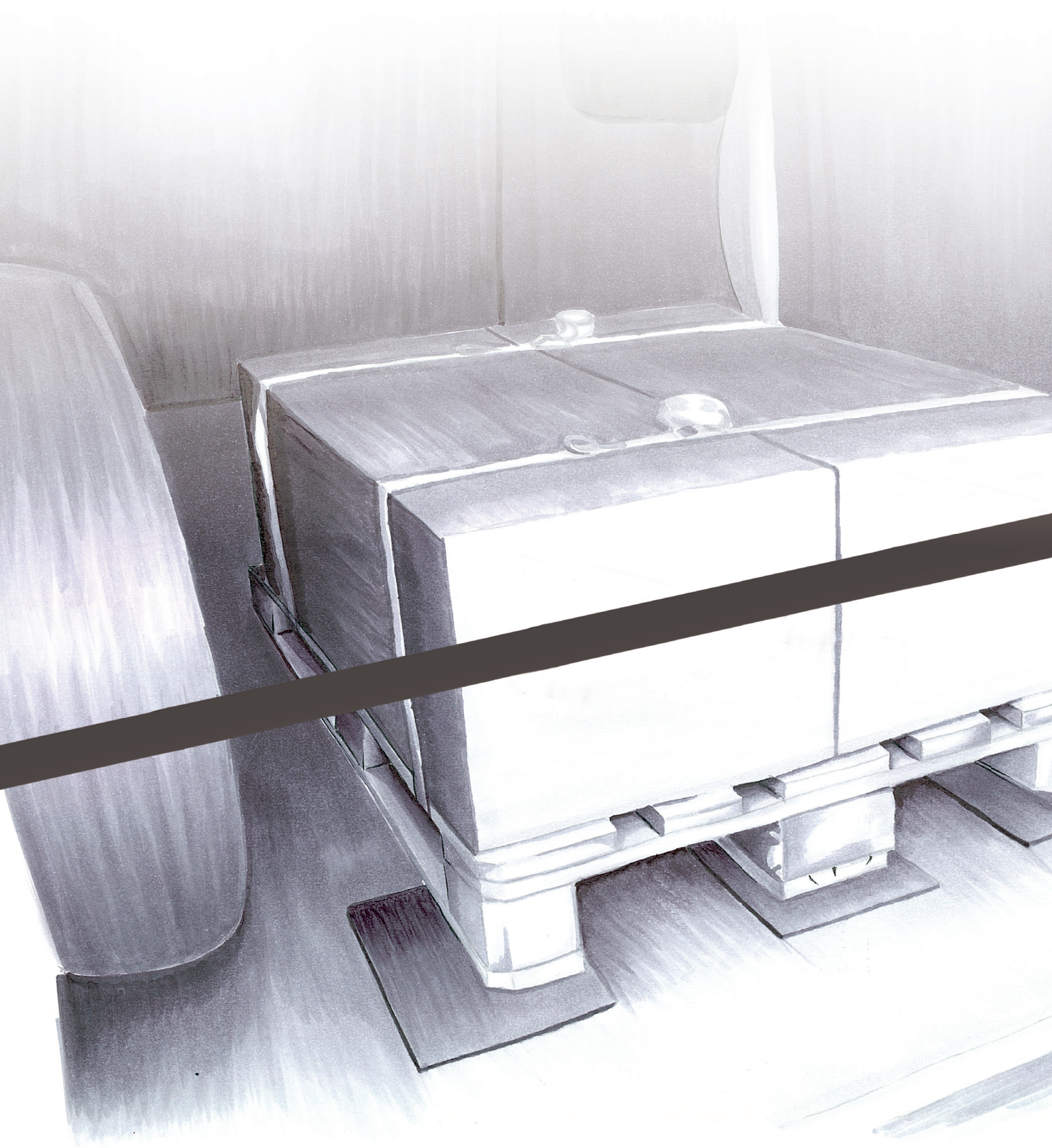
## Lifting slings - Stagecraft

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



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

# Mechanical load securing





- With our WISTRA products in the area of mechanical load protection 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.

# Airline lashing tracks



The WISTRA airline lashing tracks as well as the accessories are subjected to permanent material and quality tests.

With our constantly expanding design variants, we can offer our customers airline lashing tracks for the most varied applications in transport vehicles, trailers and boxes.

An extensive offer of lashing straps, load securing nets, safeguard, shoring and clamping beam systems, garment transport rails as well as attachment systems and various end caps round off our range.

The WISTRA airline lashing tracks range includes designs with surface finishes like powder or anodised coatings as well as untreated surfaces. Make your selection based on your future utilisation.

On the next pages you will find already processed versions in the standard range with countersunk holes every 25 mm or every 75 mm.

Special solutions and designs are also available on request.

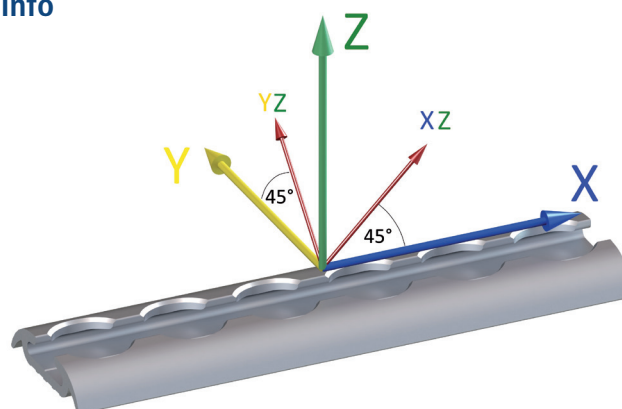
We purposely do not state any standard strength values. The LC values stated for the respective designs for single and double-fittings are determined on our in-house test stand with the stated attachments.

Please keep in mind that the type of connection (screws, rivets, adhesive, etc.) as well as the solidity of the base material (struts, beams, sheet metal, etc.) are decisive for the installation of the airline lashing tracks.

The type of lashing strap and the type of end-fitting (single, double or quadruple) as well as the respective angle are also decisive for the application.

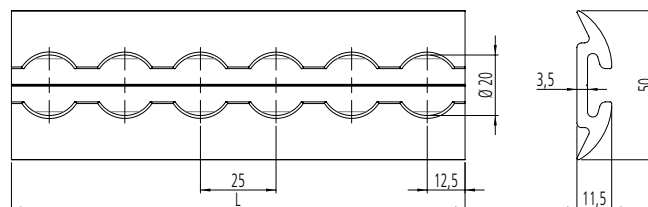
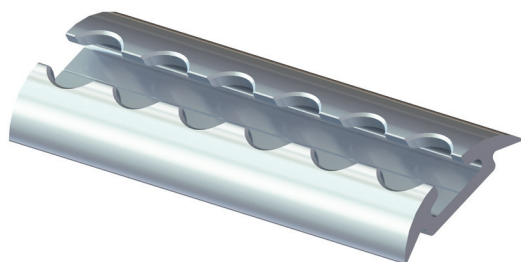
Our sales team will gladly assist you with the right selection.

## WISTRA Info



## Aluminium airline lashing track 5503

Weight: 700 g/m



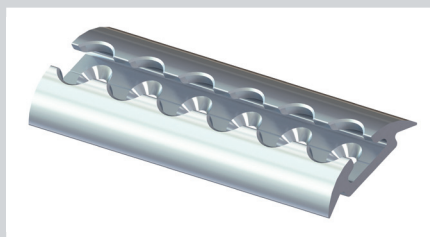
| LC Lashing Capacity |         |           |
|---------------------|---------|-----------|
| WIS end-fitting     | 382     | 380       |
| Z 90°               | 500 daN | 1,000 daN |
| X-Z 45°             | 500 daN | 1,000 daN |
| Y-Z 45°             | 400 daN | 900 daN   |

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

| Designation                | length   | Item No. uncoated    | Item No. anodised    |
|----------------------------|----------|----------------------|----------------------|
| Airline lashing track 5503 | 500 mm   | <b>21550320-0500</b> | <b>21550325-0500</b> |
| Airline lashing track 5503 | 1,000 mm | <b>21550320-1000</b> | <b>21550325-1000</b> |
| Airline lashing track 5503 | 1,975 mm | <b>21550320-1975</b> | <b>21550325-1975</b> |
| Airline lashing track 5503 | 2,000 mm | <b>21550320-2000</b> | <b>21550325-2000</b> |
| Airline lashing track 5503 | 3,000 mm | <b>21550320-3000</b> | <b>21550325-3000</b> |
| Airline lashing track 5503 | 6,000 mm | <b>21550320-6000</b> | <b>21550325-6000</b> |

with 6.5 mm countersunk hole – every 25 mm

Weight: 670 g/m



| Designation                                       | length   | Item No.                |
|---|----------|-------------------------|
| Airline lashing track 5503B25 untreated           | 1,975 mm | <b>21550320B25-1975</b> |
| Airline lashing track 5503B25 untreated           | 3,000 mm | <b>21550320B25-3000</b> |
| Airline lashing track 5503B25 untreated           | 6,000 mm | <b>21550320B25-6000</b> |
| Airline lashing track 5503B25 anodised            | 1,975 mm | <b>215503B25-1975</b>   |
| Airline lashing track 5503B25 anodised            | 3,000 mm | <b>215503B25-3000</b>   |
| Airline lashing track 5503B25 anodised            | 6,000 mm | <b>215503B25-6000</b>   |
| Airline lashing track 5503B25 black powder-coated | 1,975 mm | <b>21550315B25-1975</b> |
| Airline lashing track 5503B25 black powder-coated | 3,000 mm | <b>21550315B25-3000</b> |
| Airline lashing track 5503B25 black powder-coated | 6,000 mm | <b>21550315B25-6000</b> |

## End caps for airline lashing track 5503



**Item No. 215106501240**

Plastic, grey RAL 7001  
Unit of quantity: Pieces



**Item No. 215106501540**

Plastic, black  
Unit of quantity: Pieces



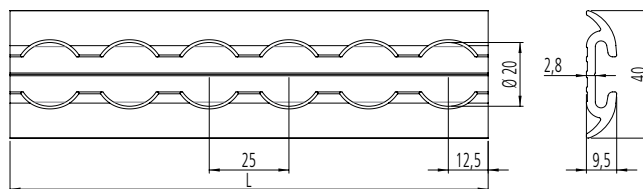
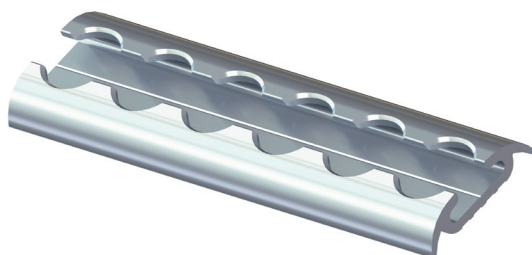
**Item No. 215106001540**

Clicker without screws  
Plastic, black  
Unit of quantity: Pieces

Other designs or special lengths on request.

## Aluminium airline lashing track 5513 – slim version

Weight: 420 g/m



## LC Lashing Capacity

| WIS end-fitting | 382     | 380     |
|-----------------|---------|---------|
| Z 90°           | 600 daN | 600 daN |
| X-Z 45°         | 500 daN | 500 daN |
| Y-Z 45°         | 350 daN | 400 daN |

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

| Designation                | length   | Item No. uncoated    | Item No. anodised  |
|----------------------------|----------|----------------------|--------------------|
| Airline lashing track 5513 | 500 mm   | <b>21551320-0500</b> | <b>auf Anfrage</b> |
| Airline lashing track 5513 | 1,000 mm | <b>21551320-1000</b> | <b>auf Anfrage</b> |
| Airline lashing track 5513 | 1,975 mm | <b>21551320-1975</b> | <b>auf Anfrage</b> |
| Airline lashing track 5513 | 2,000 mm | <b>21551320-2000</b> | <b>auf Anfrage</b> |
| Airline lashing track 5513 | 3,000 mm | <b>21551320-3000</b> | <b>auf Anfrage</b> |

## End cap for airline lashing track 5513



## Item No. 225113001540

Clicker without screws

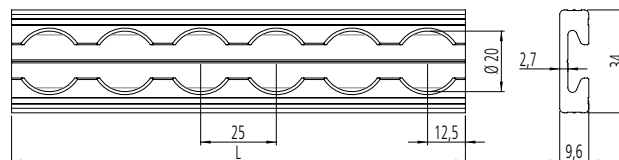
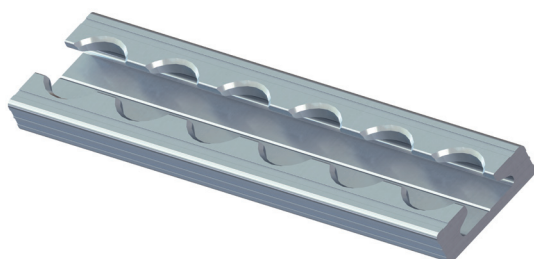
Plastic, black

Unit of quantity: Pieces

Other designs or special lengths on request.

## Aluminium airline lashing track 5504

Weight: 540 g/m



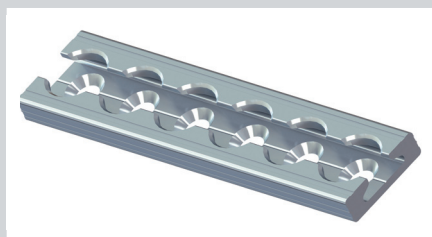
| LC Lashing Capacity |         |         |
|---------------------|---------|---------|
| WIS end-fitting     | 382     | 380     |
| Z 90°               | 500 daN | 500 daN |
| X-Z 45°             | 500 daN | 500 daN |
| Y-Z 45°             | 400 daN | 400 daN |

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

| Designation                | length   | Item No. untreated   | Item No. anodised    |
|----------------------------|----------|----------------------|----------------------|
| Airline lashing track 5504 | 500 mm   | <b>21550420-0500</b> | <b>21550425-0500</b> |
| Airline lashing track 5504 | 1,000 mm | <b>21550420-1000</b> | <b>21550425-1000</b> |
| Airline lashing track 5504 | 1,975 mm | <b>21550420-1975</b> | <b>21550425-1975</b> |
| Airline lashing track 5504 | 2,000 mm | <b>21550420-2000</b> | <b>21550425-2000</b> |
| Airline lashing track 5504 | 3,000 mm | <b>21550420-3000</b> | <b>21550425-3000</b> |
| Airline lashing track 5504 | 6,000 mm | <b>21550420-6000</b> | <b>21550425-6000</b> |

with 6.5 mm countersunk hole – every 25 mm

Weight: 515 g/m

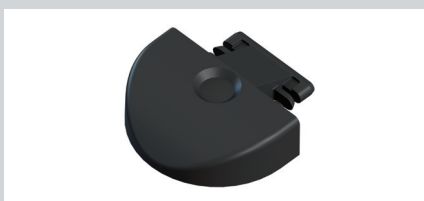


| Designation                                       | length   | Item No.                |
|---|----------|-------------------------|
| Airline lashing track 5504B25 untreated           | 1,975 mm | <b>21550420B25-1975</b> |
| Airline lashing track 5504B25 untreated           | 3,000 mm | <b>21550420B25-3000</b> |
| Airline lashing track 5504B25 untreated           | 6,000 mm | <b>21550420B25-6000</b> |
| Airline lashing track 5504B25 anodised            | 1,975 mm | <b>215504B25-1975</b>   |
| Airline lashing track 5504B25 anodised            | 3,000 mm | <b>215504B25-3000</b>   |
| Airline lashing track 5504B25 anodised            | 6,000 mm | <b>215504B25-6000</b>   |
| Airline lashing track 5504B25 black powder-coated | 1,975 mm | <b>21550415B25-1975</b> |
| Airline lashing track 5504B25 black powder-coated | 3,000 mm | <b>21550415B25-3000</b> |
| Airline lashing track 5504B25 black powder-coated | 6,000 mm | <b>21550415B25-6000</b> |

## End caps for airline lashing track 5504

**Item No. 21510341040**

Plastic, grey RAL 7001  
Unit of quantity: Pieces

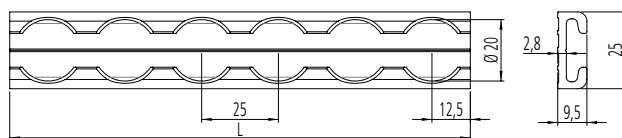
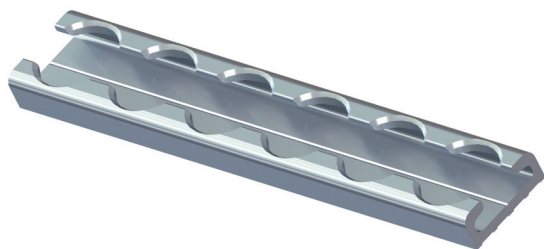
**Item No. 215103001540**

Clicker without screws  
Plastic, black  
Unit of quantity: Pieces

Other designs or special lengths on request.

## Aluminium airline lashing track 5514 – slim version

Weight: 290 g/m

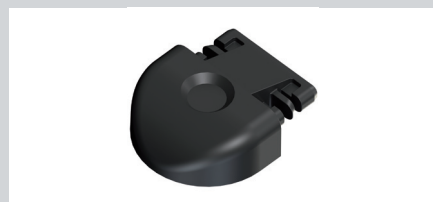


| LC Lashing Capacity |         |         |
|---------------------|---------|---------|
| WIS end-fitting     | 382     | 380     |
| Z 90°               | 450 daN | 450 daN |
| X-Z 45°             | 350 daN | 400 daN |
| Y-Z 45°             | 250 daN | 300 daN |

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

| Designation                | length   | Item No. untreated   | Item No. anodised |
|----------------------------|----------|----------------------|-------------------|
| Airline lashing track 5514 | 500 mm   | <b>21551420-0500</b> | <b>on request</b> |
| Airline lashing track 5514 | 1,000 mm | <b>21551420-1000</b> | <b>on request</b> |
| Airline lashing track 5514 | 1,975 mm | <b>21551420-1975</b> | <b>on request</b> |
| Airline lashing track 5514 | 2,000 mm | <b>21551420-2000</b> | <b>on request</b> |
| Airline lashing track 5514 | 3,000 mm | <b>21551420-3000</b> | <b>on request</b> |

## End cap for airline lashing track 5514

**Item No. 225114001540**

Clicker without screws

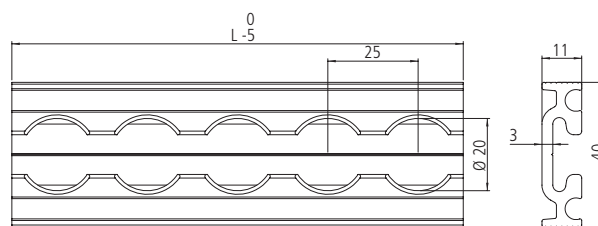
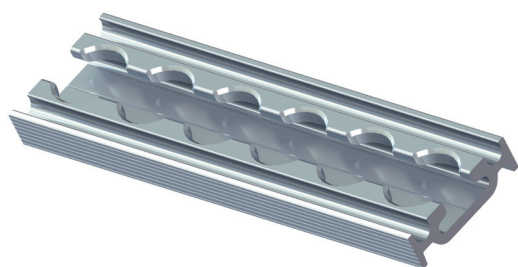
Plastic, black

Unit of quantity: Pieces

Other designs or special lengths on request.

## Aluminium airline lashing track 5508

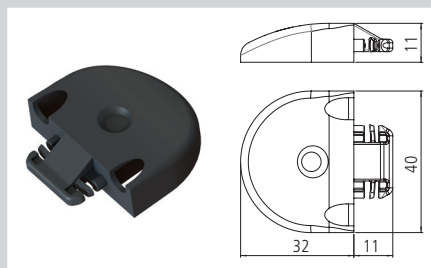
Weight: 560 g/m



| LC Lashing Capacity |         |           |
|---------------------|---------|-----------|
| WIS end fitting     | 382     | 380       |
| Z 90°               | 500 daN | 1,000 daN |
| X-Z 45°             | 500 daN | 1,000 daN |
| Y-Z 45°             | 400 daN | 900 daN   |

LC when attached: every 75mm, centrally with a countersunk screw M6 DIN 7991 10.9

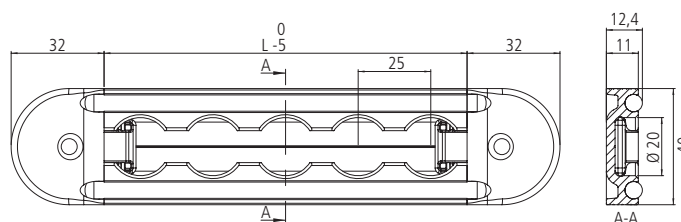
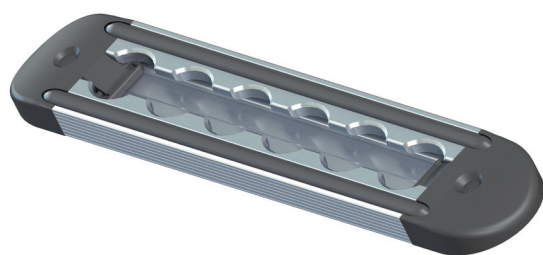
| Designation                | Length   | Item No. uncoated    |
|----------------------------|----------|----------------------|
| Airline lashing track 5508 | 500 mm   | <b>21550820-0500</b> |
| Airline lashing track 5508 | 1,000 mm | <b>21550820-1000</b> |
| Airline lashing track 5508 | 1,975 mm | <b>21550820-1975</b> |
| Airline lashing track 5508 | 2,000 mm | <b>21550820-2000</b> |
| Airline lashing track 5508 | 3,000 mm | <b>21550820-3000</b> |



"Click" end cap for airline lashing track 5508

| Accessories  | Material/colour | Unit of quantity | Item No.              |
|--|-----------------|------------------|-----------------------|
| „Click“ end cap for one-time installation in airline lashing track 5508<br>Additional screw connection not required. | Plastic, black  | Pieces           | <b>215104001540</b>   |
| Round rubber band 6 mm   | Rubber, black   | 50 metres        | <b>21550800-50000</b> |

## Aluminium airline lashing track 5508, cut to specification

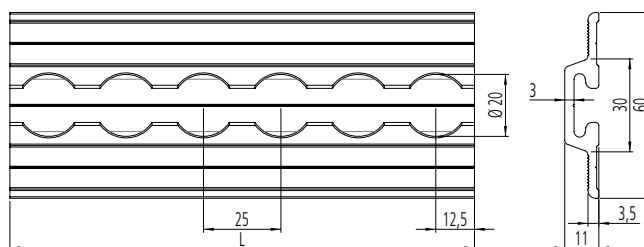
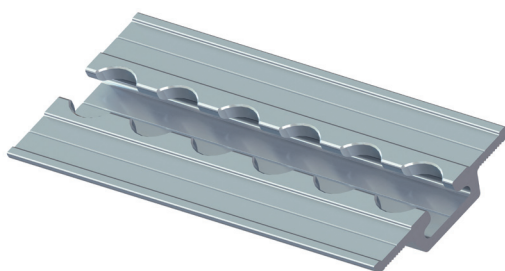


| Designation                                      | Length L = airline lashing track cut | Total length | Item No.             |
|--|--------------------------------------|--------------|----------------------|
| Airline lashing track 5508, cut to specification | 500 mm                               | 564 mm       | <b>21550877-0500</b> |
| Airline lashing track 5508, cut to specification | 1,000 mm                             | 1,064 mm     | <b>21550877-1000</b> |
| Airline lashing track 5508, cut to specification | 1,500 mm                             | 1,564 mm     | <b>21550877-1500</b> |
| Airline lashing track 5508, cut to specification | 1,900 mm                             | 1,964 mm     | <b>21550877-1900</b> |
| Airline lashing track 5508, cut to specification | 2,000 mm                             | 2,064 mm     | <b>21550877-2000</b> |
| Airline lashing track 5508, cut to specification | 3,000 mm                             | 3,064 mm     | <b>21550877-3000</b> |

Other designs or special lengths on request.

## Aluminium airline lashing track 5507

Weight: 680 g/m



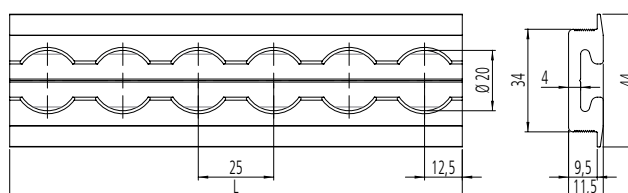
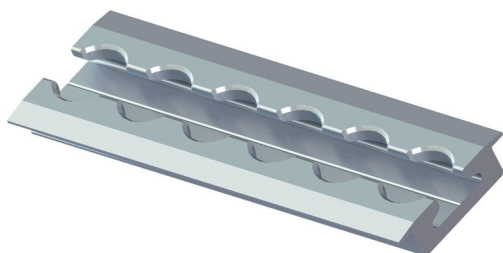
| LC Lashing Capacity |         |           |
|---------------------|---------|-----------|
| WIS end-fitting     | 382     | 380       |
| Z 90°               | 500 daN | 1,000 daN |
| X-Z 45°             | 500 daN | 1,000 daN |
| Y-Z 45°             | 400 daN | 900 daN   |

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

| Designation                | length   | Item No. untreated   |
|----------------------------|----------|----------------------|
| Airline lashing track 5507 | 500 mm   | <b>21550720-0500</b> |
| Airline lashing track 5507 | 1,000 mm | <b>21550720-1000</b> |
| Airline lashing track 5507 | 1,975 mm | <b>21550720-1975</b> |
| Airline lashing track 5507 | 2,000 mm | <b>21550720-2000</b> |
| Airline lashing track 5507 | 3,000 mm | <b>21550720-3000</b> |

## Aluminium airline lashing track 5502

Weight: 730 g/m



| LC Lashing Capacity |         |           |
|---------------------|---------|-----------|
| WIS end-fitting     | 379     | 380       |
| Z 90°               | 500 daN | 1,000 daN |
| X-Z 45°             | 500 daN | 1,000 daN |
| Y-Z 45°             | 400 daN | 900 daN   |

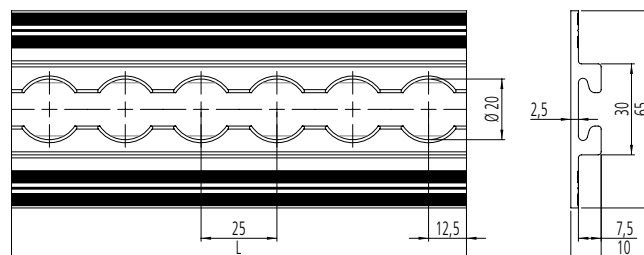
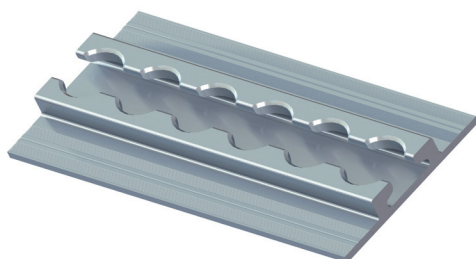
Lashing capacity for attachment: every 75 mm centrally with a countersunk screw M6 DIN 7991 10.9

| Designation                | length   | Item No. untreated | Item No. anodised    |
|----------------------------|----------|--------------------|----------------------|
| Airline lashing track 5502 | 500 mm   | <b>on request</b>  | <b>21550225-0500</b> |
| Airline lashing track 5502 | 1,000 mm | <b>on request</b>  | <b>21550225-1000</b> |
| Airline lashing track 5502 | 1,975 mm | <b>on request</b>  | <b>21550225-1975</b> |
| Airline lashing track 5502 | 2,000 mm | <b>on request</b>  | <b>21550225-2000</b> |
| Airline lashing track 5502 | 3,000 mm | <b>on request</b>  | <b>21550225-3000</b> |
| Airline lashing track 5502 | 6,000 mm | <b>on request</b>  | <b>21550225-6000</b> |

Other designs or special lengths on request.

## Aluminium airline lashing track 5501

Weight: 690 g/m



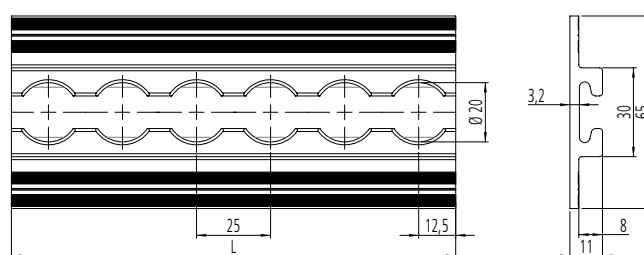
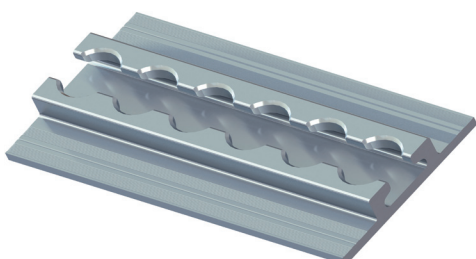
| LC Lashing Capacity |         |         |
|---------------------|---------|---------|
| WIS end-fitting     | 382     | 380     |
| Z 90°               | 500 daN | 500 daN |
| X-Z 45°             | 500 daN | 500 daN |
| Y-Z 45°             | 400 daN | 400 daN |

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

| Designation                | length   | Item No. untreated | Item No. anodised |
|----------------------------|----------|--------------------|-------------------|
| Airline lashing track 5501 | 500 mm   | on request         | 21550125-0500     |
| Airline lashing track 5501 | 1,000 mm | on request         | 21550125-1000     |
| Airline lashing track 5501 | 1,975 mm | on request         | 21550125-1975     |
| Airline lashing track 5501 | 2,000 mm | on request         | 21550125-2000     |
| Airline lashing track 5501 | 3,000 mm | on request         | 21550125-3000     |
| Airline lashing track 5501 | 6,000 mm | on request         | 21550125-6000     |

## Aluminium airline lashing track 5510

Weight: 800 g/m



| LC Lashing Capacity |         |          |
|---------------------|---------|----------|
| WIS end-fitting     | 382     | 380      |
| Z 90°               | 500 daN | 1000 daN |
| X-Z 45°             | 500 daN | 1000 daN |
| Y-Z 45°             | 400 daN | 900 daN  |

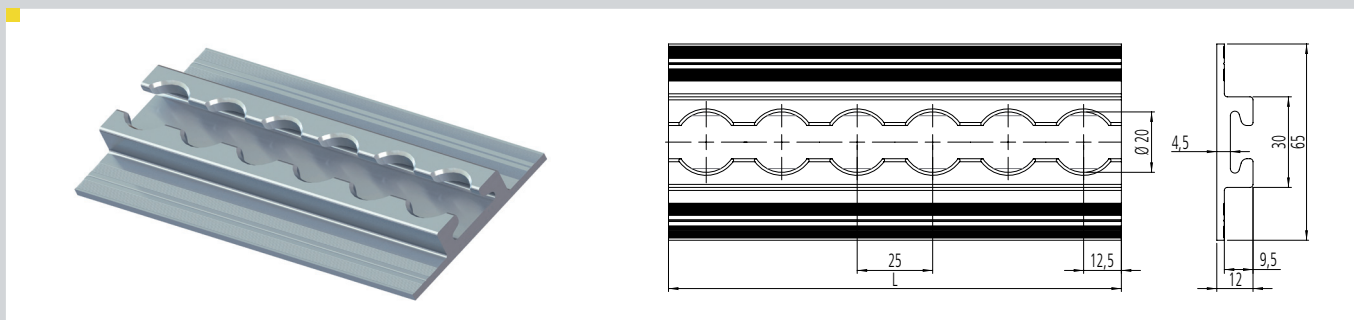
Lashing capacity for attachment: every 75 mm oppositely with a countersunk screw M6 DIN 7380 8.8

| Designation                | Länge    | Item No. untreated | Item No. anodised |
|----------------------------|----------|--------------------|-------------------|
| Airline lashing track 5510 | 500 mm   | 21551020-0500      | on request        |
| Airline lashing track 5510 | 1,000 mm | 21551020-1000      | on request        |
| Airline lashing track 5510 | 1,975 mm | 21551020-1975      | on request        |
| Airline lashing track 5510 | 2,000 mm | 21551020-2000      | on request        |
| Airline lashing track 5510 | 3,000 mm | 21551020-3000      | on request        |
| Airline lashing track 5510 | 6,000 mm | on request         | on request        |

Other designs or special lengths on request.

## Aluminium airline lashing track 5506

Weight: 860 g/m

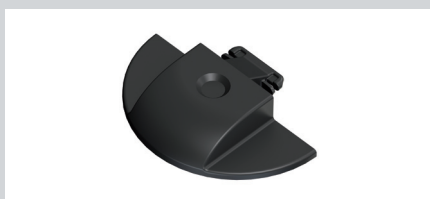


| LC Lashing Capacity |         |          |
|---------------------|---------|----------|
| WIS end-fitting     | 382     | 380      |
| Z 90°               | 500 daN | 1000 daN |
| X-Z 45°             | 500 daN | 1000 daN |
| Y-Z 45°             | 400 daN | 900 daN  |

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

| Designation                | length   | Item No. untreated | Item No. anodised |
|----------------------------|----------|--------------------|-------------------|
| Airline lashing track 5506 | 500 mm   | on request         | 21550625-0500     |
| Airline lashing track 5506 | 1,000 mm | on request         | 21550625-1000     |
| Airline lashing track 5506 | 1,975 mm | on request         | 21550625-1975     |
| Airline lashing track 5506 | 2,000 mm | on request         | 21550625-2000     |
| Airline lashing track 5506 | 3,000 mm | on request         | 21550625-3000     |
| Airline lashing track 5506 | 6,000 mm | on request         | 21550625-6000     |

## End cap for airline lashing track 5506

**Item No. 215105001540**

Clicker without screws

Plastic, black

Unit of quantity: Pieces

Other designs or special lengths on request.

# Lashing points

## Lashing point

Item No.: 24 315 00 000 12



LC = 800 daN  
Material: Steel electroplated  
Weight: 0.5 kg  
EN 12640-8

## Lashing point

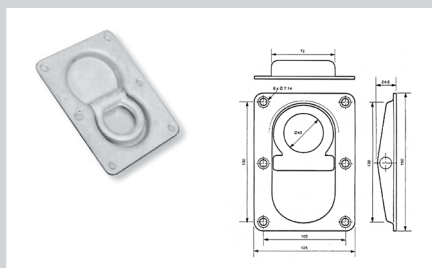
Item No.: 24 317 00 000 12



LC = 2,000 daN  
Material: Steel electroplated  
Weight:

## Lashing point

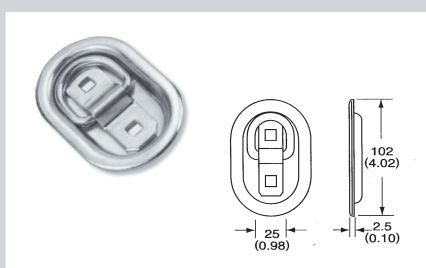
Item No.: 24 330 00 000 12



LC = 800 daN  
Material: Steel hot-dip galvanised  
Weight: 0.54 Kg  
EN 12640-8

## Lashing point

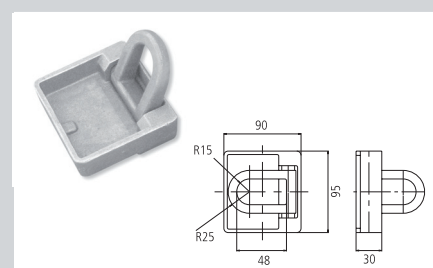
Item No.: 24 360 00 000 12



LC = 350 daN  
Material: Steel electroplated  
Weight: 0.18 kg

## Lashing point

Item No.: 24 370 00 000 10



LC = 2,500 daN  
Material: steel  
Weight: 0.88 kg

## Airline version, aluminium



Item No. 21 5400 00 10 20

Standard length: 45 mm  
Weight: 0.037 kg

| LC Lashing Capacity |         |
|---------------------|---------|
| WIS end-fitting     | 382     |
| 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     | 382     |
| 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 accessories

## Airline Track Cover Profile



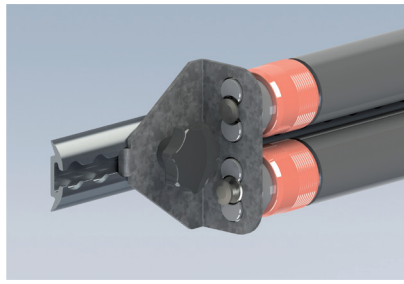
**Item No. 21 5109 01-1975**

Standard length: 1,975 mm

Weight: 0.275 kg

Plastic, grey RAL 7035

## Storage rill



**Item No. 215110010**

for two Airline Beams

Unit: Set (=2 pieces)

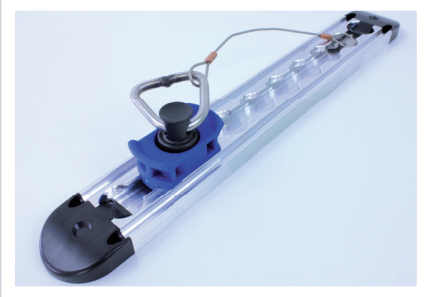
## Hook 527



**Item No. 140000052700**

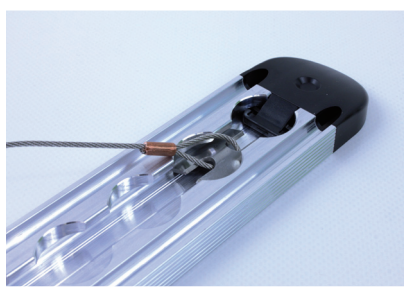
50 kg hooks for end fitting 382  
for hanging up jackets, tools, etc.

## Removal protection for end fitting 382



**Item No. 143820101**

End fitting 382 with locking rope



**Item No. 21511225**

Locking plate (moving freely in the  
airline track)

## WIS airline lashing tracks cleaning brush

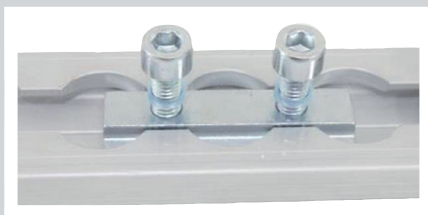


**Item No. 160014**

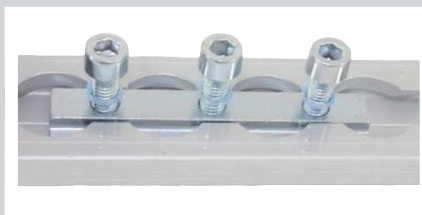
## Plastic protective plug, black



**Item No. 21510100**

**T-nut****Item No. 215108200612**

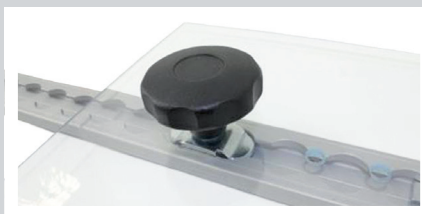
T-nut, gal. Zn  
2x M6 threads  
(without screws)

**T-nut****Item No. 215108300612**

T-nut, gal. Zn  
3x M6 threads  
(without screws)

**Screw fitting 5107****Item No. 21510725**

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

**Screw fitting 5108****Item No. 21510825**

Screw fitting M8 gal. Version for airline lashing  
tracks  
consisting of: clamping bracket, screw, star grip

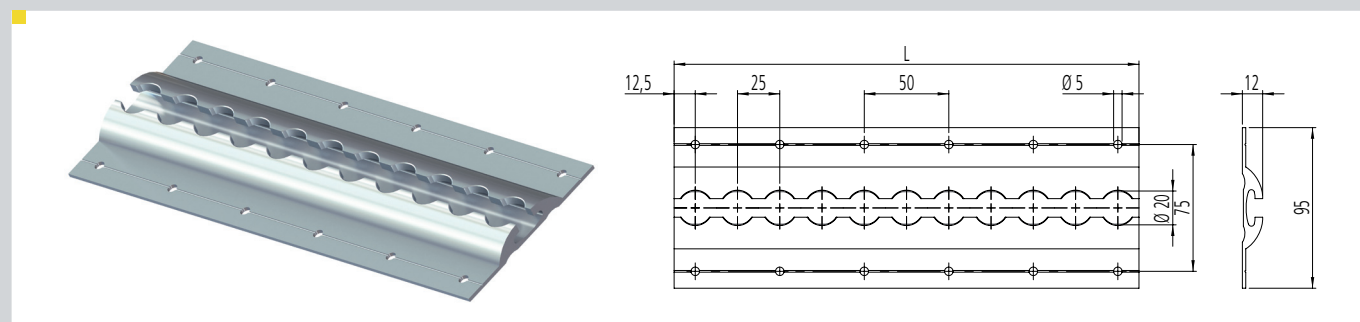
| Special screw | Effective thread length | Item No.        |
|---------------|-------------------------|-----------------|
| M8 x 25       | 15 mm                   | <b>21510724</b> |
| M8 x 30       | 20 mm                   | <b>21510725</b> |
| M8 x 40       | 30 mm                   | <b>21510726</b> |
| M8 x 60       | 50 mm                   | <b>21510727</b> |

| Special screw | Effective thread length | Item No.        |
|---------------|-------------------------|-----------------|
| M8 x 25       | 15 mm                   | <b>21510824</b> |
| M8 x 30       | 20 mm                   | <b>21510825</b> |
| M8 x 40       | 30 mm                   | <b>21510826</b> |
| M8 x 60       | 50 mm                   | <b>21510827</b> |

## Airline lashing lashing tracks, processed

### Aluminium airline lashing track 5000

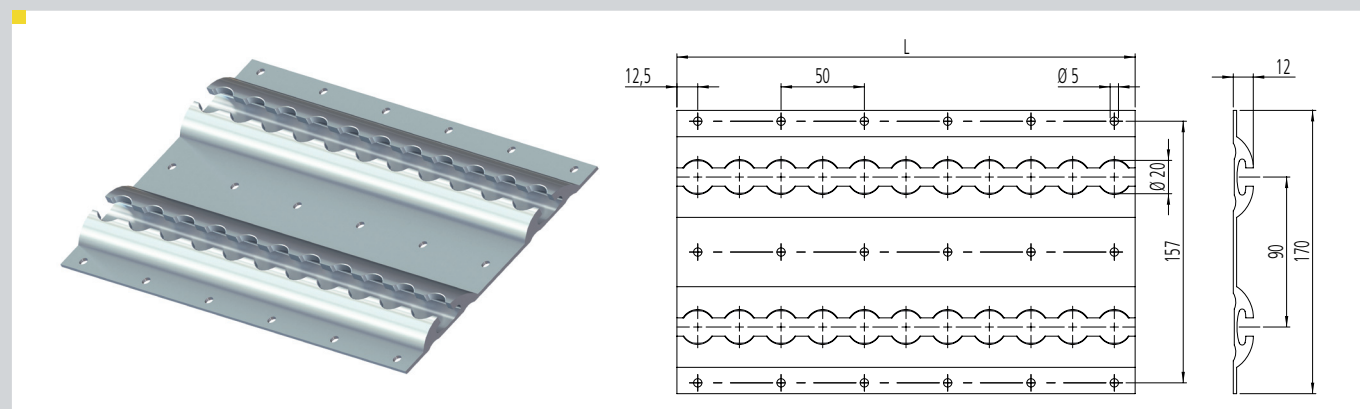
Weight: 975 g/m



| Designation                          | length   | Item No.      |
|--------------------------------------|----------|---------------|
| Airline lashing track 5000 untreated | 1,975 mm | 21500020-1975 |

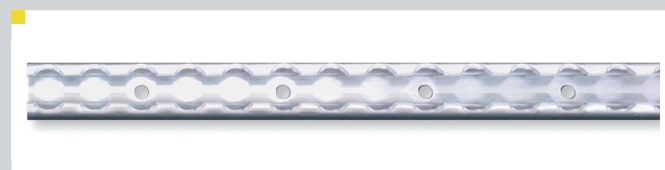
### Aluminium airline lashing track 5020

Weight: 1850 g/m



| Designation                          | length   | Item No.      |
|--------------------------------------|----------|---------------|
| Airline lashing track 5020 untreated | 1,975 mm | 21502020-1975 |

### Steel airline lashing track 5001



| Designation      | Item No.     |
|------------------|--------------|
| Steel galvanised | 215001312012 |

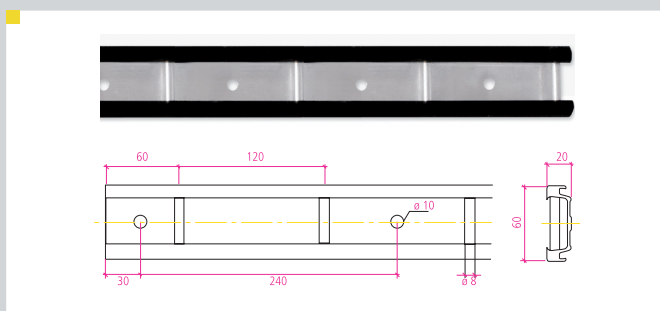
Standard length: 2,400 mm

### WISTRA Info

Cannot be used with all end fittings or accessories.

## Track with pins

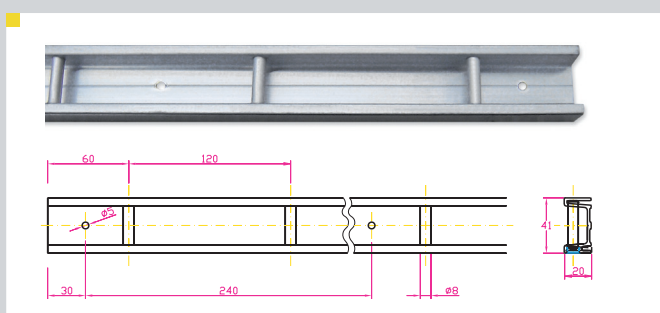
### Aluminium track with pins 4710 with rubber protection



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 | 1,500 mm | <b>21471020-1500</b> |
| Track with pins 4710 | 1,980 mm | <b>21471020-1980</b> |
| Track with pins 4710 | 2,000 mm | <b>21471020-2000</b> |
| Track with pins 4710 | 3,000 mm | <b>21471020-3000</b> |
| Track with pins 4710 | 4,000 mm | <b>21471020-4000</b> |
| Track with pins 4710 | 5,000 mm | <b>21471020-5000</b> |
| Track with pins 4710 | 6,000 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 | 3,000 mm | <b>21472020-3000</b> |
| Track with pins 4720 | 4,000 mm | <b>21472020-4000</b> |
| Track with pins 4720 | 5,000 mm | <b>21472020-5000</b> |
| Track with pins 4720 | 6,000 mm | <b>21472020-6000</b> |

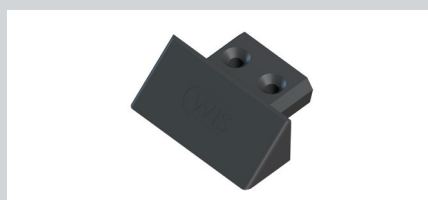
### End cap for lashing track with pins 4710



**Item No. 212106662240**

Plastic, grey RAL 7001  
Unit of quantity: Pieces

### End cap for lashing track with pins 4710



**Item No. 212106661540**

Plastic, black  
Unit of quantity: Pieces

### End cap for lashing track with pins 4720

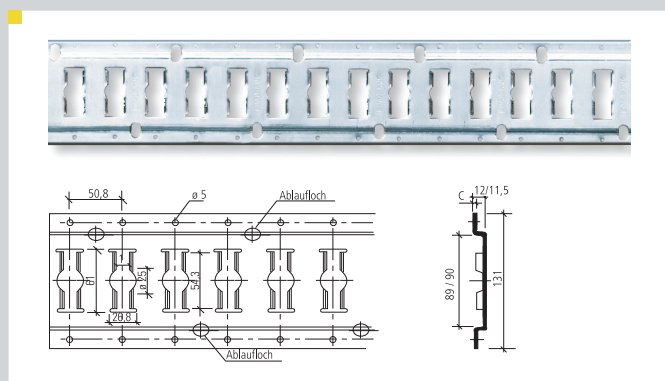


**Item No. 212106462040**

Plastic, grey RAL 7001  
Unit of quantity: Pieces

## Lashing tracks

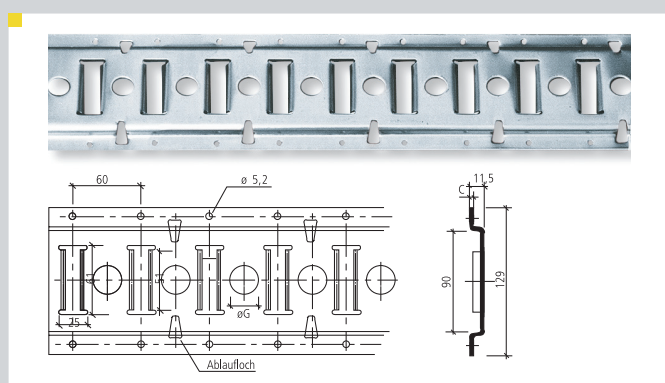
### Anchor combi lashing track 3009



| 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: 3,000 mm

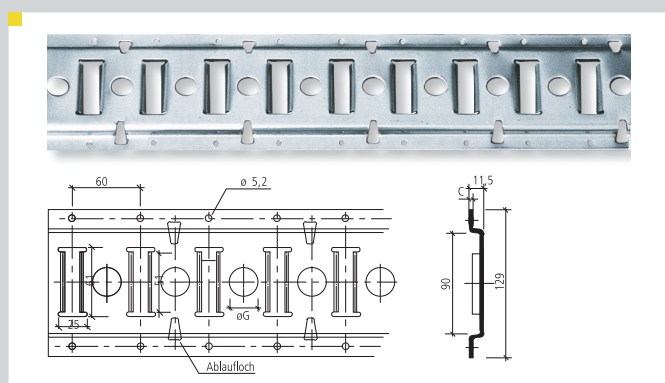
### Anchor combi lashing track 3008 with 20 mm hole size



| 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: 3,000 mm

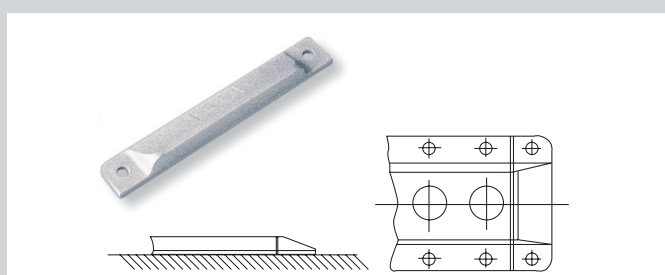
### Anchor combi lashing track 3008 with 25 mm hole size



| 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>213008302520</b> |

Standard length: 3,000 mm

### End cap for lashing tracks

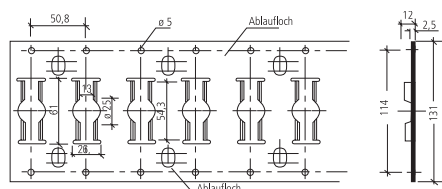
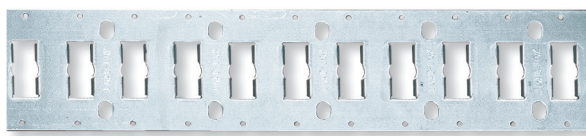


#### Item No. 212109951240

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

Special lengths on request

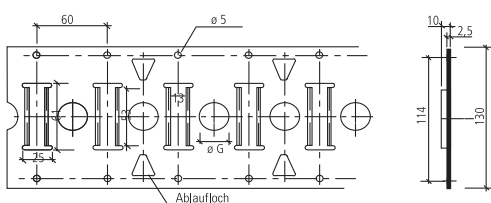
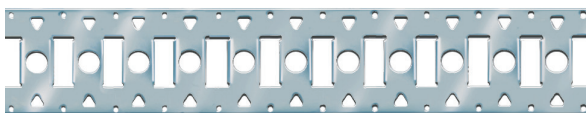
### Anchor combi lashing track 3109



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

Standard length: 3,000 mm

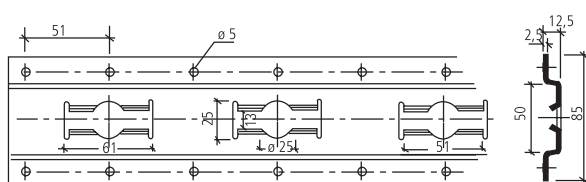
### Anchor combi lashing track 3108



| 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: 3,000 mm

### Anchor combi lashing track 2010

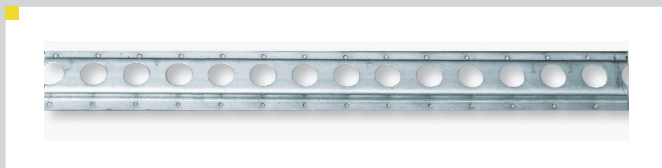


| Designation      | Dimension C | Item No.            |
|------------------|-------------|---------------------|
| Steel galvanised | 2.5 mm      | <b>212010250812</b> |

Standard length: 2,400 mm

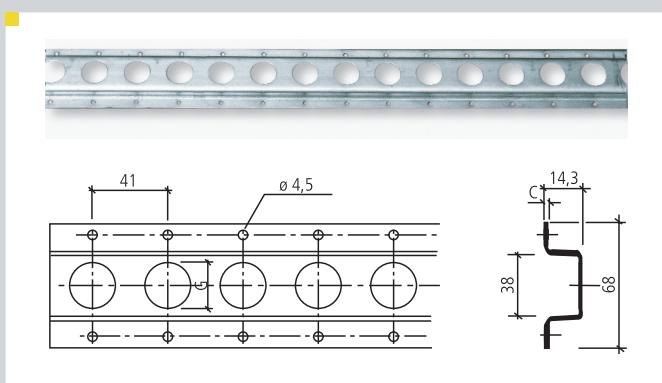
Special lengths on request

### 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> |

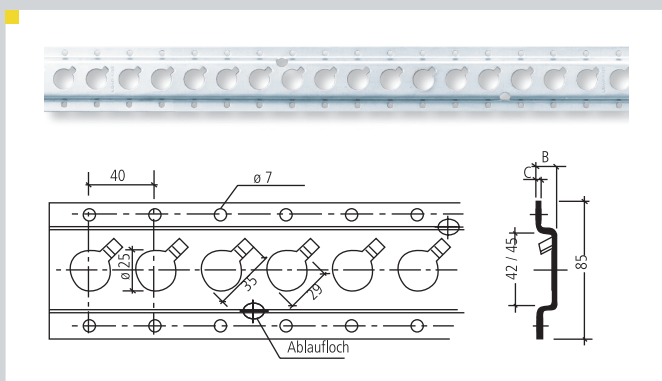
Standard length: 3,000 mm



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

Standard length: 30,00 mm

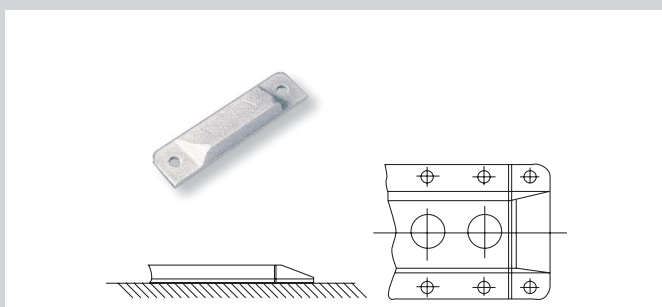
### Round hole lashing track 1806 with cut-out



| 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: 3,000 mm

### End cap for lashing tracks



#### Item No. 212106501240

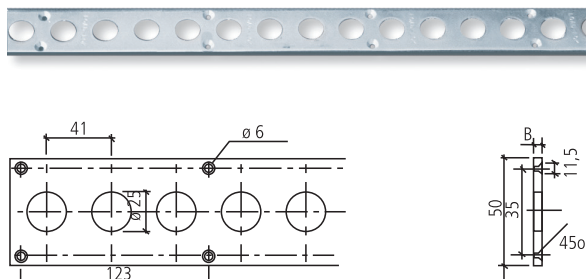
Plastic, grey RAL 7001

e.g. for lashing tracks 1806

Unit of quantity: Pieces

Special lengths on request

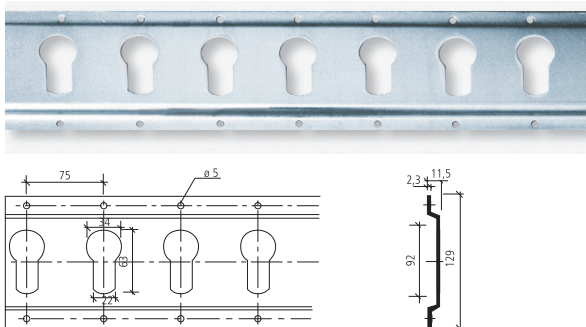
### Round hole lashing track 3004



| Designation      | Dimension B | Item No.            |
|------------------|-------------|---------------------|
| Steel galvanised | 5 mm        | <b>213004502512</b> |
| Aluminium        | 6 mm        | <b>213004602520</b> |

Standard length: 3,000 mm

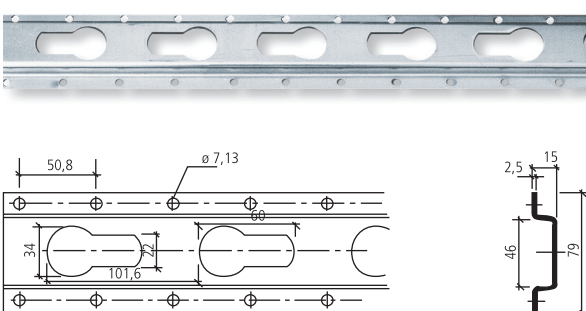
### Key-hole lashing track 1803 horizontal



| Designation      | Dimension C | Item No.            |
|------------------|-------------|---------------------|
| Steel galvanised | 2.3 mm      | <b>211803200852</b> |

Standard length: 3,000 mm

### Key-hole lashing track 1803 vertical



| Designation      | Dimension C | Item No.            |
|------------------|-------------|---------------------|
| Steel galvanised | 2.5 mm      | <b>211803200152</b> |

Standard length: 3,000 mm

Special lengths on request

# WISTRA parting walls and parting grids

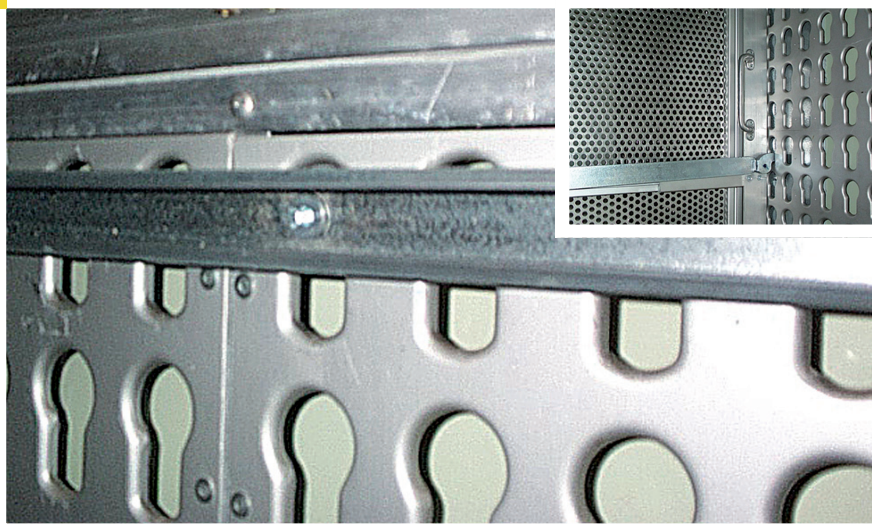
The WISTRA parting walls and parting grids are manufactured according to individual customer requirements and application purposes.

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

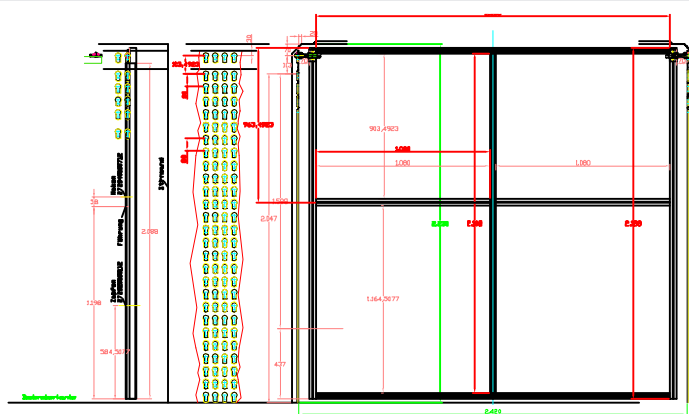
Can be supplied in all sizes



Successfully implemented:



... genau die!



## 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.

- 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

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.

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  $0.4 \text{ Wm}^2\text{K}$



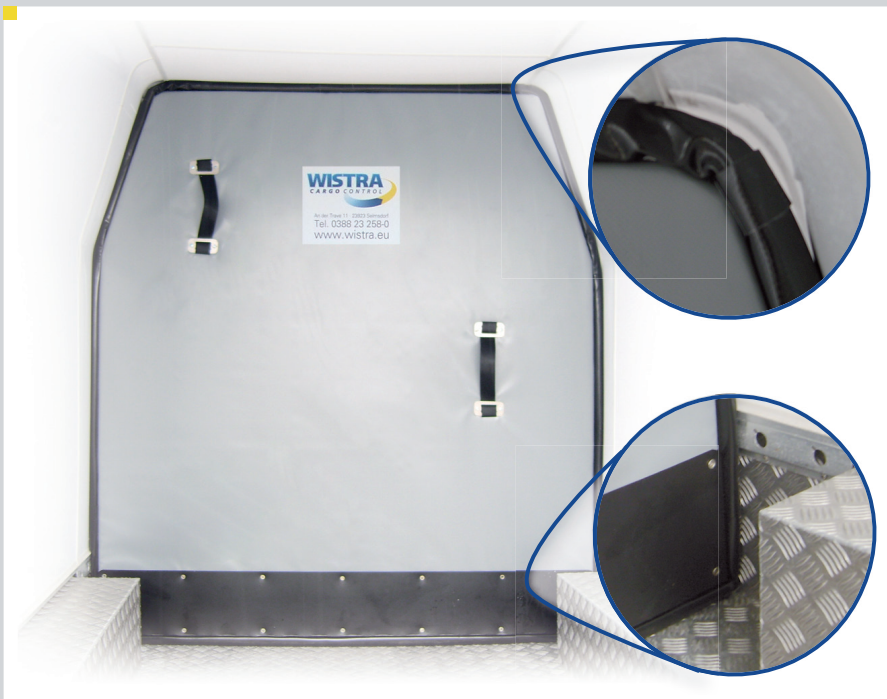
Due to the multi-layered structure the cold safe walls are easy to handle and rugged in application. The bottom edge is constructed as a shock-proof base edge.

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 on 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

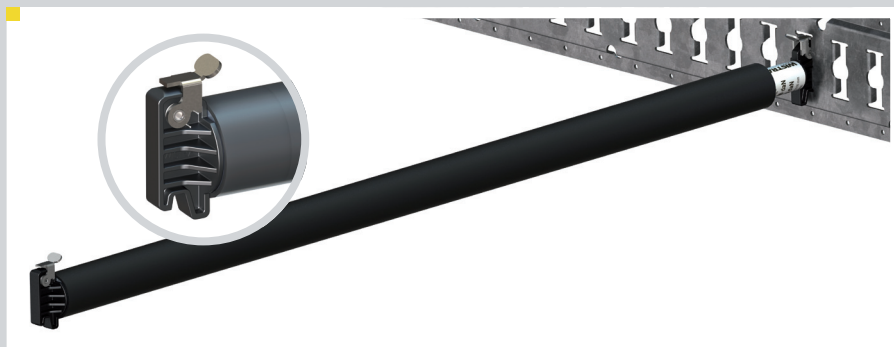
| Blocking capacity of the form-fit | Maximum weight of the load unit/s |           |                 |           |                 |     |
|-----------------------------------|-----------------------------------|-----------|-----------------|-----------|-----------------|-----|
|                                   | 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          | 1,000 kg  | 500 kg          | *)  |
| 150 daN                           | 250 kg                            | 500 kg    | 370 kg          | 1,500 kg  | 750 kg          | *)  |
| 200 daN                           | 330 kg                            | 660 kg    | 500 kg          | 2,000 kg  | 1,000 kg        | *)  |
| 250 daN                           | 410 kg                            | 830 kg    | 620 kg          | 2,500 kg  | 1,250 kg        | *)  |
| 300 daN                           | 500 kg                            | 1,000 kg  | 750 kg          | 3,000 kg  | 1,500 kg        | *)  |
| 350 daN                           | 580 kg                            | 1,160 kg  | 870 kg          | 3,500 kg  | 1,750 kg        | *)  |
| 400 daN                           | 660 kg                            | 1,330 kg  | 1,000 kg        | 4,000 kg  | 2,000 kg        | *)  |
| 450 daN                           | 750 kg                            | 1,500 kg  | 1,120 kg        | 4,500 kg  | 2,250 kg        | *)  |
| 500 daN                           | 830 kg                            | 1,660 kg  | 1,250 kg        | 5,000 kg  | 2,500 kg        | *)  |
| 550 daN                           | 910 kg                            | 1,830 kg  | 1,370 kg        | 5,500 kg  | 2,750 kg        | *)  |
| 600 daN                           | 1,000 kg                          | 2,000 kg  | 1,500 kg        | 6,000 kg  | 3,000 kg        | *)  |
| 650 daN                           | 1,080 kg                          | 2,160 kg  | 1,620 kg        | 6,500 kg  | 3,250 kg        | *)  |
| 750 daN                           | 1,250 kg                          | 2,500 kg  | 1,870 kg        | 7,500 kg  | 3,750 kg        | *)  |
| 800 daN                           | 1,330 kg                          | 2,660 kg  | 2,000 kg        | 8,000 kg  | 4,000 kg        | *)  |
| 900 daN                           | 1,500 kg                          | 3,000 kg  | 2,250 kg        | 9,000 kg  | 4,500 kg        | *)  |
| 1,000 daN                         | 1,660 kg                          | 3,330 kg  | 2,500 kg        | 10,000 kg | 5,000 kg        | *)  |
| 1,250 daN                         | 2,080 kg                          | 4,160 kg  | 3,120 kg        | 12,500 kg | 6,250 kg        | *)  |
| 1,500 daN                         | 2,500 kg                          | 5,000 kg  | 3,750 kg        | 15,000 kg | 7,500 kg        | *)  |
| 1,750 daN                         | 2,910 kg                          | 5,830 kg  | 4,370 kg        | 17,500 kg | 8,750 kg        | *)  |
| 2,000 daN                         | 3,330 kg                          | 6,660 kg  | 5,000 kg        | 20,000 kg | 10,000 kg       | *)  |
| 3,000 daN                         | 5,000 kg                          | 10,000 kg | 7,500 kg        | 30,000 kg | 15,000 kg       | *)  |
| 4,000 daN                         | 6,660 kg                          | 13,330 kg | 10,000 kg       | 40,000 kg | 20,000 kg       | *)  |
| 5,000 daN                         | 8,330 kg                          | 16,660 kg | 12,500 kg       | 50,000 kg | 25,000 kg       | *)  |

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

# Shoring beam

## WISTRA Aluminium COMBI-BEAM 1858

Design with black PVC coating



The COMBI-BEAM 1858 + 1859 is a WISTRA development with focus on user-friendliness and gentle application in pressure-sensitive vehicle sections.

- Design for anchor combination lashing tracks
- Round aluminium locking bar: Design 1858 with black PVC coating, design 1859 without PVC coating
- without spring action

- Design 1858 supporting tube diameter 42 mm plus PVC coating = 45 mm
- Design 1859 supporting tube diameter 42 mm
- specially suited for the „cooler“ section and on the basis of the applied materials, explosion protection classification is possible.
- Aluminium tube
- Plastic end pieces with stainless steel latch

Without pressure on the vehicle body

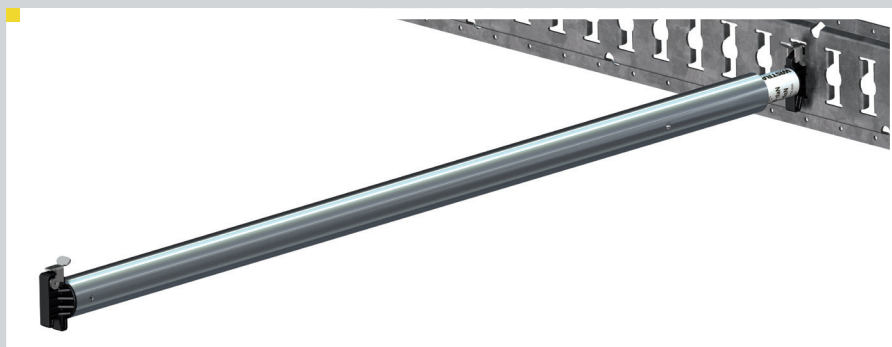


|  | Advantages   |                                    |                              |
|--|--------------|------------------------------------|------------------------------|
|  | for the user | for the transport vehicle/the load | compared to similar products |
| In connection with anti-slip materials, loads up to 2,000 kg can be secured in driving direction with one COMBI-BEAM.                          | X            | X                                  | X                            |
| Extensive technical documentation/operation manual   | X            |                                    | X                            |
| Easy telescoping, up to 70mm by standard   | X            |                                    | X                            |
| No bulging operating elements in the complete application area   | X            | X                                  | X                            |
| Silent design with plastic centring piece  | X            |                                    | X                            |
| Design 1858 Supporting tube with PVC coating for comfortable handling even in cold outside temperatures, as well as for protection of the load | X            | X                                  | X                            |
| The COMBI pins on both sides latch into the COMBI lashing track.   | X            | X                                  | X                            |
| The COMBI pins do not damage the material within the lashing track.  | X            | X                                  | X                            |
| Insertion of the COMBI-BEAM by the user does not require simultaneous application of pressure.   | X            | X                                  | X                            |
| The COMBI pins cannot slide out because they lock into place when pressure is applied on the side wall.  | X            | X                                  | X                            |
| Based on the locking in the COMBI lashing track, the system does not damage the transport vehicle.   | X            | X                                  | X                            |
| High-quality product designation affixed to the telescope  | X            |                                    | X                            |

| Designation     | Equipment        | for inside dimension   | Marking        | Blocking force*)               | Item No.              |
|-----------------|------------------|--|----------------|--------------------------------|-----------------------|
| COMBI-BEAM 1858 | with PVC coating | 2,430 - 2,500 mm   | WIS label      | 400 daN                        | <b>221858-2430</b>    |
| COMBI-BEAM 1858 | with PVC coating | 2,430 - 2,500 mm   | Customer label | 400 daN                        | <b>221858999-2430</b> |
| COMBI-BEAM 1858 | with PVC coating | Special length of 458 mm to 6,000 mm (70 mm adjusting range) | WIS label      | on request depending on length | <b>on request</b>     |
| COMBI-BEAM 1858 | with PVC coating | Special length of 458 mm to 6,000 mm (70 mm adjusting range) | Customer label | on request depending on length | <b>on request</b>     |



## WISTRA Aluminium COMBI-BEAM 1859

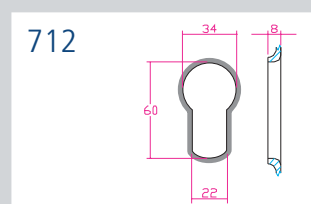
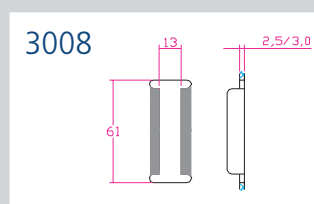
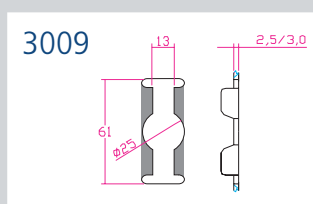


Without pressure on the vehicle body



| Designation     | Equipment | Telescoping range  | Marking        | Blocking force*)               | Item No.              |
|-----------------|-----------|--|----------------|--------------------------------|-----------------------|
| COMBI-BEAM 1859 | without   | 2,430 - 2,500 mm   | WIS label      | 400 daN                        | <b>221859-2430</b>    |
| COMBI-BEAM 1859 | without   | 2,430 - 2,500 mm   | Customer label | 400 daN                        | <b>221859999-2430</b> |
| COMBI-BEAM 1859 | without   | Special length of 458 mm to 6,000 mm (70 mm adjusting range) | WIS label      | on request depending on length | <b>on request</b>     |
| COMBI-BEAM 1859 | without   | Special length of 458 mm to 6,000 mm (70 mm adjusting range) | Customer label | on request depending on length | <b>on request</b>     |

Use of aluminium COMBI-BEAM 1858 and 1859 with lashing tracks:



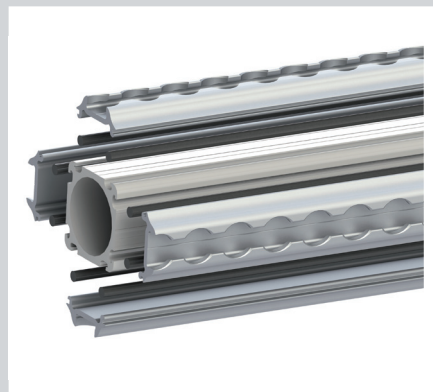
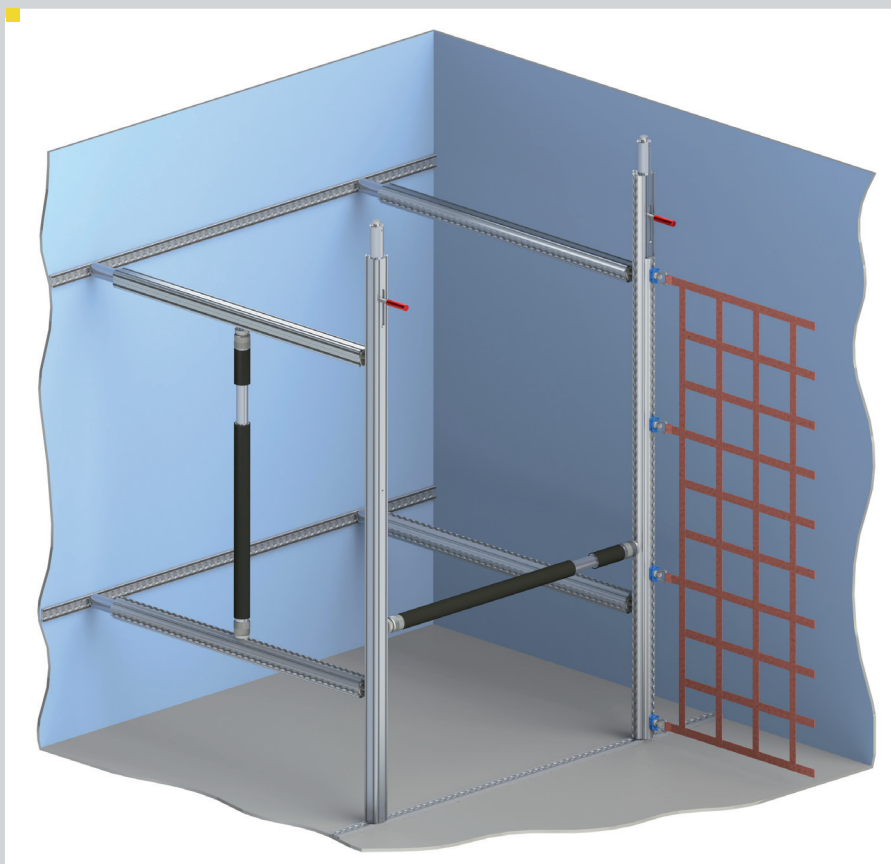
## WISTRA aluminium shoring beam modular construction system



### Strength meets individuality

The new WISTRA shoring beam system is based on a novel 50x50 mm aluminium profile.

In construction, we focused on the numerous customer requests submitted to us.



### The carrier

The new WISTRA shoring beam system is based on a novel 50x50 mm aluminium profile. In construction, we focused on the numerous customer requests submitted to us.



### The connection systems

The novel square shoring beams can be equipped in their basic design or additionally with inserted airline lashing tracks and/or with a rubber protection across the entire length or in sections.

We achieved blocking forces BC of up to 900 daN on our in-house test stand, depending on the design.

The true strength becomes evident in the versatile use and the individual connection options to the inserted integrated airline track profile.

Besides the Airline Beam 1855, WISTRA lashing straps as well as safeguard load securing nets or additional accessories can be used for the airline lashing tracks.

You will find version variants on the next pages. We will gladly process individual requirements.

The WISTRA team is looking forward to your inquiries and requests.

# WISTRA aluminium „Spairbalken 1851“ (shoring beam) with compression spring telescope and handle



## Pin version



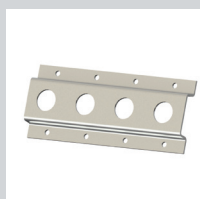
Version 09

Version 19, anti-twist  
Observe position!

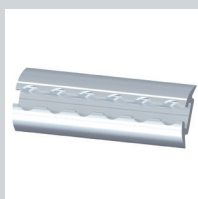
Version 24

Version 25, anti-twist  
Observe position!

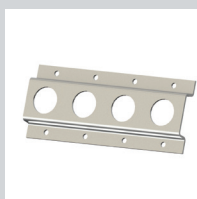
## for lashing track



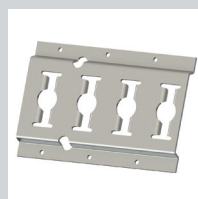
Boring ø 20 mm



Airline design



Boring ø 25 mm



Combi track ø 25 mm



## Version examples

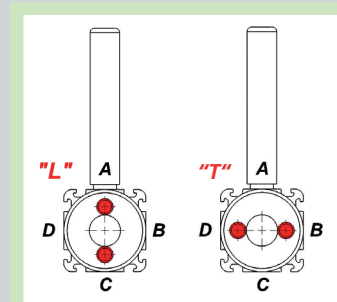
| Example | Designation      | Item No. |    |      |       |   |
|---------|------------------|----------|----|------|-------|---|
| 1       | Spairbalken 1851 | 221851   | 09 | 1111 | -2000 |   |
| 2       | Spairbalken 1851 | 221851   | 19 | 2222 | -2000 | L |
| 3       | Spairbalken 1851 | 221851   | 19 | 1212 | -2500 | T |
| 4       | Spairbalken 1851 | 221851   | 24 | 1222 | -2500 |   |

## Technical information

| Example | Pin Version | Profile fitting   | Application length +/-25 mm | Carrier length L **) | Pin position    | BC daN *)                                    |
|---------|-------------|---|-----------------------------|----------------------|-----------------|--|
| 1       | 09          | A, B, C, D complete with airline lashing track                              | 2.000 mm                    | 1.900 mm             |                 | between 500 and 900 daN depending on version |
| 2       | 19          | A, B, C, D complete with elastic cord                                       | 2.000 mm                    | 1.900 mm             | Longitudinal AC |  |
| 3       | 19          | A, C complete with airline lashing track<br>B, D complete with elastic cord | 2.500 mm                    | 2.400 mm             | Transverse BD   |  |
| 4       | 24          | A complete with airline lashing track<br>B, C, D complete with elastic cord | 2.500 mm                    | 2.400 mm             |                 |  |

## Individual versions, profile fitting across the entire length of the profile

|   |    |  |       |        |
|---|----|--|-------|--------|
| 221851  | XX | ABCD   | -LLLL | L or T |
| 221851 shoring beam version                         |    |  |       |        |
| XX = pin version – see above                        |    |  |       |        |
| Profile fitting                                     |    | Replace letters with desired version:                          |       |        |
| A = side A fitted with ...                          |    | 0 = without fitting  |       |        |
| B = side B fitted with ...                          |    | 1 = fitted with airline lashing track along max. usable length |       |        |
| C = side C fitted with ...                          |    | 2 = fitted with elastic cord along max. usable length          |       |        |
| D = side D fitted with ...                          |    | For accessory parts, see page 136.                             |       |        |
| -LLLL = application length +/-25 mm                 |    |  |       |        |
| With „anti-twist“ model pin version 19 + version 25 |    |  |       |        |
| L = in longitudinal direction from side A to side C |    |  |       |        |
| T = transverse from side B to side D                |    |  |       |        |



\*) Blocking force with even surface load

\*\*) Up to 2500 mm application range, the carrier is 100 mm shorter. From application range > 2500 mm, carrier length = 2400 mm

# WISTRA aluminium „Spairbalken 1857“ (shoring beam) with compression spring telescope



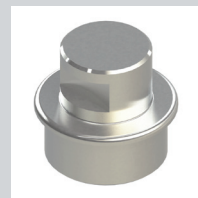
## Pin version



Version 09

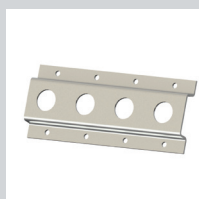
Version 19, anti-twist  
Observe position!

Version 24

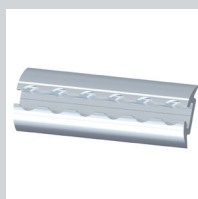
Version 25, anti-twist  
Observe position!

Version 32

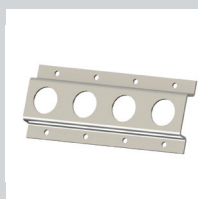
## for lashing track



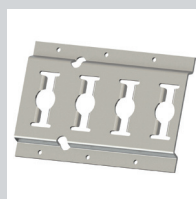
Boring ø 20 mm



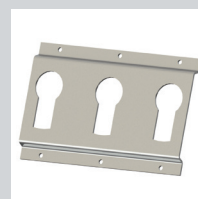
Airline design



Boring ø 25 mm



Combi track ø 25 mm



Keyhole 34/22

## Version examples

| Example | Designation      | Item No. |    |      |       |
|---------|------------------|----------|----|------|-------|
| 1       | Spairbalken 1857 | 221857   | 09 | 1111 | -2000 |
| 2       | Spairbalken 1857 | 221857   | 19 | 2222 | -2000 |
| 3       | Spairbalken 1857 | 221857   | 19 | 1212 | -2500 |
| 4       | Spairbalken 1857 | 221857   | 24 | 1222 | -2500 |

## Technical information

| Example | Pin Version | Profile fitting   | Application length +/- 25 mm | Carrier length L **) | BC daN *)                                    |
|---------|-------------|---|------------------------------|----------------------|--|
| 1       | 09          | A, B, C, D complete with airline lashing track                              | 2.000 mm                     | 1.900 mm             | between 500 and 900 daN depending on version |
| 2       | 19          | A, B, C, D complete with elastic cord                                       | 2.000 mm                     | 1.900 mm             |  |
| 3       | 19          | A, C complete with airline lashing track<br>B, D complete with elastic cord | 2.500 mm                     | 2.400 mm             |  |
| 4       | 24          | A complete with airline lashing track<br>B, C, D complete with elastic cord | 2.900 mm                     | 2.400 mm             |  |

## Individual versions, profile fitting across the entire length of the profile

221857 XX ABCD -LLLL

221857 shoring beam version

XX = pin version – see above

Profile fitting

A = side A fitted with ...  
B = side B fitted with ...  
C = side C fitted with ...  
D = side D fitted with ...

Replace letters with desired version:

0 = without fitting

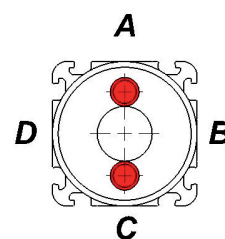
1 = fitted with airline lashing track along max. usable length

2 = fitted with elastic cord along max. usable length

For accessory parts, see page 136.

-LLLL = application length +/- 25 mm

With the „anti-twist“ model version 19 + version 25, the pin is installed in longitudinal direction from side A to side C



\*) Blocking force with even surface load

\*\*) Up to 2500 mm application range, the carrier is 100 mm shorter. From application range > 2500 mm, carrier length = 2400 mm

# WISTRA aluminium „Spairbalken 1856“ (shoring beam)

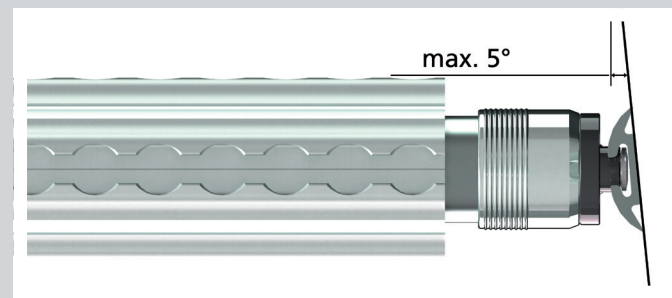
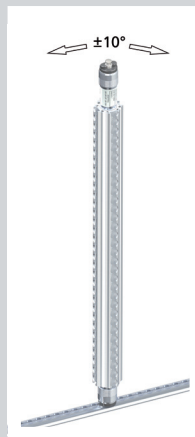


## Product description

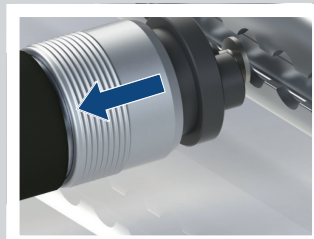
In connection with the parallel-running airline lashing track in the vehicle, the trailer or other means of transport, the „Spairbalken“ ensures form-locking load securing.

The „Spairbalken“ can be used horizontally and vertically for load securing.

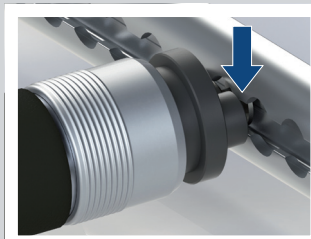
The automatic airline pins on both sides each engage in one hole pair of the airline lashing track.



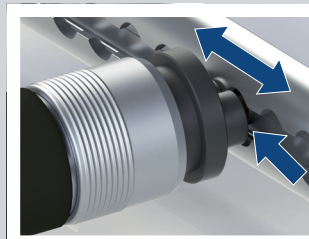
### 1. Unlocking



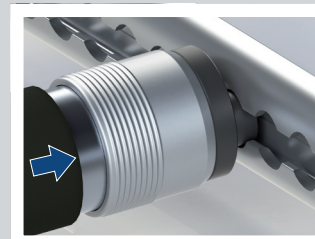
### 2. Inserting



### 3. Shifting



### 4. Locking



## Version examples

| Example | Designation      | Item No. |    |      |       |  |
|---------|------------------|----------|----|------|-------|--|
| 1       | Spairbalken 1856 | 221856   | 03 | 1111 | -900  |  |
| 2       | Spairbalken 1856 | 221856   | 03 | 2222 | -1300 |  |
| 3       | Spairbalken 1856 | 221856   | 03 | 1212 | -1500 |  |
| 4       | Spairbalken 1856 | 221856   | 05 | 1222 | -1500 |  |

## Technical information

| Example | Extension | Profile fitting   | Telescoping range L1 – L2 | BC daN *)                                    |
|---------|-----------|---|---------------------------|--|
| 1       | 300 mm    | A, B, C, D complete with airline lashing track                              | 900-1.200 mm              | between 500 and 900 daN depending on version |
| 2       | 300 mm    | A, B, C, D complete with elastic cord                                       | 1.300-1.600 mm            |  |
| 3       | 300 mm    | A, C complete with airline lashing track<br>B, D complete with elastic cord | 1.500-1.800 mm            |  |
| 4       | 500 mm    | A complete with airline lashing track<br>B, C, D complete with elastic cord | 1.500-2.000 mm **)        |  |

## Individual versions, profile fitting across the entire length of the profile

**221856** **XX** **ABCD** **-LLLL**

221856 Spairbalken (shoring beam) version

XX = Extension e.g. 03 = 300 mm

Profile fitting

A = side A fitted with ...

B = side B fitted with ...

C = side C fitted with ...

D = side D fitted with ...

Replace letters with desired version:

0 = without fitting

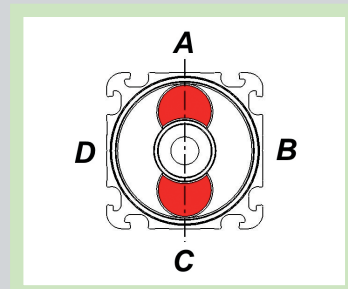
1 = fitted with airline lashing track along max. usable length

2 = fitted with elastic cord along max. usable length

For accessory parts, see page 136.

-LLLL = shortest application length

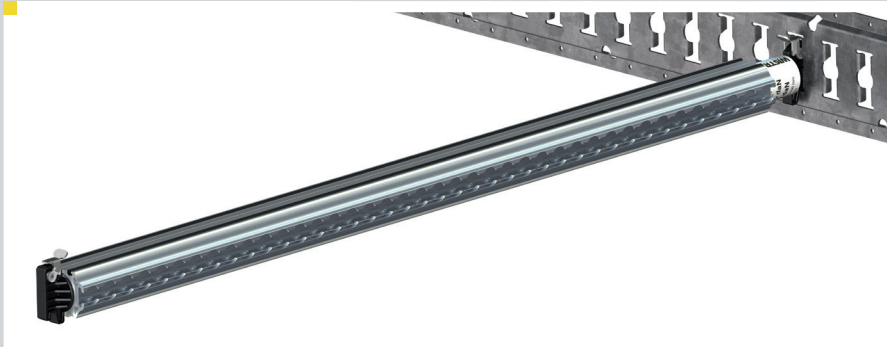
With the automatic pins, the pin is installed in longitudinal direction from side A to side C



\*) Blocking force with even surface load ; \*\*) In case of vertical application observe working height



## WISTRA Aluminium „Spairbalken 1861“ (shoring beam) square version



### Strength meets individuality

The COMBI-BEAM 1861 is a WISTRA development with focus on user-friendliness and gentle application in pressure-sensitive vehicle sections.

Besides a high blocking force, version 1861 offers additional connection options through optional equipment with airline lashing track for horizontal and vertical connections like the Airline-Beam, WIS Safeguard load securing nets, WIS lashing straps, etc

- Design for anchor combination lashing tracks
- Optionally equipped with airline lashing track and/or rubber band
- without spring action
- suited for the „cooler“ section and on the basis of the applied materials, explosion protection classification is possible
- Aluminium square tube 50x50 mm:  
Plastic end pieces with stainless steel latch

Without pressure on the vehicle body



|   | Advantages   |                                    |                              |
|---|--------------|------------------------------------|------------------------------|
|   | for the user | for the transport vehicle/the load | compared to similar products |
| In connection with anti-slip materials, loads up to 4,000 kg can be secured in driving direction with one COMBI-BEAM. | X            | X                                  | X                            |
| Extensive technical documentation/operation manual  | X            |                                    | X                            |
| Easy telescoping, up to 70 mm by standard   | X            |                                    | X                            |
| No bulging operating elements in the complete application area  | X            | X                                  | X                            |
| Silent design with plastic centring piece   | X            |                                    | X                            |
| Square carrier tube, can be optionally fitted with airline lashing track and/or rubber band                           | X            | X                                  | X                            |
| Connection options in connection with optional equipment with airline lashing track – also in individual sections     | X            | X                                  | X                            |
| The COMBI pins on both sides latch into the COMBI lashing track.  | X            | X                                  | X                            |
| The COMBI pins do not damage the material within the lashing track.   | X            | X                                  | X                            |
| Insertion of the COMBI-BEAM by the user does not require simultaneous application of pressure in both directions.     | X            | X                                  | X                            |
| The COMBI pins cannot slide out because they lock into place when pressure is applied on the side wall.               | X            | X                                  | X                            |
| Based on the locking in the COMBI lashing track, the system does not damage the transport vehicle.                    | X            | X                                  | X                            |
| High-quality product designation affixed to the telescope   | X            |                                    | X                            |

| Designation      | Equipment | Telescoping range  | Marking        | Blocking force*) | Item No.           |
|------------------|-----------|--|----------------|------------------|--------------------|
| Spairbalken 1861 | without   | 2,430 - 2,500 mm   | WIS label      | 400 daN          | 2218610000-2430    |
| Spairbalken 1861 | without   | 2,430 - 2,500 mm   | Customer label | 400 daN          | 2218619990000-2430 |
| Spairbalken 1861 | without   | Special length of 458 mm to 3,000 mm (70 mm adjusting range) | WIS label      | 400 daN          | on request         |
| Spairbalken 1861 | without   | Special length of 458 mm to 3,000 mm (70 mm adjusting range) | Customer label | 400 daN          | on request         |

## Examples with optional equipment

| Designation      | Equipment  | for inside dimension | Marking   | Blocking force*) | Item No.               |
|------------------|--|----------------------|-----------|------------------|------------------------|
| Spairbalken 1861 | Side A fitted with airline lashing track<br>Side B fitted with rubber band<br>Side C without equipment<br>Side D fitted with rubber band           | 2,430 - 2,500 mm     | WIS label | 400 daN          | <b>2218610000-2430</b> |
| Spairbalken 1861 | Side A fitted with rubber band<br>Side B fitted with rubber band<br>Side C fitted with rubber band<br>Side D fitted with rubber band               | 2,430 - 2,500 mm     | WIS label | 400 daN          | <b>2218610000-2430</b> |
| Spairbalken 1861 | Side A fitted with rubber band<br>Side B fitted with airline lashing track<br>Side C without equipment<br>Side D fitted with airline lashing track | 2,430 - 2,500 mm     | WIS label | 400 daN          | <b>2218610000-2430</b> |

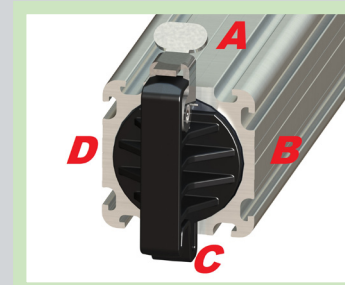
### Individual versions, profile fitting across the entire length of the profile

**221857**    **ABCD**    **-LLLL**

221857 shoring beam version

|                            |  |
|----------------------------|--|
| Profile fitting            | Replace letters with desired version:                          |
| A = side A fitted with ... | 0 = without fitting  |
| B = side B fitted with ... | 1 = fitted with airline lashing track along max. usable length |
| C = side C fitted with ... | 2 = fitted with elastic cord along max. usable length          |
| D = side D fitted with ... | For accessory parts, see page 136.                             |

-LLLL = minimum total length

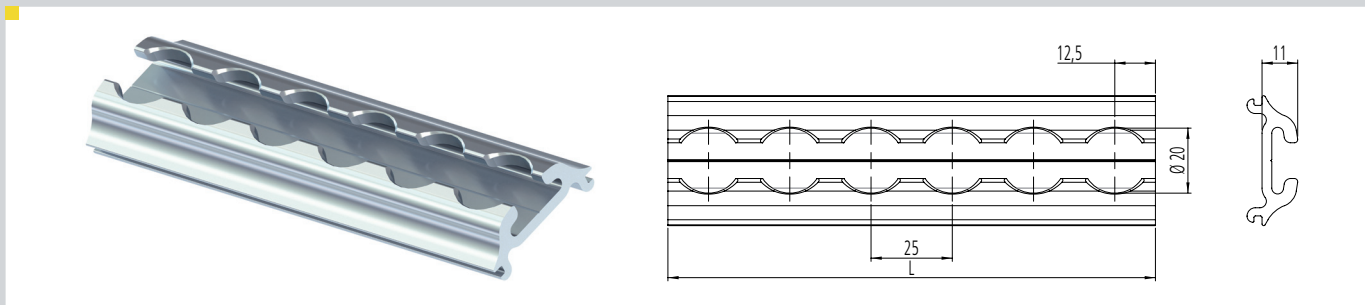


\*) Blocking force with even surface load

## „Spairbalken“ accessories

### Aluminium airline lashing track for inserting 5509

Weight: 560 g/m



| Designation                | length   | Item No. untreated   |
|----------------------------|----------|----------------------|
| Airline lashing track 5509 | 500 mm   | <b>21550920-0500</b> |
| Airline lashing track 5509 | 1,000 mm | <b>21550920-1000</b> |
| Airline lashing track 5509 | 1,975 mm | <b>21550920-1975</b> |
| Airline lashing track 5509 | 2,000 mm | <b>21550920-2000</b> |
| Airline lashing track 5509 | 2,400 mm | <b>21550920-2400</b> |

### End cap for airline lashing track 5509



**Item No. 215111001540**

Plastic, black

Unit of quantity: Pieces

### Round rubber band 6 mm

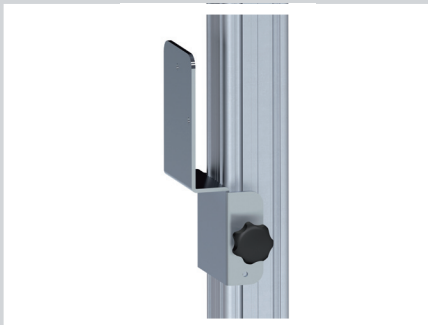


**Item No. 21550800-50000**

Rubber, black

Unit of quantity: 50 m

### Bow base for 25mm profile

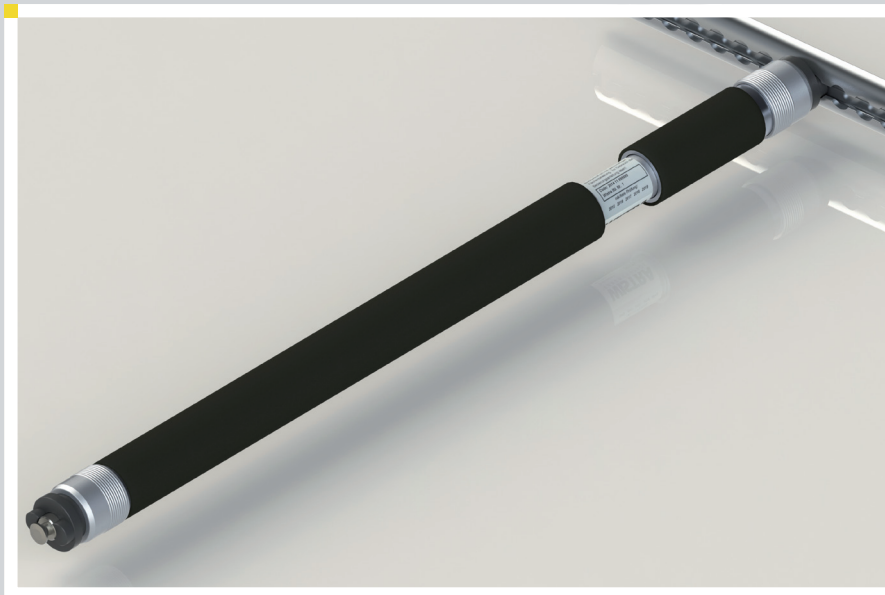


**Item No. 1618510000012**

Material: Steel galvanised

The bracket is clamped on the square profile and can be positioned as required. A dividing wall can be easily constructed with the connecting slabs.

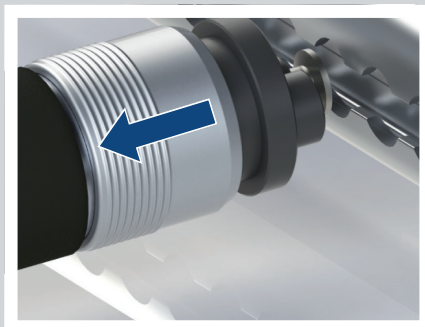
## WISTRA Airline Beam 1855



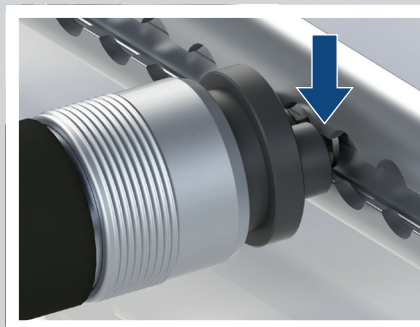
Example of a label

Can be customised with your logo and your address on request!

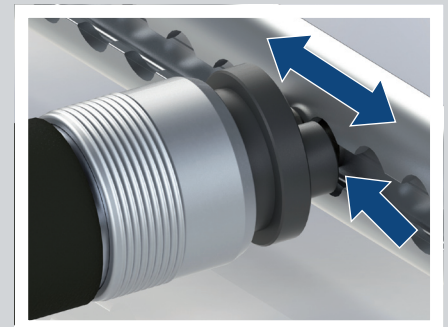
### 1. Unlocking



### 2. Inserting



### 3. Shifting



### 4. Locking



| Design            | Item No.           | Telescoping range L1 – L2 | Blocking force*) |
|-------------------|--------------------|---------------------------|------------------|
| Airline Beam 1855 | <b>221855-0800</b> | 800 – 950 mm              | 450 – 350 daN    |
| Airline Beam 1855 | <b>221855-0900</b> | 900 – 1150 mm             | 350 – 300 daN    |
| Airline Beam 1855 | <b>221855-1000</b> | 1000 – 1350 mm            | 350 – 250 daN    |
| Airline Beam 1855 | <b>221855-1100</b> | 1100 – 1550 mm            | 300 – 200 daN    |
| Airline Beam 1855 | <b>221855-1200</b> | 1200 – 1750 mm            | 300 – 200 daN    |
| Airline Beam 1855 | <b>221855-1300</b> | 1300 – 1900 mm            | 300 – 150 daN    |
| Airline Beam 1855 | <b>221855-1400</b> | 1400 – 2050 mm            | 300 – 150 daN    |
| Airline Beam 1855 | <b>221855-1500</b> | 1500 – 2200 mm            | 300 – 150 daN    |
| Airline Beam 1855 | <b>221855-1600</b> | 1600 – 2350 mm **)        | 300 – 150 daN    |
| Airline Beam 1855 | <b>221855-1700</b> | 1700 – 2500 mm **)        | 300 – 100 daN    |
| Airline Beam 1855 | <b>221855-1800</b> | 1800 – 2650 mm **)        | 300 – 100 daN    |
| Airline Beam 1855 | <b>221855-1900</b> | 1900 – 2800 mm **)        | 300 – 100 daN    |

\*) Blocking force with even surface load depending on extension length

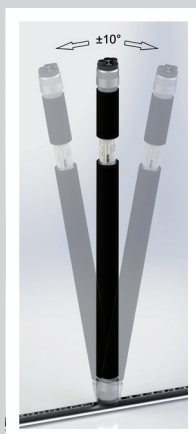
\*\*) In case of vertical application observe working height

## Product description

In connection with the parallel-running airline lashing track in the vehicle, the trailer or other means of transport, the AIRLINE BEAM ensures form-locking load securing.

The AIRLINE BEAM can be used horizontally and vertically for load securing.

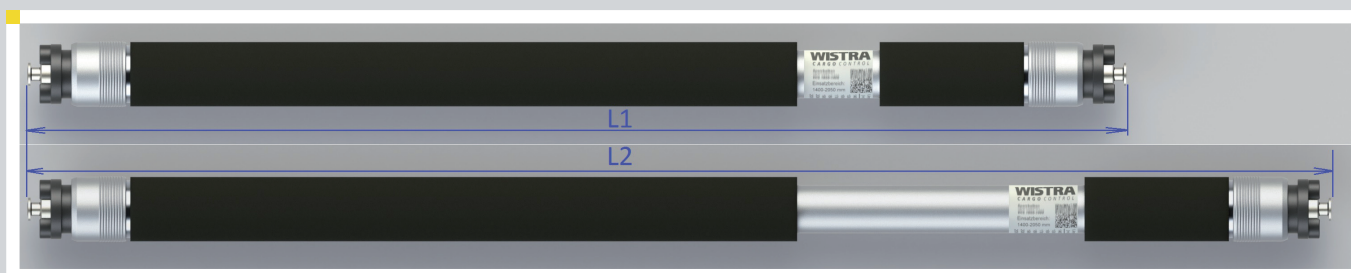
The automatic airline pins on both sides each engage in one hole pair of the airline lashing track.



|   | Advantages   |                                    |                              |
|---|--------------|------------------------------------|------------------------------|
|   | for the user | for the transport vehicle/the load | compared to similar products |
| Suited for horizontal and vertical application  | X            |                                    | X                            |
| Blocking forces BC between 450 daN and 150 daN in application ranges from 800 mm to 2300 mm, depending on design                                  | X            | X                                  | X                            |
| In connection with anti-slip materials, loads up to 2250 kg can be secured in driving direction with one AIRLINE BEAM.                            | X            | X                                  | X                            |
| Extensive technical documentation/operation manual  | X            |                                    | X                            |
| Smooth and continuous telescopic adjustment   | X            |                                    | X                            |
| No bulging operating elements in the complete application area  | X            | X                                  | X                            |
| Silent design with plastic slider and centring piece  | X            |                                    | X                            |
| Supporting tube and hand piece with PVC coating for comfortable handling even in cold outside temperatures, as well as for protection of the load | X            | X                                  | X                            |
| The automatic airline pins on both sides each engage in a hole pair of the airline lashing track.   | X            | X                                  | X                            |
| The automatic airline pins do not damage the material within the airline lashing track.   | X            | X                                  | X                            |
| Insertion of the Airline Beam does not require simultaneous application of pressure in both directions.   | X            | X                                  | X                            |
| The automatic airline pins cannot slide out because they lock into place when pressure is applied on the side wall.                               | X            | X                                  | X                            |
| Based on the locking in the airline lashing track, the system does not damage the transport vehicle.  | X            | X                                  | X                            |
| High-quality product label affixed in a protected spot on the telescopic tube near the hand piece   | X            |                                    | X                            |



| Name  | WIS item No.     | Unit             |
|---|------------------|------------------|
| Storage rail for two Airline Beams along the side | <b>215110010</b> | Set (= 2 pieces) |



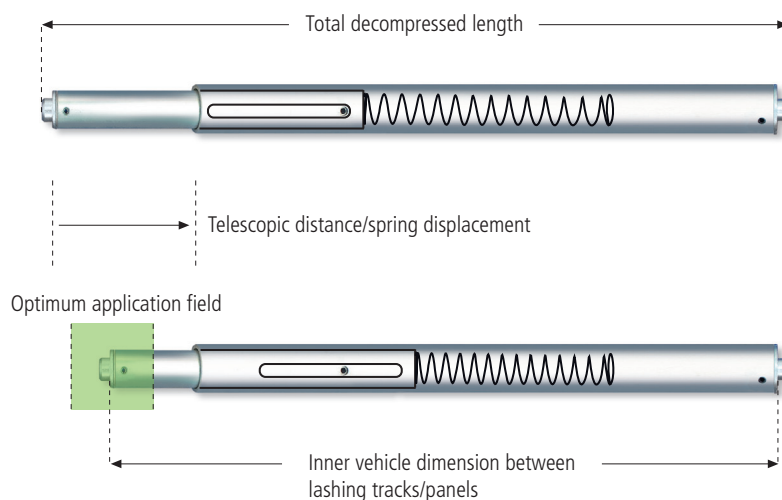
Telescoping range L1 – L2

## WISTRA Airline Beam 1855 – blocking forces BC

| at      | 221855<br>–800 | 221855<br>–900 | 221855<br>–1000 | 221855<br>–1100 | 221855<br>–1200 | 221855<br>–1300 | 221855<br>–1400 | 221855<br>–1500 | 221855<br>–1600 | 221855<br>–1700 | 221855<br>–1800 | 221855<br>–1900 |
|---------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 800 mm  | 450 daN        |                |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 850 mm  | 400 daN        |                |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 900 mm  | 350 daN        | 350 daN        |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 950 mm  | 350 daN        | 350 daN        |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 1000 mm |                | 300 daN        | 350 daN         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 1050 mm |                | 300 daN        | 300 daN         |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 1100 mm |                | 300 daN        | 300 daN         | 300 daN         |                 |                 |                 |                 |                 |                 |                 |                 |
| 1150 mm |                | 300 daN        | 300 daN         | 300 daN         |                 |                 |                 |                 |                 |                 |                 |                 |
| 1200 mm |                |                | 300 daN         | 300 daN         | 300 daN         |                 |                 |                 |                 |                 |                 |                 |
| 1300 mm |                |                | 250 daN         | 250 daN         | 250 daN         | 300 daN         |                 |                 |                 |                 |                 |                 |
| 1350 mm |                |                | 250 daN         | 250 daN         | 250 daN         | 300 daN         |                 |                 |                 |                 |                 |                 |
| 1400 mm |                |                |                 | 250 daN         | 250 daN         | 250 daN         | 300 daN         |                 |                 |                 |                 |                 |
| 1500 mm |                |                |                 | 200 daN         | 200 daN         | 250 daN         | 250 daN         | 300 daN         |                 |                 |                 |                 |
| 1550 mm |                |                |                 | 200 daN         | 200 daN         | 200 daN         | 250 daN         | 300 daN         |                 |                 |                 |                 |
| 1600 mm |                |                |                 |                 | 200 daN         | 200 daN         | 200 daN         | 250 daN         | 300 daN         |                 |                 |                 |
| 1700 mm |                |                |                 |                 | 200 daN         | 200 daN         | 200 daN         | 200 daN         | 250 daN         | 300 daN         |                 |                 |
| 1750 mm |                |                |                 |                 | 200 daN         | 150 daN         | 200 daN         | 200 daN         | 250 daN         | 300 daN         |                 |                 |
| 1800 mm |                |                |                 |                 |                 | 150 daN         | 150 daN         | 200 daN         | 200 daN         | 250 daN         | 300 daN         |                 |
| 1900 mm |                |                |                 |                 |                 | 150 daN         | 150 daN         | 150 daN         | 200 daN         | 250 daN         | 250 daN         | 300 daN         |
| 1950 mm |                |                |                 |                 |                 |                 | 150 daN         | 150 daN         | 150 daN         | 200 daN         | 250 daN         | 300 daN         |
| 2000 mm |                |                |                 |                 |                 |                 | 150 daN         | 150 daN         | 150 daN         | 150 daN         | 200 daN         | 250 daN         |
| 2050 mm |                |                |                 |                 |                 |                 | 150 daN         | 150 daN         | 150 daN         | 150 daN         | 200 daN         | 250 daN         |
| 2100 mm |                |                |                 |                 |                 |                 |                 | 150 daN         | 150 daN         | 150 daN         | 150 daN         | 200 daN         |
| 2200 mm |                |                |                 |                 |                 |                 |                 | 150 daN         | 150 daN         | 150 daN         | 150 daN         | 150 daN         |
| 2250 mm |                |                |                 |                 |                 |                 |                 |                 | 150 daN         | 150 daN         | 150 daN         | 150 daN         |
| 2300 mm |                |                |                 |                 |                 |                 |                 |                 | 150 daN         | 150 daN         | 150 daN         | 150 daN         |
| 2350 mm |                |                |                 |                 |                 |                 |                 |                 | 150 daN         | 100 daN         | 150 daN         | 150 daN         |
| 2400 mm |                |                |                 |                 |                 |                 |                 |                 |                 | 100 daN         | 100 daN         | 100 daN         |
| 2500 mm |                |                |                 |                 |                 |                 |                 |                 |                 | 100 daN         | 100 daN         | 100 daN         |
| 2550 mm |                |                |                 |                 |                 |                 |                 |                 |                 |                 | 100 daN         | 100 daN         |
| 2650 mm |                |                |                 |                 |                 |                 |                 |                 |                 |                 | 100 daN         | 100 daN         |
| 2800 mm |                |                |                 |                 |                 |                 |                 |                 |                 |                 |                 | 100 daN         |

The blocking forces apply with even surface load of the Airline Beam.

## Selection aid for the right shoring beam

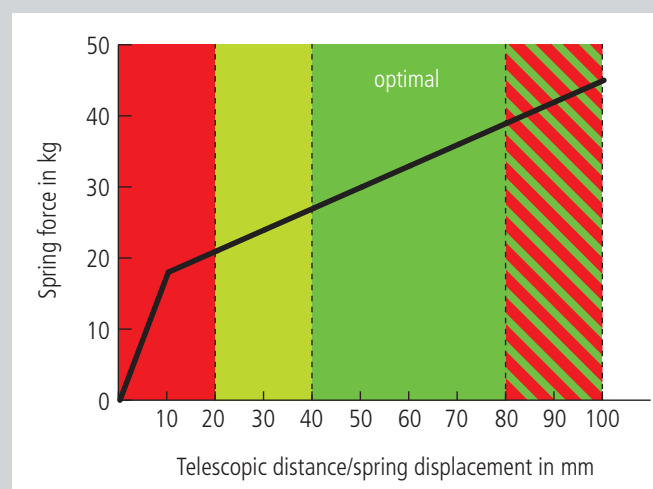
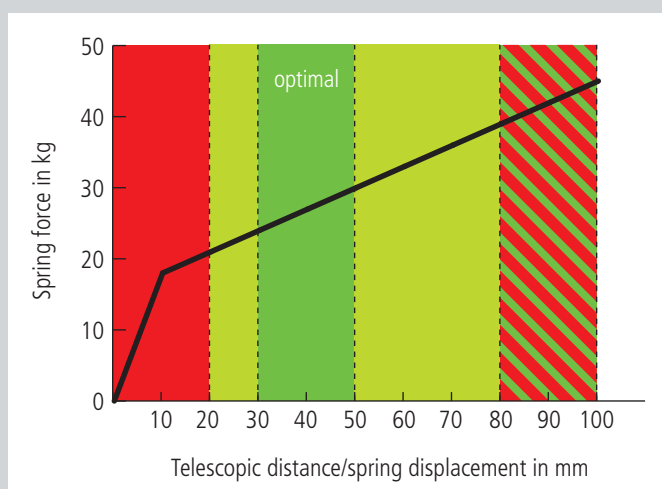


## Recommendation

Application range: up to 2000 mm inner dimension



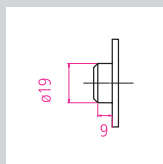
Application range: as from 2000 mm inner dimension



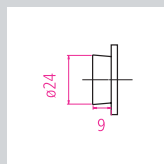


## WISTRA standard aluminium power shoring beam 1850

### End pin versions



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



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

Additional pin versions upon  
request



Blocking Capacity BC 700 daN  
ø 50 mm

Version of rod lashing tracks is deviant

| Standard version                 | Item No.<br><b>XX</b> for pin version | For vehicle internal dimension |
|----------------------------------|---------------------------------------|--------------------------------|
| Aluminium shoring beam 185015 XX | <b>22185015 XX 20</b>                 | 2,400-2,480 mm                 |
| Aluminium shoring beam 185020 XX | <b>22185020 XX 20</b>                 | 2,440-2,520 mm                 |
| Aluminium shoring beam 185025 XX | <b>22185025 XX 20</b>                 | 2,500-2,580 mm                 |

| Customer-specific version             | Item No.<br><b>XX</b> for pin version | Please include the following data with your order<br>- Lashing track panel version<br>- free inside dimension between the tracks |
|---------------------------------------|---------------------------------------|--|
| Aluminium shoring beam 185080 XX-3000 | <b>22185080 XX 20</b>                 |  |

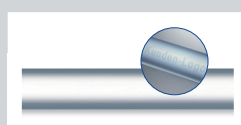
### Options



PVC cover with property  
marking



Additional property markings



Needle embossing

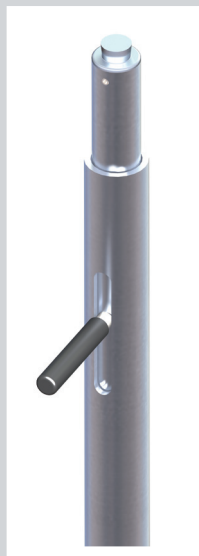


Powder coated versions



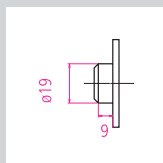
Tracking-loop for telescopic  
tube

# WISTRA standard aluminium power shoring beam *ergo* 1854

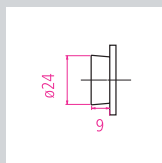


Ø 50 mm

## End pin versions



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



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

Additional pin versions upon  
request

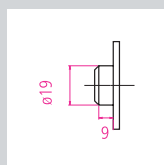
| Designation<br>Examples – application<br>lengths according to<br>customer specifica-<br>tions! | Item No.      |             |                                | BC daN *) |
|--|---------------|-------------|--------------------------------|-----------|
|  | Version       | Pin Version | Application length<br>+/-25 mm |           |
| Alu-Sperrbalken 1854   | <b>221854</b> | <b>09</b>   | <b>-2000</b>                   | 700 daN   |
| Alu-Sperrbalken 1854   | <b>221854</b> | <b>24</b>   | <b>-2500</b>                   | 700 daN   |

\*) Blocking force with even surface load

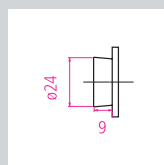


# WISTRA standard shoring beams

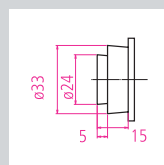
## End pin versions



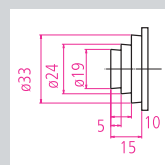
19 mm pin,  
cylindrical  
**Version: 09**



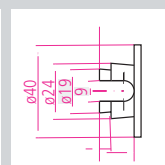
24 mm pin,  
conical  
**Version: 24**



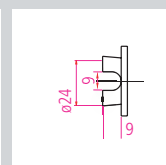
24 / 33 mm combi pin,  
conical  
**Version: 43**



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

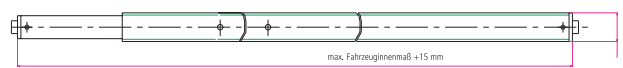
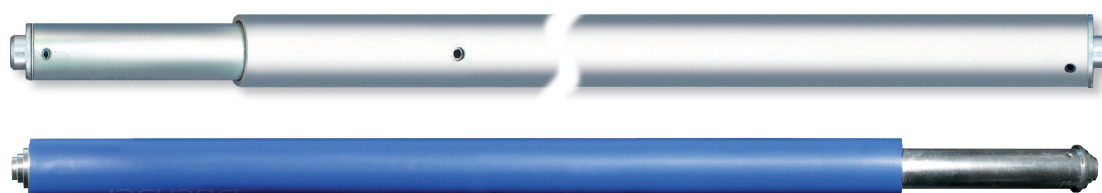


19 / 24 mm pin for key-  
hole track, cylindrical  
**Version: 45**



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

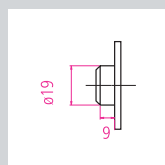
| Standard version               | Item No.<br><b>XX</b> for pin version | For vehicle internal dimension |
|--------------------------------|---------------------------------------|--------------------------------|
| Aluminium shoring beam 1813 XX | <b>22181300 XX 20</b>                 | 2,000-2,080 mm                 |
| Steel shoring beam 1813 XX     | <b>22181300 XX 12</b>                 | 2,000-2,080 mm                 |
| Aluminium shoring beam 1818 XX | <b>22181800 XX 20</b>                 | 2,400-2,480 mm                 |
| Steel shoring beam 1818 XX     | <b>22181800 XX 12</b>                 | 2,400-2,480 mm                 |
| Aluminium shoring beam 1817 XX | <b>22181700 XX 20</b>                 | 2,440-2,520 mm                 |
| Steel shoring beam 1817 XX     | <b>22181700 XX 12</b>                 | 2,440-2,520 mm                 |
| Aluminium shoring beam 1819 XX | <b>22181900 XX 20</b>                 | 2,500-2,580 mm                 |
| Steel shoring beam 1819 XX     | <b>22181900 XX 12</b>                 | 2,500-2,580 mm                 |

| Standard versions with PVC Cover   | Item No.<br><b>XX</b> for pin version | For vehicle internal dimension |
|------------------------------------|---------------------------------------|--------------------------------|
| Aluminium shoring beam 1813 XX PVC | <b>22181300 XX 20Ü</b>                | 2,000-2,080 mm                 |
| Steel shoring beam 1813 XX PVC     | <b>22181300 XX 12Ü</b>                | 2,000-2,080 mm                 |
| Aluminium shoring beam 1818 XX PVC | <b>22181800 XX 20Ü</b>                | 2,400-2,480 mm                 |
| Steel shoring beam 1818 XX PVC     | <b>22181800 XX 12Ü</b>                | 2,400-2,480 mm                 |
| Aluminium shoring beam 1817 XX PVC | <b>22181700 XX 20Ü</b>                | 2,440-2,520 mm                 |
| Steel shoring beam 1817 XX PVC     | <b>22181700 XX 12Ü</b>                | 2,440-2,520 mm                 |
| Aluminium shoring beam 1819 XX PVC | <b>22181900 XX 20Ü</b>                | 2,500-2,580 mm                 |
| Steel shoring beam 1819 XX PVC     | <b>22181900 XX 12Ü</b>                | 2,500-2,580 mm                 |

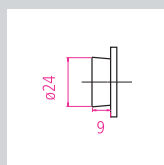
# WISTRA shoring beams with special lengths



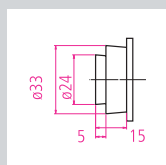
## End pin versions



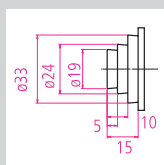
19 mm pin,  
cylindrical  
**Version: 09**



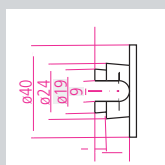
24 mm pin,  
conical  
**Version: 24**



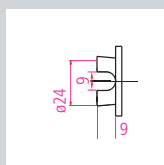
24 / 33 mm combi pin,  
conical  
**Version: 43**



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

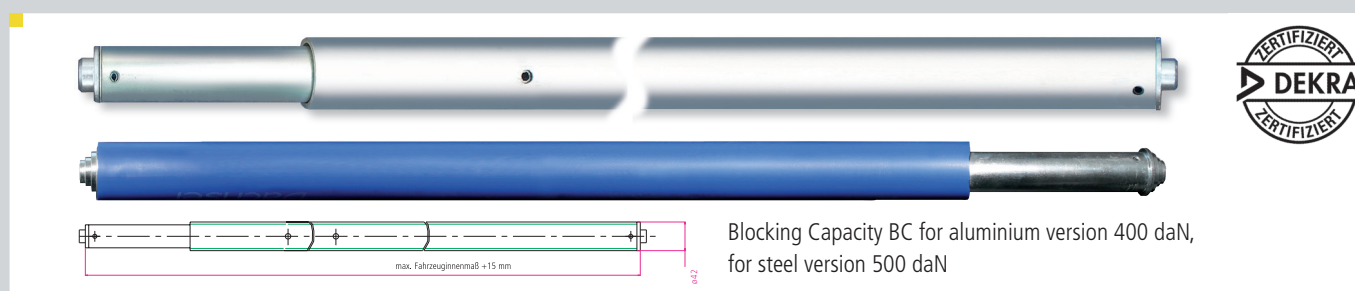


19 / 24 mm pin for key-  
hole track, cylindrical  
**Version: 45**



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

Version of rod lashing tracks is deviant

| Versions to shorten<br>on the stay pipe side with included pin, telescope side already mounted | Item No.<br><b>XX</b> for pin version |
|--|---------------------------------------|
| 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<br>on the stay pipe end with included pin, telescope side already mounted | Item No.<br><b>XX</b> for pin version |
|--|---------------------------------------|
| 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>on 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. 2,380 mm carrier | <b>221899 XX 20-2380</b>           | - Lashing track panel version                     |
| Steel shoring beam 1899 XX-max. 2,380 mm carrier     | <b>221899 XX 12-2380</b>           | - free inside dimension between the tracks        |
| Aluminium shoring beam 1899 XX-max. 3,000 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. 2,380 mm carrier PVC | <b>221899 XX 20Ü-2380</b>            | - Lashing track panel version                     |
| Steel shoring beam 1899 XX-max. 2,380 mm carrier PVC     | <b>221899 XX 12Ü-2380</b>            | - free inside dimension between the tracks        |
| Aluminium shoring beam 1899 XX-max. 3,000 mm carrier PVC | <b>See version 1850 - on request</b> |   |
| Steel shoring beam 1899 XX-max. 3,000 mm carrier PVC     | <b>221899 XX 12Ü-3000</b>            |   |

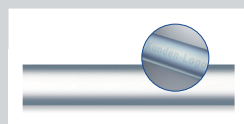
## Options



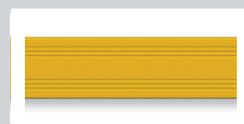
PVC cover with property marking



Additional property markings



Needle embossing



Powder coated versions

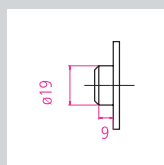


Tracking-loop for telescopic tube

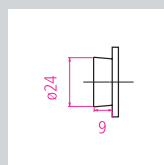


# WISTRA shoring beams with special lengths for transporter

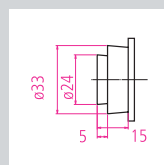
## End pin versions



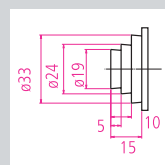
19 mm pin,  
cylindrical  
**Version: 09**



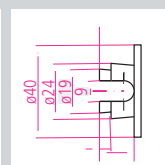
24 mm pin,  
conical  
**Version: 24**



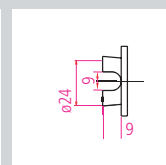
24 / 33 mm combi pin,  
conical  
**Version: 43**



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

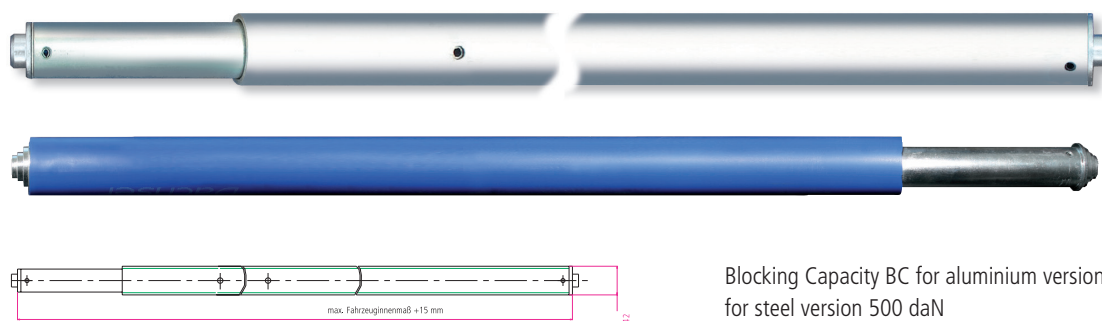


19 / 24 mm pin for key-  
hole track, cylindrical  
**Version: 45**



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.<br><b>XX</b> for pin version |
|---|---------------------------------------|
| 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.<br><b>XX</b> for pin version |
|---|---------------------------------------|
| 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

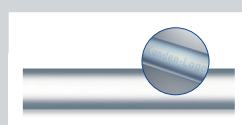
## Options



PVC cover with property  
marking



Additional property markings



Needle embossing



Powder coated versions

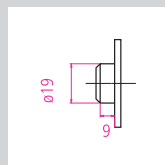


Tracking-loop for telescopic  
tube

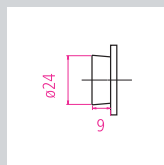
## WISTRA standard shoring beams, adjustable



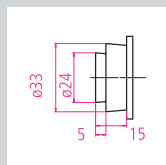
### End pin versions



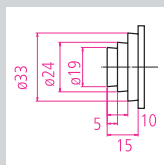
19 mm pin,  
cylindrical  
**Version: 09**



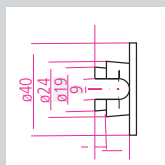
24 mm pin,  
conical  
**Version: 24**



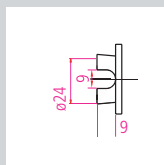
24 / 33 mm combi pin,  
conical  
**Version: 43**



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.<br><b>XX</b> for pin version | For vehicle internal dimension |
|--------------------------------|---------------------------------------|--------------------------------|
| Aluminium shoring beam 1808 XX | <b>22180800 XX 20</b>                 | 2,220 – 2,650 mm               |
| Steel shoring beam 1811 XX     | <b>22181100 XX 12</b>                 | 2,220 – 2,650 mm               |

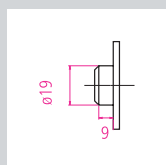
  

| Standard versions with PVC cover   | Item No.<br><b>XX</b> for pin version | For vehicle internal dimension |
|------------------------------------|---------------------------------------|--------------------------------|
| Aluminium shoring beam 1808 XX PVC | <b>22180800 XX 20Ü</b>                | 2,220 – 2,650 mm               |
| Steel shoring beam 1811 XX PVC     | <b>22181100 XX 12Ü</b>                | 2,220 – 2,650 mm               |

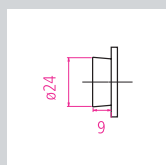
# WISTRA shoring beams, adjustable with special lengths



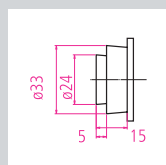
## End pin versions



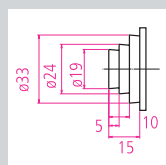
19 mm pin,  
cylindrical  
**Version: 09**



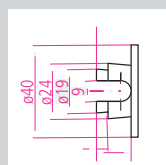
24 mm pin,  
conical  
**Version: 24**



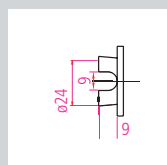
24 / 33 mm combi pin,  
conical  
**Version: 43**



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.<br><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. 2,650 mm |
| Aluminium shoring beam 180899 XX-3000 | <b>on request</b>                     | for longer versions                            |
| Steel shoring beam 181199 XX          | <b>22181199 XX 12</b>                 | up to vehicle internal dimension max. 2,650 mm |
| Steel shoring beam 181199 XX-3000     | <b>on request</b>                     | for longer versions                            |

Please include the  
following data with  
your order

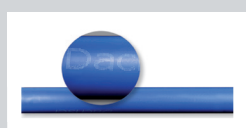
- Lashing track panel  
version
- free inside  
dimension between  
from - to

| Customer-specific version with PVC cover | Item No.<br><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. 2,650 mm |
| Aluminium shoring beam 180899 XX-3000    | <b>on request</b>                     | for longer versions                            |
| Steel shoring beam 181199 XX PVC         | <b>22181199 XX 12Ü</b>                | up to vehicle internal dimension max. 2,650 mm |
| Steel shoring beam 181199 XX-3000 PVC    | <b>on request</b>                     | for longer versions                            |

Please include the  
following data with  
your order

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

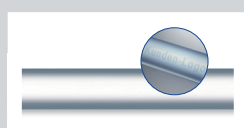
## Options



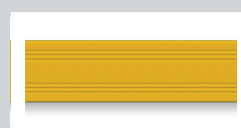
PVC cover with property  
marking



Additional property markings



Needle embossing



Powder coated versions

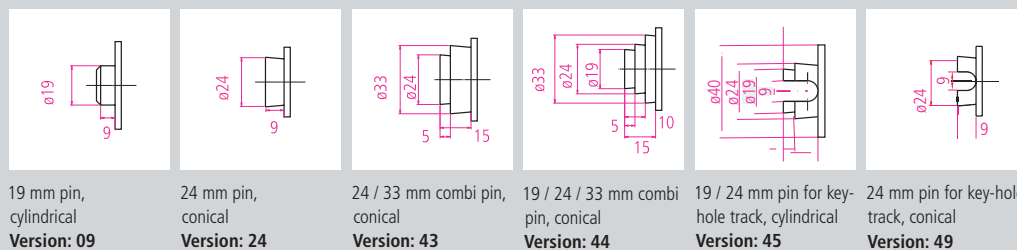


Tracking-loop for telescopic  
tube

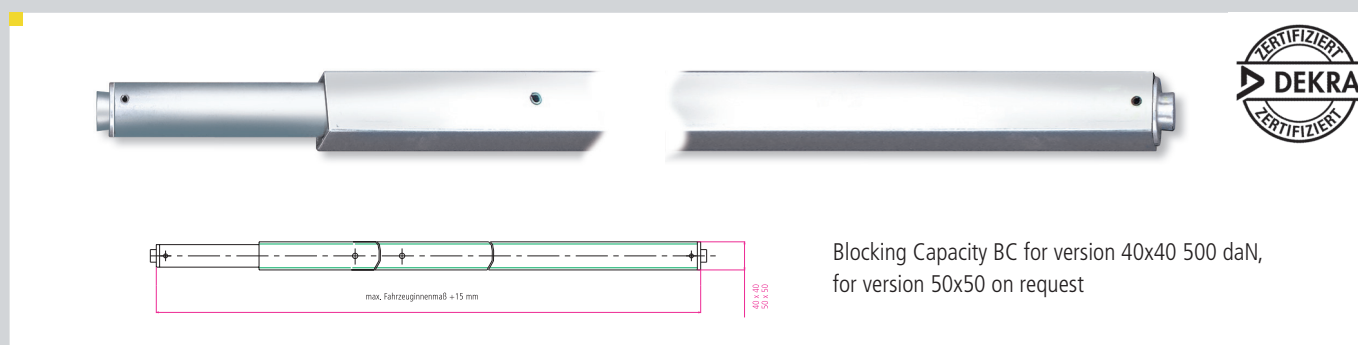
# WISTRA standard square shoring beams



## End pin versions



Additional pin versions upon request



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

Version of rod lashing tracks is deviant

| Standard version 40x40 mm  | Item No.<br><b>XX</b> for pin version | For vehicle internal dimension |
|----------------------------|---------------------------------------|--------------------------------|
| Steel shoring beam 1828 XX | <b>22182800 XX 12</b>                 | 2,400-2,480 mm                 |
| Steel shoring beam 1827 XX | <b>22182700 XX 12</b>                 | 2,440-2,520 mm                 |
| Steel shoring beam 1829 XX | <b>22182900 XX 12</b>                 | 2,500-2,580 mm                 |

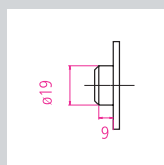
  

| Standard version 50x50     | Item No.<br><b>XX</b> for pin version | Please include the following data with your order                           |
|----------------------------|---------------------------------------|---|
| Steel shoring beam 1852 XX | <b>on request</b>                     | - Lashing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

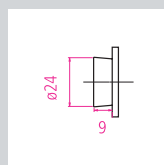


## WISTRA standard square shoring beams, adjustable

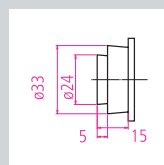
### End pin versions



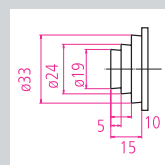
19 mm pin,  
cylindrical  
**Version: 09**



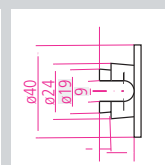
24 mm pin,  
conical  
**Version: 24**



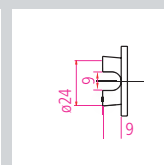
24 / 33 mm combi pin,  
conical  
**Version: 43**



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



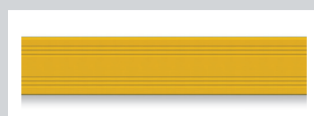
Blocking Capacity BC 500 daN

| Standard version 40x40 mm  | Item No.<br><b>XX</b> for pin version | For vehicle internal dimension |
|----------------------------|---------------------------------------|--------------------------------|
| Steel shoring beam 1812 XX | <b>22181200 XX 12</b>                 | 2,220 – 2,650 mm               |

### Options



Needle embossing



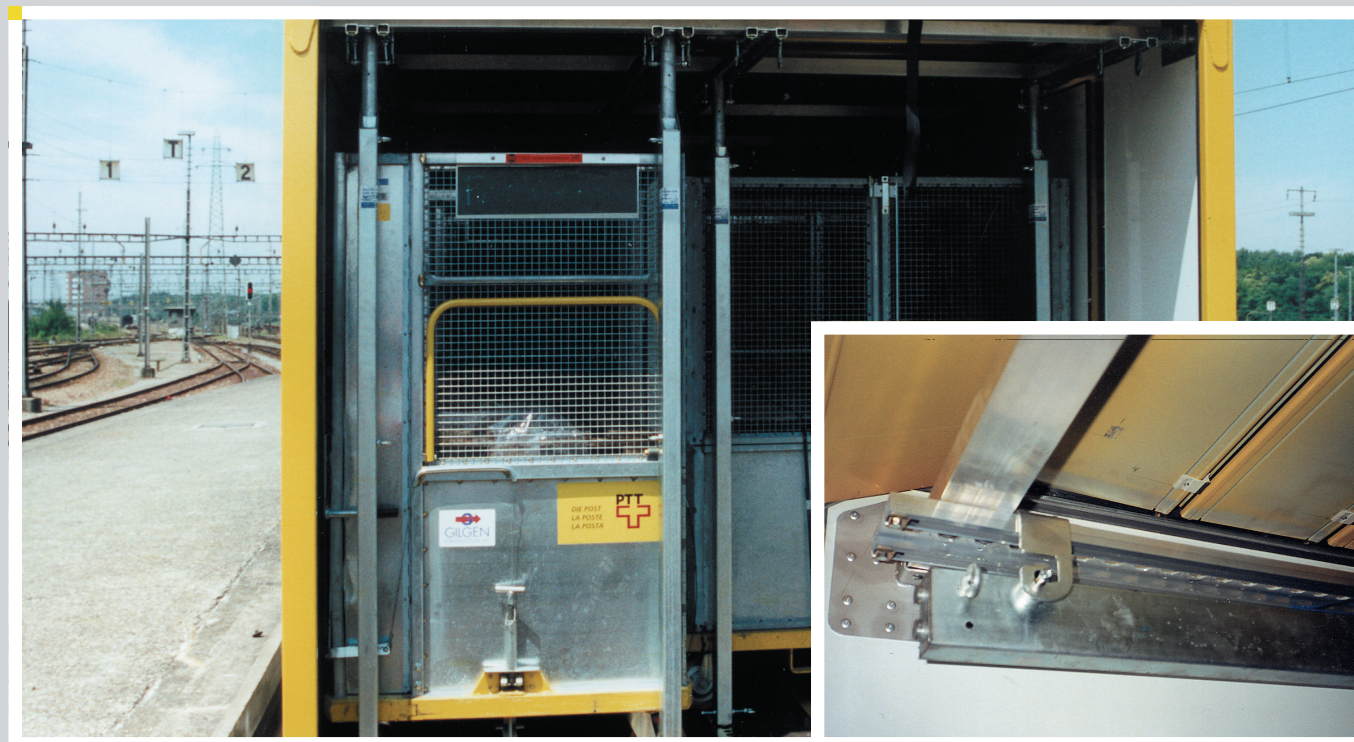
Powder coated versions



Tracking-loop for telescopic  
tube

customer-specialised  
versions on request

## 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<br>Material profile steel     | Pieces           | <b>on request</b> |
| WISTRA shoring beam system Power Stop, guided by rolls<br>Material profile aluminium | Pieces           | <b>on request</b> |
| Lashing tracks 3004 flat pieces  | Pieces           | <b>on request</b> |
| Lashing tracks 3004 50 U-profile   | Pieces           | <b>on 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

## WISTRA shoring beam system lock

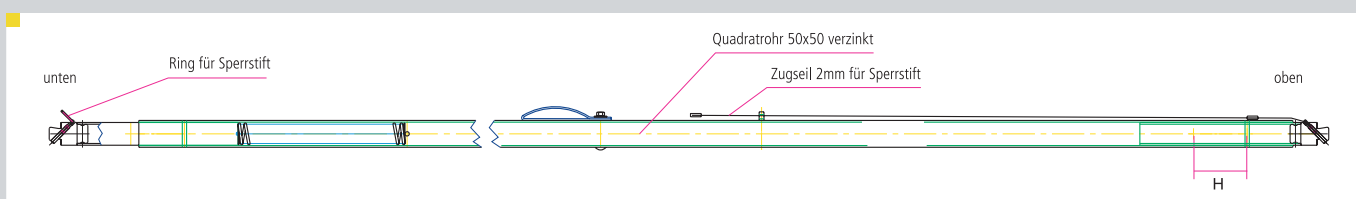


WISTRA shoring beam lock is a form-fit system with pin latching in the lashing tracks.

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>on request</b> |
| Lashing tracks 3004 flat        | Pieces           | <b>on request</b> |
| Lashing tracks 3004 U-profile   | Pieces           | <b>on 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 paper reels.

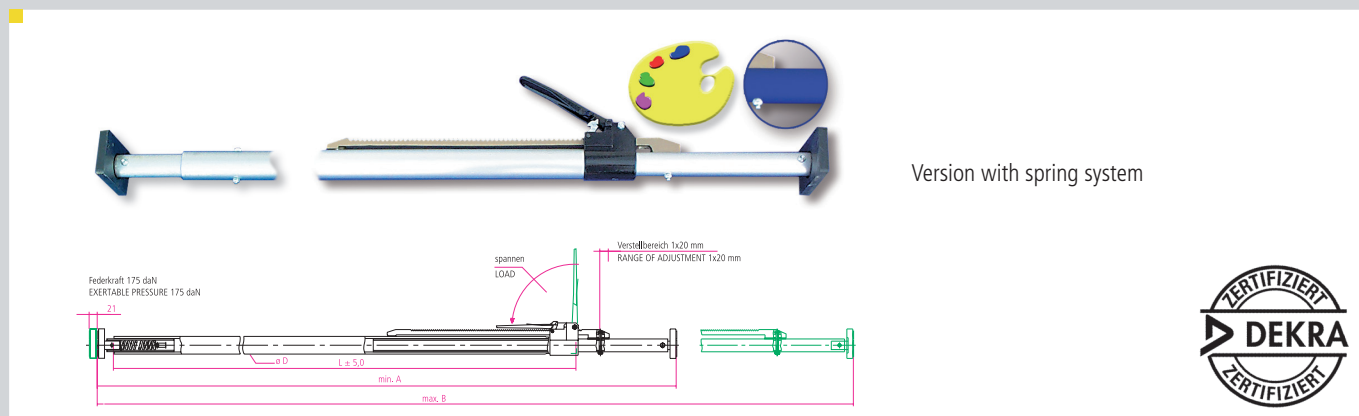
### Advantages:

- 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>on request</b> |
| Lashing tracks 3004 53 flat           | Pieces           | <b>on request</b> |
| Lashing tracks 3004 53 U-profile      | Pieces           | <b>on request</b> |

# Cargo bar

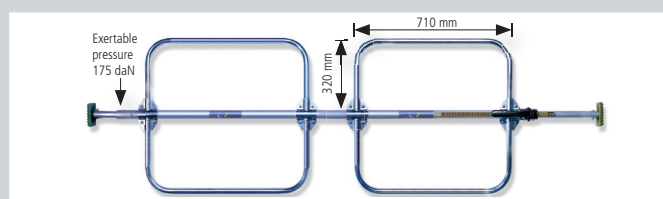
## WISTRA aluminium cargo bar



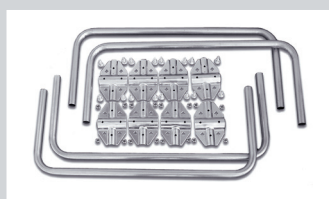
| Standard versions 38 mm | Item No.              | Application range | Weight | Blocking capacity *) |
|-------------------------|-----------------------|-------------------|--------|----------------------|
| Cargo bar 1867          | <b>2218670003</b>     | 1,300 - 1,670 mm  | 3.1 kg | up to 150 daN        |
| 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> | 2,500 - 2,870 mm  | 4.8 kg |                      |
| Cargo bar 1845          | <b>221845010020TW</b> | 2,650 - 3,020 mm  | 4.9 kg |                      |

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



| 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>   |

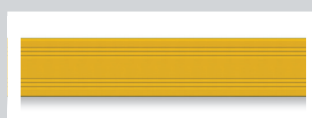


| Accessories       | Item No.            |
|-------------------|---------------------|
| Hoop set          |                     |
| for version 38 mm | <b>226700000012</b> |
| for version 42 mm | <b>224300000012</b> |

### Options

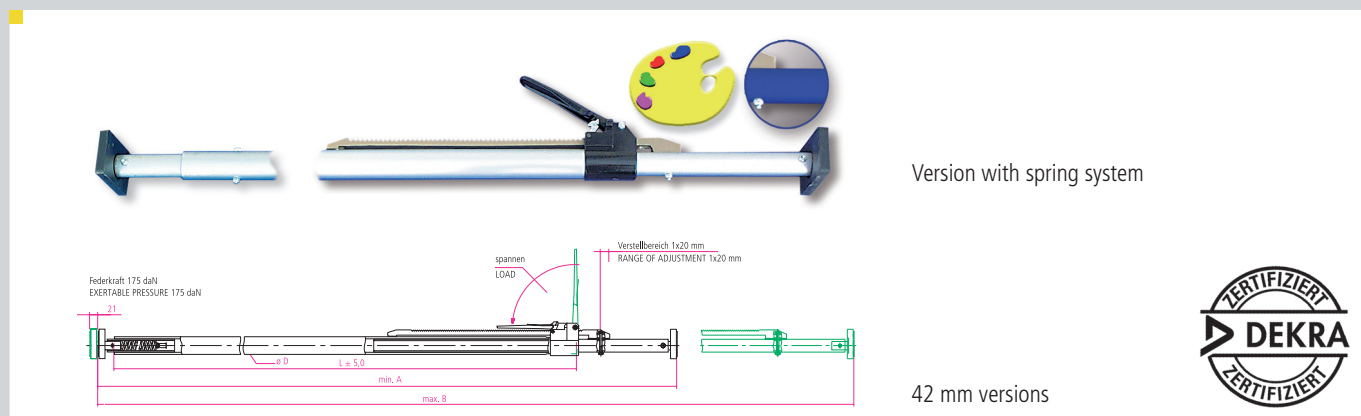


Needle embossing

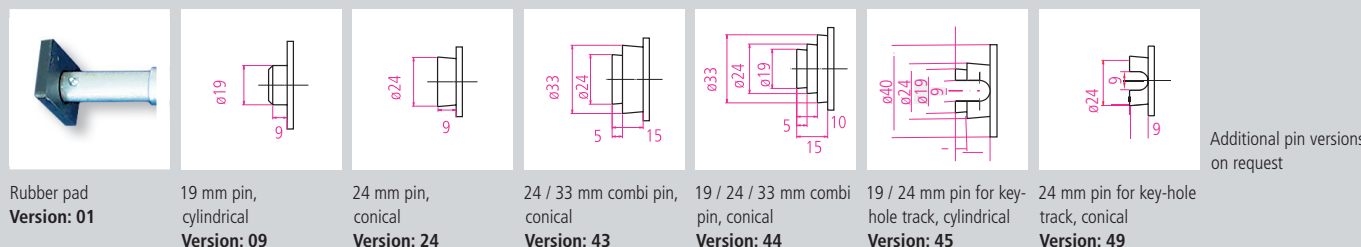


Powder coated versions

## 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 | 22186701 XX 20  | 2,260 – 2,630 mm  | 4.2 kg | up to 150 daN        |
| Cargo bar 1867 pin XX/rubber pad | 221867 XX 0120  |                   | 4.2 kg |                      |
| Cargo bar 1867 pin XX/pin XX     | 221867 XX XX 20 |                   | 4.2 kg |                      |

| Standard versions 42 mm          | Item No.        | Application range | Weight | Blocking capacity *) |
|----------------------------------|-----------------|-------------------|--------|----------------------|
| Cargo bar 1842 rubber pad/pin XX | 22184201 XX 20  | 2,100 – 2,470 mm  | 4.6 kg | up to 150 daN        |
| Cargo bar 1842 pin XX/rubber pad | 221842 XX 0120  |                   | 4.6 kg |                      |
| Cargo bar 1842 pin XX/pin XX     | 221842 XX XX 20 |                   | 4.6 kg |                      |
| Cargo bar 1843 rubber pad/pin XX | 22184301 XX 20  | 2,350 – 2,720 mm  | 4.7 kg |                      |
| Cargo bar 1843 pin XX/rubber pad | 221843 XX 0120  |                   | 4.7 kg |                      |
| Cargo bar 1843 pin XX/pin XX     | 221843 XX XX 20 |                   | 4.7 kg |                      |
| Cargo bar 1844 rubber pad/pin XX | 22184401 XX 20  | 2,500 – 2,870 mm  | 4.8 kg |                      |
| Cargo bar 1844 pin XX/rubber pad | 221844 XX 0120  |                   | 4.8 kg |                      |
| Cargo bar 1844 pin XX/pin XX     | 221844 XX XX 20 |                   | 4.8 kg |                      |
| Cargo bar 1845 rubber pad/pin XX | 22184501 XX 20  | 2,650 – 3,020 mm  | 4.9 kg |                      |
| Cargo bar 1845 pin XX/rubber pad | 221845 XX 0120  |                   | 4.9 kg |                      |
| Cargo bar 1845 pin XX/pin XX     | 221845 XX XX 20 |                   | 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 1840 | <b>221840000012</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 |

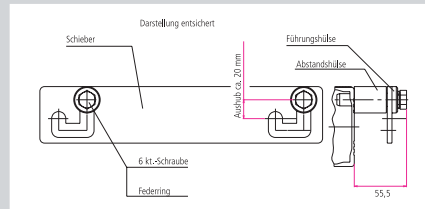


## WISTRA aluminium decking beam 1939 HQ with palette

### 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.

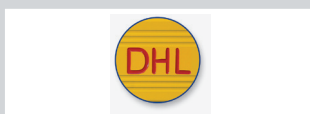


| Version with stay pipe length 2,250 mm and three mounted safety features for pallets | Item No.               | Application range | Blocking capacity / bearing capacity *) |
|--|------------------------|-------------------|---|
| Decking beam 1839 Type B - PL3   | <b>22183901-2250-3</b> | 2,310-2,400 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> | 2,370-2,590 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> | 2,470 - 2,690 mm  | 1,300/1,000 daN                         |

Palette is also available for Type A and Type AT.

### Options for the shown shoring beams



Engraving



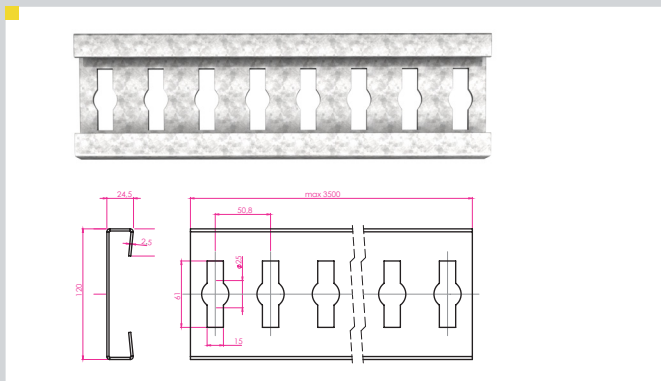
Needle embossing



Powder coated versions

# Longitudinal Bars

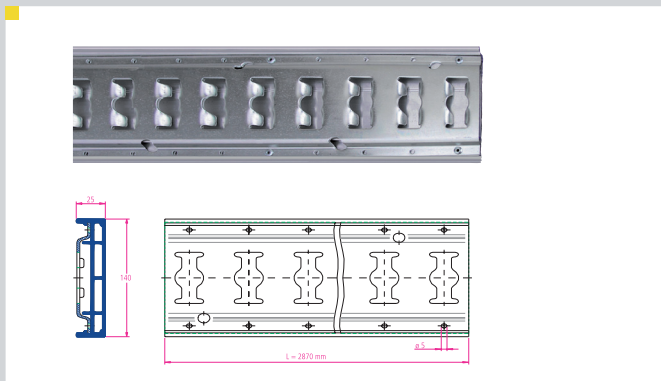
## Longitudinal Bars



### 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  
 Length: 3,500 mm or when placing the order please indicate the required length (XXXX)

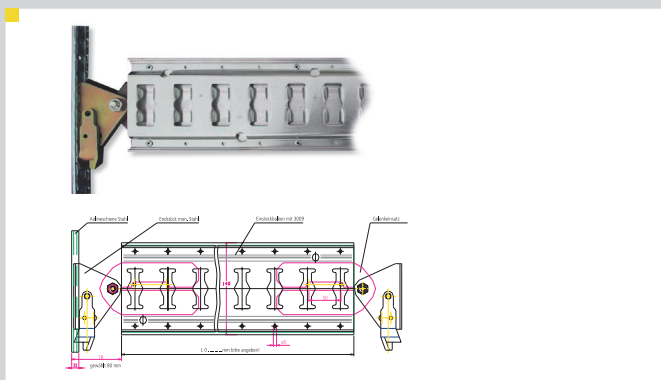
## Longitudinal Bars



### 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  
 Length: when placing the order please indicate the required length (XXXX)

## 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  
 Length: when placing the order please indicate the required length and the internal dimension between beads (XXXX)

# 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> |
| Protective cap end piece | <b>237459900140</b> |

## WISTRA Aluminium parting wall lock 7453



| Version           | Item No.            | Application range | Weight | Blocking capacity *) |
|-------------------|---------------------|-------------------|--------|----------------------|
| parting wall lock | <b>237453000020</b> | 2,400-2,700 mm    | 7.7 kg | 400 daN              |

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

### Options



Needle embossing

## WISTRA parting wall lock with pressure part and BoardClamp



Example in combination with WISTRA parting wall lock 7452

By combining the parting wall lock, the pressure part and the BoardClamp lashing strap, the blocking force increases by up to 100%, depending on the structural strength.

| Designation                          | Unit of quantity | Item No.            |
|--------------------------------------|------------------|---------------------|
| Deflector unit for parting wall lock | Pieces           | <b>160080000012</b> |

# 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 |

## Options



Needle embossing

## WISTRA parting wall options

### Parting wall lock WTV

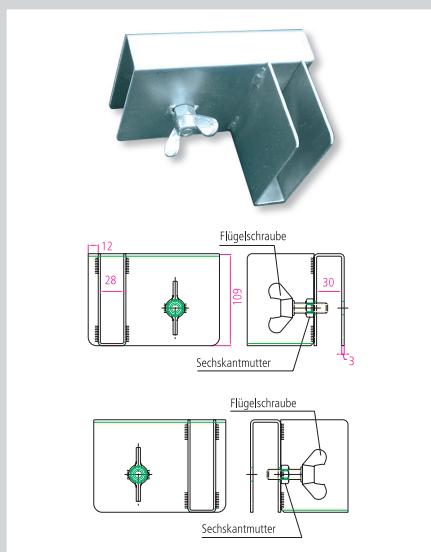


Clamping range 25-30 mm

LC up to 500 daN

| Designation            | Unit of quantity | Item No.         |
|------------------------|------------------|------------------|
| WTV 1000 0,5+3,0 green | Pieces           | <b>237552010</b> |
| WTV 1000 0,5+3,5 green | Pieces           | <b>237552011</b> |
| WTV 1000 0,5+4,5 green | Pieces           | <b>237552012</b> |
| WTV 1000 0,5+5,5 green | Pieces           | <b>237552013</b> |
| WTV 1000 0,5+6,5 green | Pieces           | <b>237552014</b> |
| WTV 1000 0,5+7,5 green | Pieces           | <b>237552015</b> |

### Clamp keepers

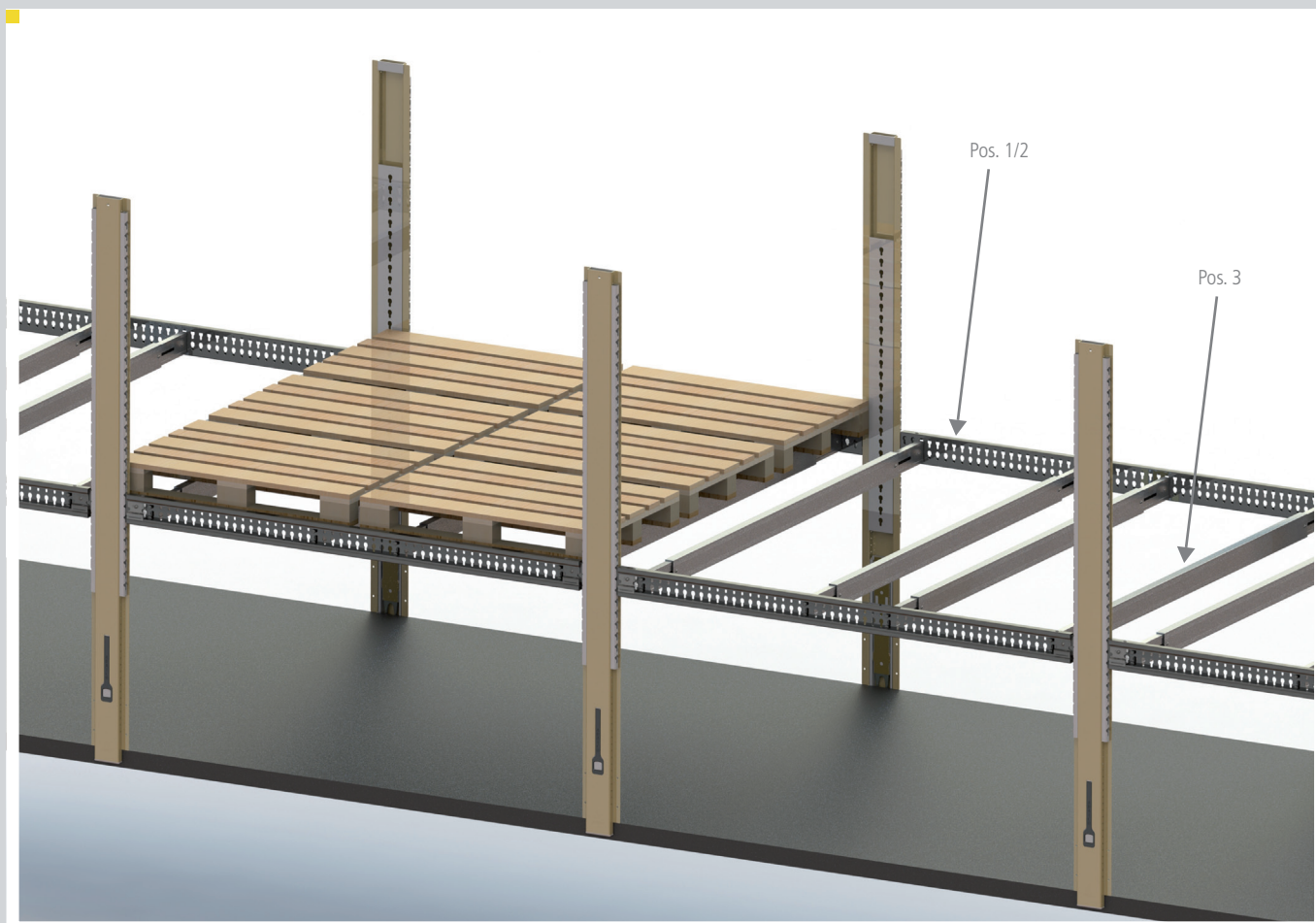


Steel, galvanised

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

# Wistra double storey systems for Curtain sider

Advantages: Utilisation of the transport volume with non-stackable packages



System components for 13.62m standard semi-trailer (other dimensions on request):

| Pos. | Designation      | Standard length | Item No.                | Max. load | quantity |
|------|------------------|-----------------|-------------------------|-----------|----------|
| 1    | Longitudinal bar | 2,220 mm        | <b>22 8000 97 01 15</b> | 1,500 daN | 10       |
| 2    | Longitudinal bar | 1,070 mm        | <b>22 8000 97 02 15</b> | 1,500 daN | 2        |
| 3    | Carrier bar      | 2,000 mm        | <b>22 8000 87 00 20</b> | 1,000 daN | 22       |

## Description:

- Creation of storage space for 33 euro pallets on the 2nd level
- Max. pallet weight with longitudinal bar in standard length: 500 kg
- Longitudinal latching of the carrier bars for stabilising the vehicle body
- Additional diagonal lashing is possible
- The carrier bar placement surface for the pallets is approx. 15 mm below the top edge of the longitudinal bar and serves as a pallet

stop. This avoids sliding of the pallets into the tarpaulin

- Standard raster of 50 mm of the double cone 20
- Flush load securing through additional longitudinal and carrier bars possible.

The maximum strain on the form closure with even strain is 500 daN. Prerequisite for these strain values is sufficient structural strength (Code XL certificate with standard semi-trailers)

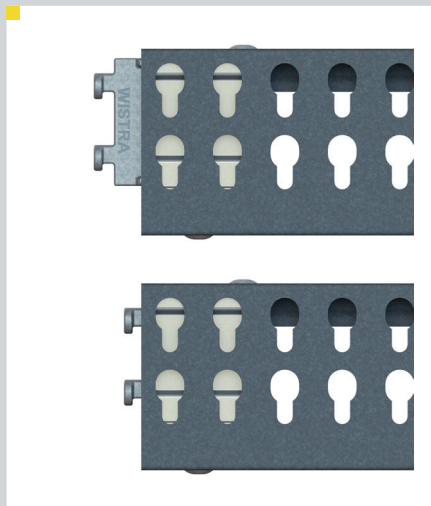
Note: The max. total load-bearing capacity of the 2nd loading level is specified by the semitrailer manufacturer.

## Application range and special lengths

### Ad Item. 1 (longitudinal steel beams with keyhole):

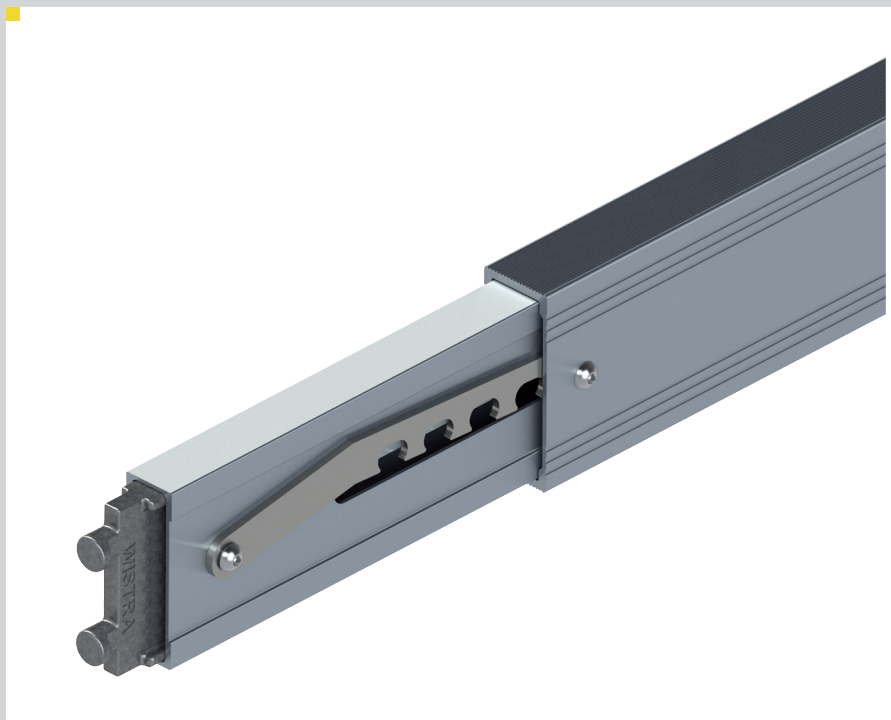
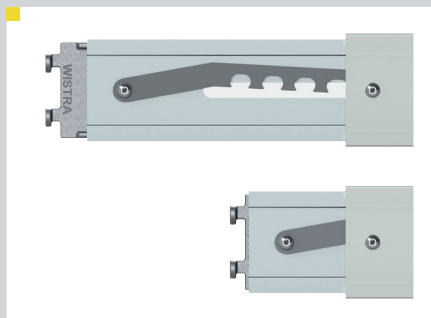
Profile length = 2,200 mm → Application range from 2,225 mm ... 2,240 mm +/- 5 mm  
 1,070 mm → Application range from 1,095 mm ... 1,110 mm +/- 5 mm

Profile lengths with e.g. ADAICO second decking pillar: 2,228 mm, 2,232 mm and 1,098 mm

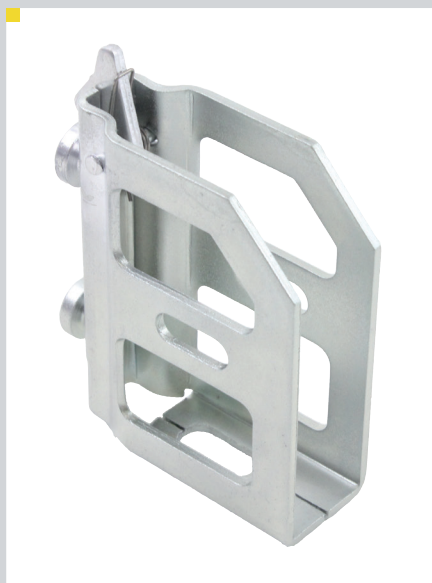


### Ad Item. 3 (Aluminium carrier bars with extensions on both sides and length limiter):

Profile length = 2,000 mm → Application range from 2,220 mm ... 2,510 mm +/- 5 mm



## Bow base support for dual-storey curtain sider



| Designation                                    | Unit of quantity | Weight  | Item No.         |
|--|------------------|---------|------------------|
| Bow base support for dual-storey curtain sider | Pieces           | 0.34 kg | <b>228010001</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.

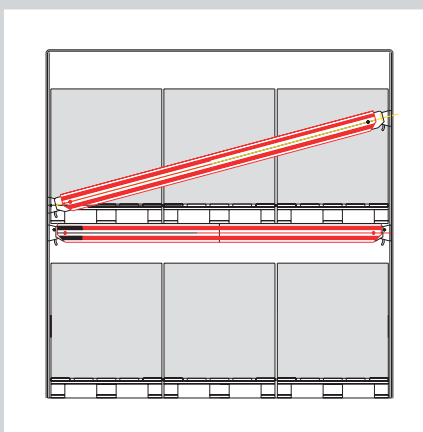
The rigidly mounted inserts allow a wide range of application in the free inside dimension due to their telescoping capability.



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

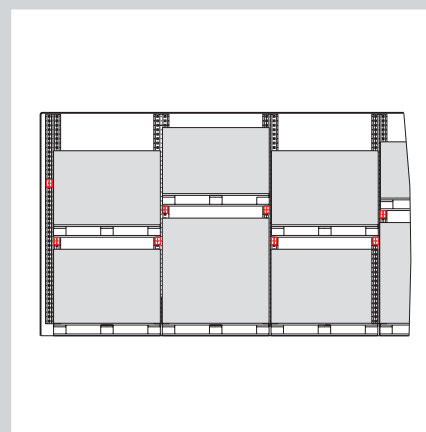
WISTRA sliding decking beams can be slid under the ceiling when they are not in use.

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



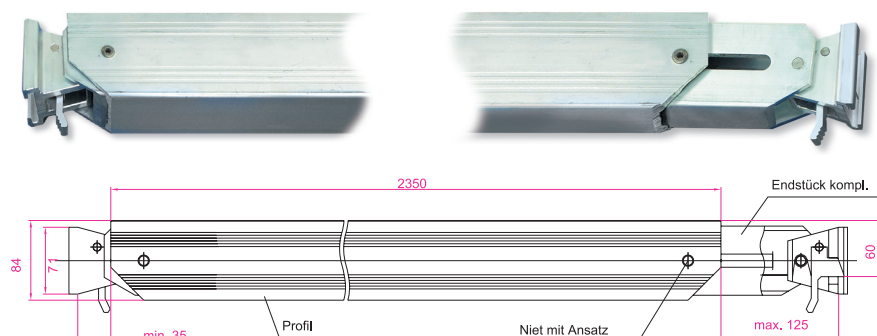
Side view:

Use of sliding decking beams as double storey system

# WISTRA sliding decking beams

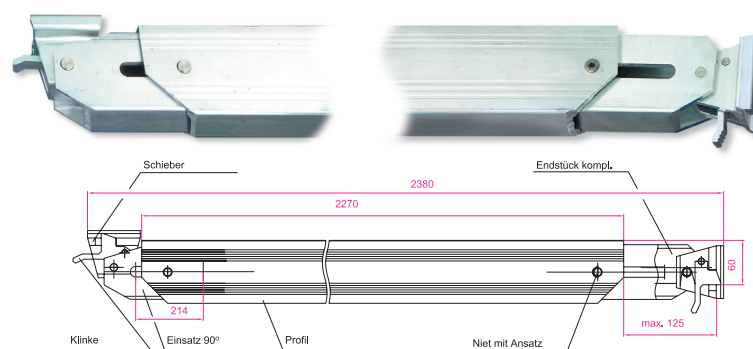
**Sliding decking beam 7007** (Guiding tracks 7002, 7003 + 7103 – 50 mm track width)

**Sliding decking beam 7008** (Guiding tracks – 68 mm track width)



| 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 pallet securing | <b>227007000020-3</b> | 2,450- approx. 2,530 mm | 10.7 kg | 1,000 daN / 1,000 daN                   |
| Sliding decking beam 7008                             | <b>227008000020</b>   | 2,450- approx. 2,530 mm | 7.7 kg  | 1,000 daN / 1,000 daN                   |
| Sliding decking beam 7008 with 3-fold pallet securing | <b>227008000020-3</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)



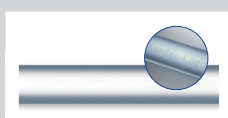
| Version  | Item No.                | Application range       | Weight  | Blocking capacity / bearing capacity *) |
|--|-------------------------|-------------------------|---------|---|
| Sliding decking beam 7907<br>One side with hinged slider up to 90° for<br>ceiling track / park bracket | <b>227907000020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



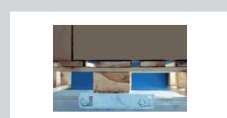
Engraving



Needle embossing



Powder coated versions



PL3



Unlocking bar

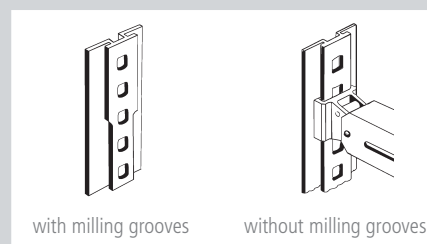
## WISTRA guiding tracks for sliding decking beams 7007, 7907

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.

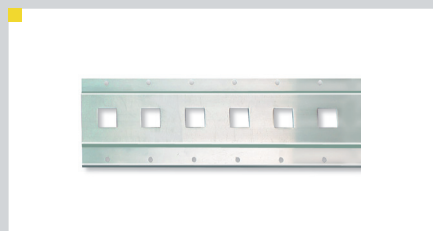
The distance between the lower edge of the grid hole to the roof should be 65 mm for optimal utilisation of the internal height.

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.

Track width: 50 mm



### 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



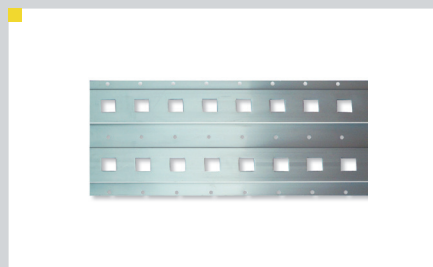
| Designation   | Weight | length   | Item No.            |
|---|--------|----------|---------------------|
| Tandem aluminium guiding track without milling groove | 4.7 kg | 1,960 mm | <b>227002040020</b> |
| Tandem aluminium guiding track with milling grooves   | 4.7 kg | 1,960 mm | <b>227002050020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

### Single steel guiding track 7003



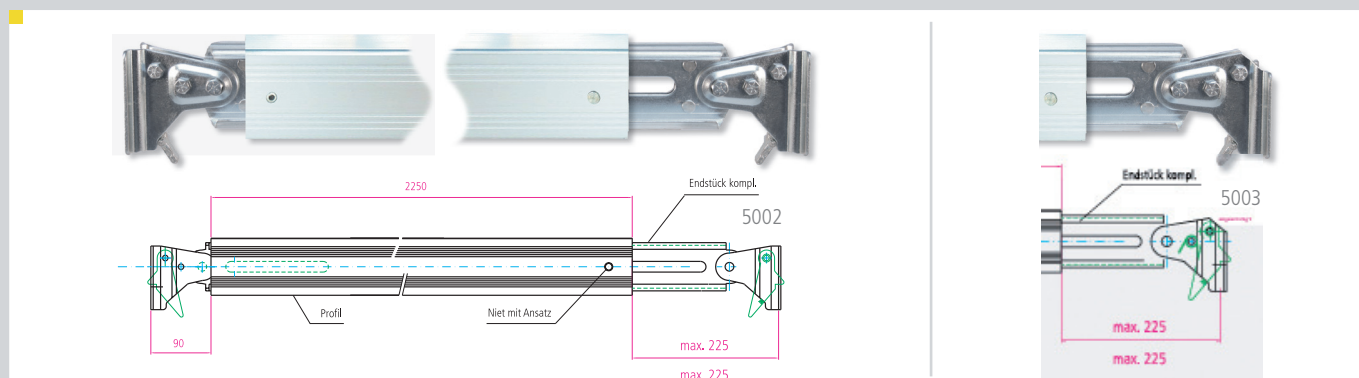
| Designation   | Weight | length   | Item No.            |
|---|--------|----------|---------------------|
| Single steel guiding track without milling groove, primed | 4.7 kg | 2,500 mm | <b>227003010015</b> |
| Single steel guiding track with milling groove, primed    | 4.7 kg | 2,500 mm | <b>227103010015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

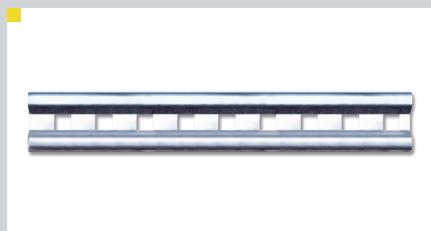
## Sliding decking beam 5002/5003



| 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 pallet 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 pallet securing | <b>225003000012-3</b> | 2,450- approx. 2,530 mm               | 13.9 kg | 1,000 daN / 1,000 daN                   |

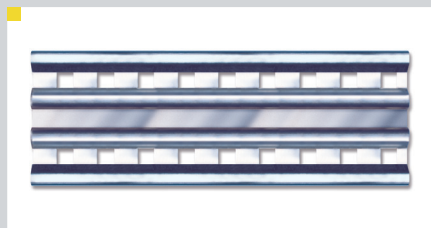
\*) Blocking capacity / carrying capacity for constant surface loading

### 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>on request</b> |
| Single steel guiding track without milling groove, steel galvanised | 6.3 kg | 2,480 mm | <b>on 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>on request</b> |
| Tandem steel guiding track without milling groove, steel galvanised | 13.0 kg | 2,480 mm | <b>on request</b> |

### Options



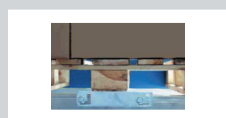
Engraving



Needle embossing



Powder coated versions

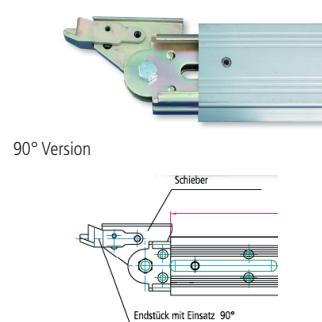
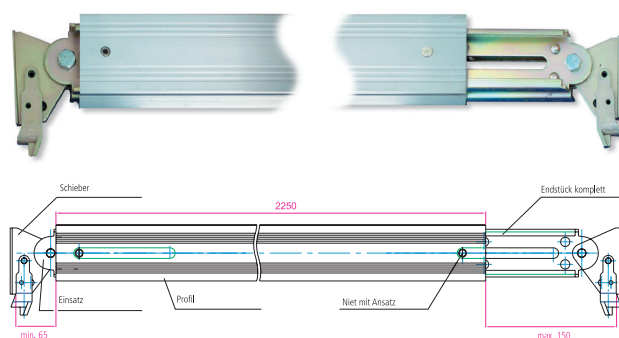


PL3



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 pallet securing   | <b>225001000012-3</b> | 2,450- approx. 2,530 mm | 13.7 kg | 1,000 daN / 1,000 daN                   |
| Sliding decking beam 5001<br>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 pallet securing<br>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

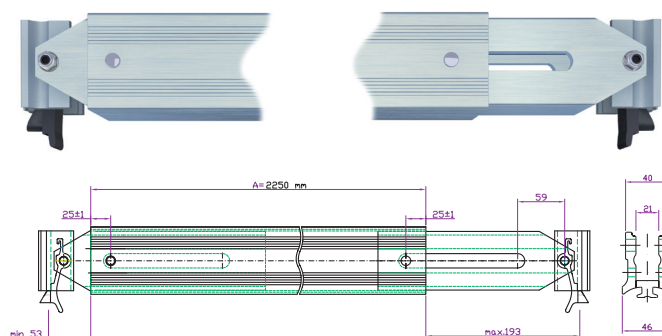


PL3



Unlocking bar

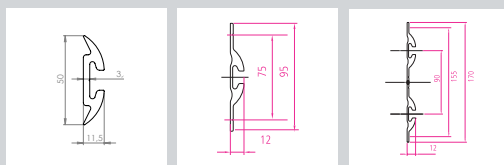
## Sliding decking beam 7104



| 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 pallet 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 pallet 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

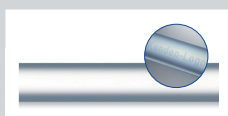
5000

5020

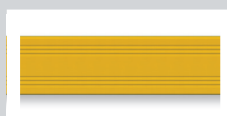
### Options



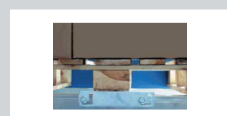
Engraving



Needle embossing



Powder coated versions



PL3



Unlocking bar



# WISTRA transport garment rails



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 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 on request
- Aluminium fixing axle black powder coated – 15x15 mm other dimensions on request
- 2 pieces Velcro strip other quantities on 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.

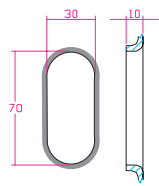


The garment rails are subjected to load carrying tests at regular intervals in the own test facilities.

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

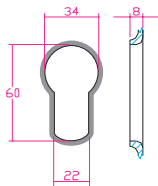
## Lashing tracks and perforated plate forms

612



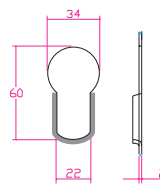
KST L6  
KST K7

712



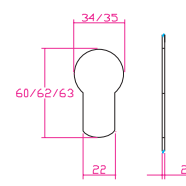
KST L6 U71  
KST K7 S7

812

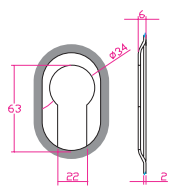


KST L6 U71  
KST K7 S7

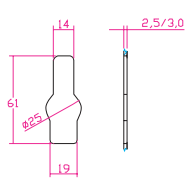
1803



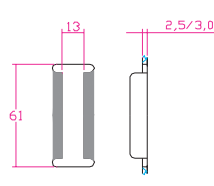
KST U71  
KST S7



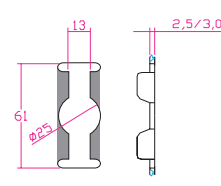
KST U71  
KST S7



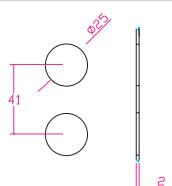
KST U71



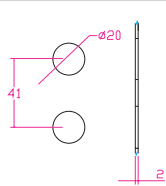
KST U71



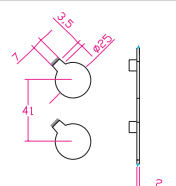
KST U71



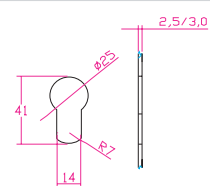
KST on request  
KST on request



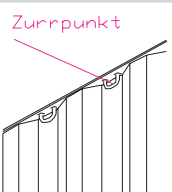
KST on request  
KST on request



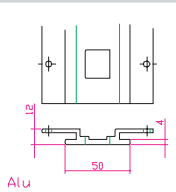
KST on request  
KST on request



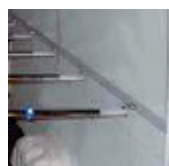
KST on request  
KST on request



KST C7



KST F7

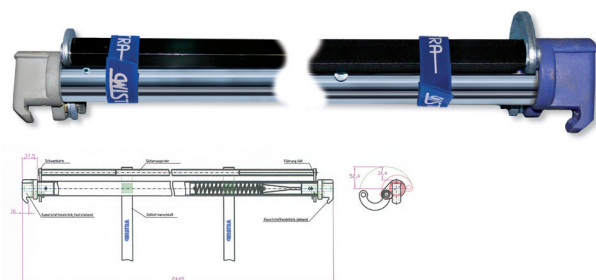


KST TA

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 K7



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

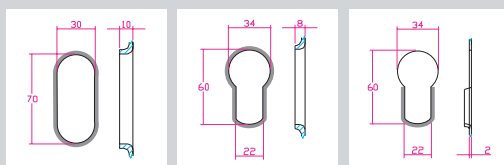
| Version   | Item No.            | Application range          | Weight | Carrying capacity *) |
|---|---------------------|----------------------------|--------|----------------------|
| Garment rail K7   | <b>267191237017</b> | 2,420 – 2,500 mm           | 5.3 kg | 400 kg               |
| Garment rail K7 in special length - stay pipe shorter than 2,370 mm | <b>on request</b>   | according to specification |        | 400 kg               |
| Garment rail K7 in special length - stay pipe longer than 2,370 mm  | <b>on request</b>   | according to specification |        | **)                  |

\*) 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



612

712

812

## Garment rail U71



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

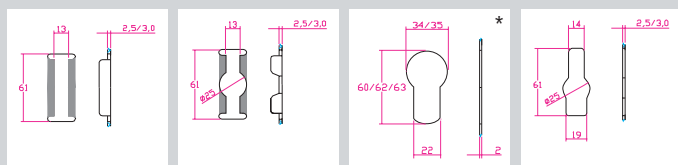
| Version   | Item No.            | Application range             | Weight | Carrying capacity *) |
|---|---------------------|-------------------------------|--------|----------------------|
| Garment rail U71  | <b>267382137017</b> | 2,420 – 2,500 mm              | 5.5 kg | 400 kg               |
| Garment rail U71 in special length – stay pipe shorter than 2370 mm | <b>on request</b>   | According to specification D) |        | 400 kg               |
| Garment rail U71 in special length – stay pipe longer than 2370 mm  | <b>on 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



3008

3009

1803

7102

\*of limited use

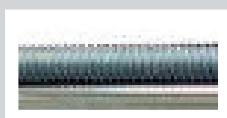
### Options



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

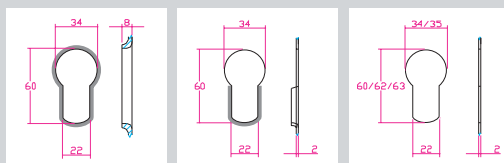
| Version  | Item No.            | Application range             | Weight | Carrying capacity *) |
|--|---------------------|-------------------------------|--------|----------------------|
| Garment rail S7 - without spring function  | <b>267390337017</b> | 2,420 – 2,500 mm              | 5.9 kg | 400 kg               |
| Garment rail S7 - pressure spring function   | <b>267290337017</b> | 2,420 – 2,500 mm              | 5.9 kg | 400 kg               |
| Garment rail S7 - without spring function in special length - stay pipe shorter than 2,370 mm  | <b>on 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>on 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>on request</b>   | According to specification D) |        | **) )                |
| Garment rail S7 - pressure spring function in special length - stay pipe longer than 2,370 mm  | <b>on 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 on request



[illegible]

| 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>on request</b>   | According to specification D) |        | 400 kg               |
| Garment rail A6FL in special length - stay pipe longer than 2,300 mm  | <b>on request</b>   | According to specification D) |        | **)                  |

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

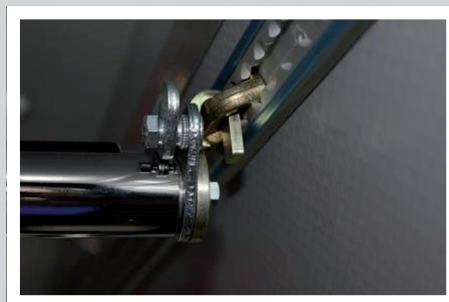
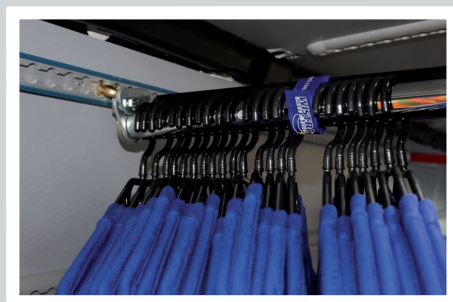
A6H for half-round airline lashing tracks

A6H for flat airline lashing tracks



179

## 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>on request</b>   | According to specification D) |        | **)                  |

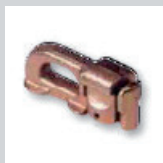
\*) Carrying capacity for constant loading

\*\*) 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

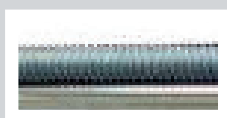
### Options



Velcro strip options



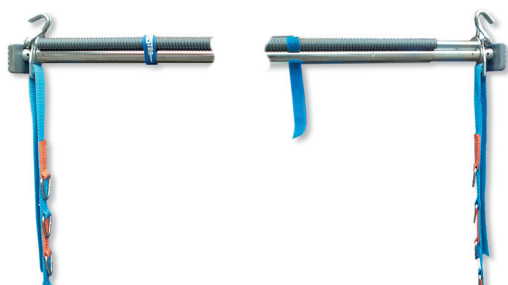
Needle embossing



Fixing axle with spiral hose

Other combination options available on 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>on request</b>   | According to specification D) |        | 400 kg               |
| Garment rail C7 CONSTAR in special length stay pipe longer than 2,370 mm  | <b>on request</b>   | According to specification D) |        | **)                  |
| CONSTAR level strap with D rings  | <b>on request</b>   |                               |        | -                    |
| CONSTAR level strap   | <b>on request</b>   | According to specification E) |        | -                    |

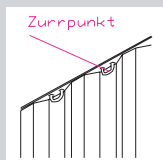
\*) Carrying capacity for constant loading

\*\*) 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.

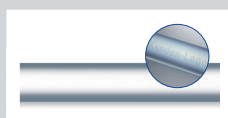
267

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

### Options

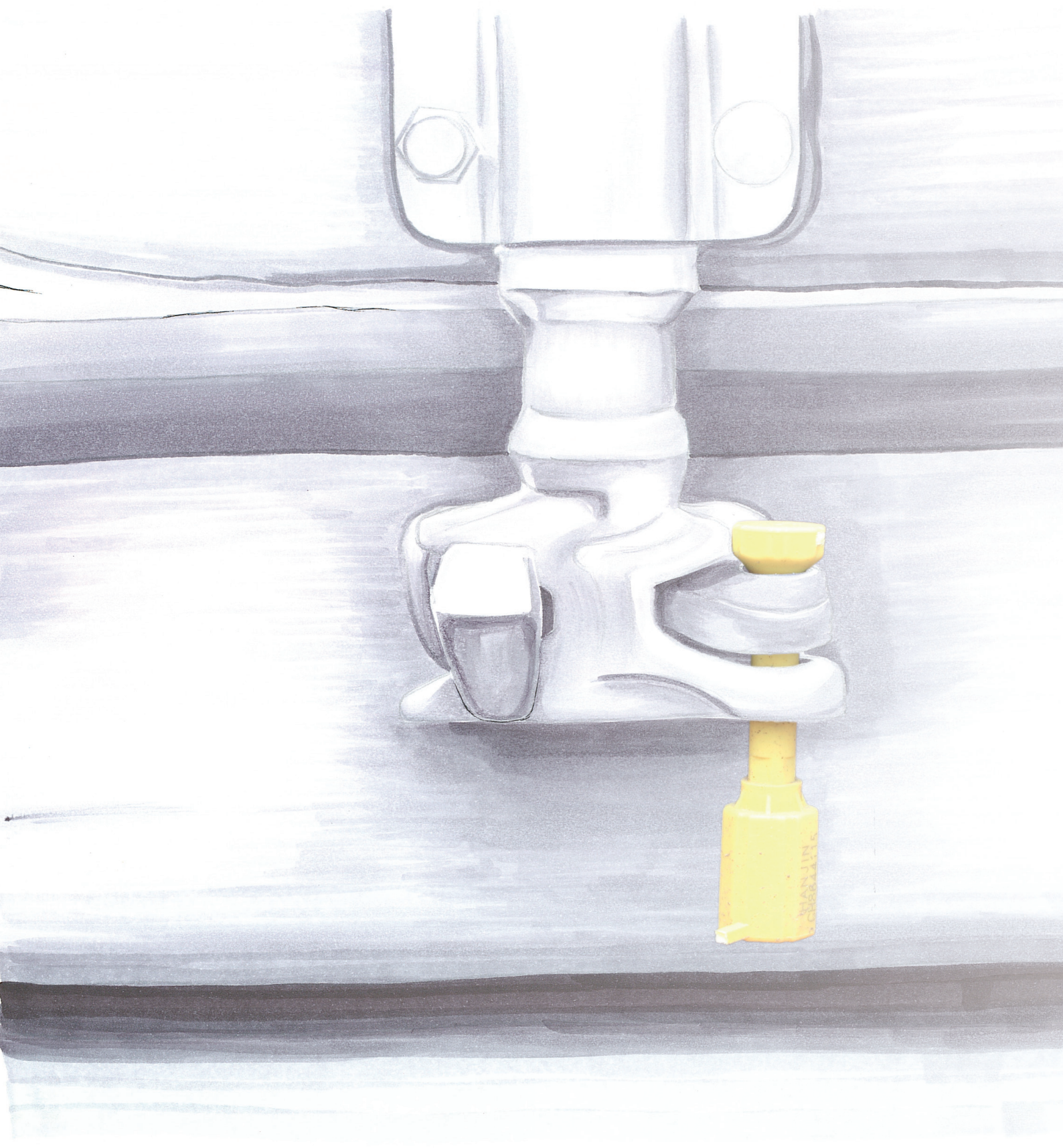



Velcro strip options



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 & High security seals

## Dual Lock S304



Length: 210 mm

### Item No. 034 030 4

- made of ABS plastic
- standard colour blue, other colours upon request
- sequential numbering
- individual marking with company name possible
- easy and quick to apply

## Plast Seal

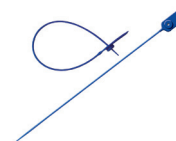


Length: 190 mm

### Item No. 035 000 2

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

## Chinch-up Seal S 306

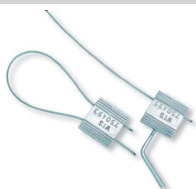


Length: 375 mm

### Item No. 034 030 6

- marking with pen possible
- standard colour blue, other colours upon request
- sequential numbering
- individual marking with company name possible
- easy and quick to apply

## 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

## 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

## 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

## 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

## 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 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

## "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



### 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

## WIS TubeSecure 230/460 with 3 keys



### Item No. 034 226 2

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

## anti theft protection for fuel tank



### Item No.. 034 226 3

- for Ø 105 mm, galvanised version
- 2 bayonet claws for original plug

# 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.

## Powerbrace series QF for 1" pipe



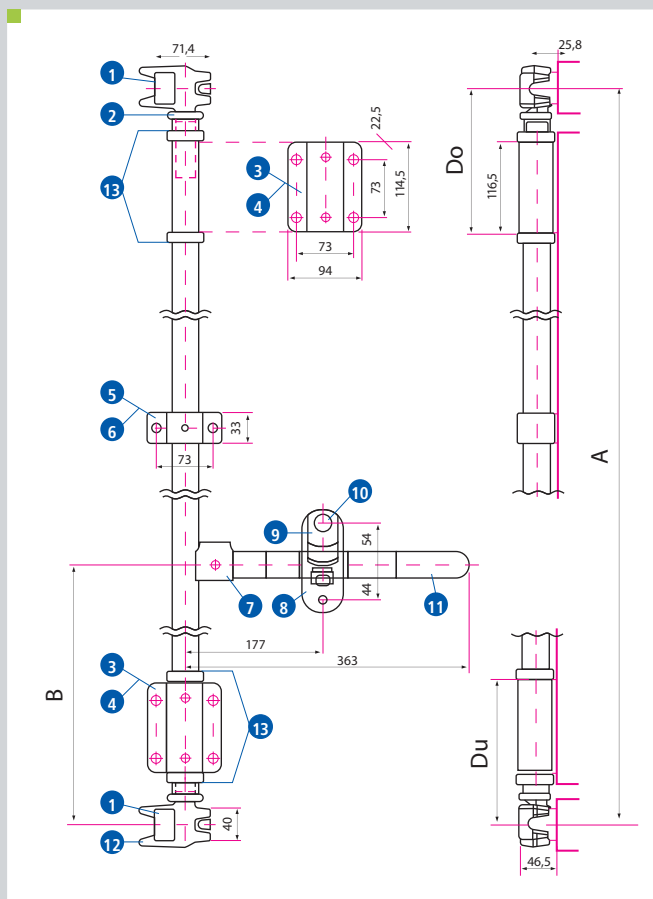
- Robust door lock system, for compact vehicles and trailers, swap bodies and containers etc.
- The patented system of the holder and the cams excludes torsion of the door gear.
- The "ice-breaker" nose on the cam allows even iced-up doors to be opened easily.
- Has been proven over many years in vehicle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

### Additional options

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

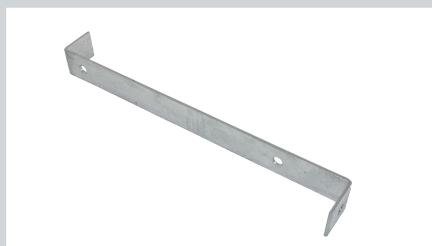
<sup>1)</sup> with one lock

<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> | 1,000/500/470 mm | Pieces        | <b>391015</b> |
| Tool box, Black Dog <sup>3)</sup> | 1,000/500/650 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  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$

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 ®)

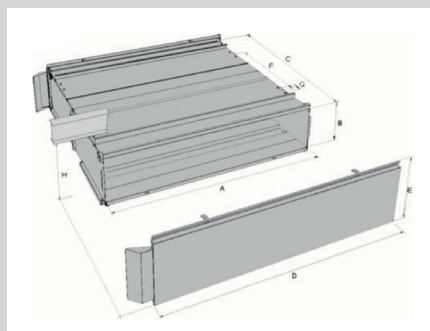
Version

- 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> |

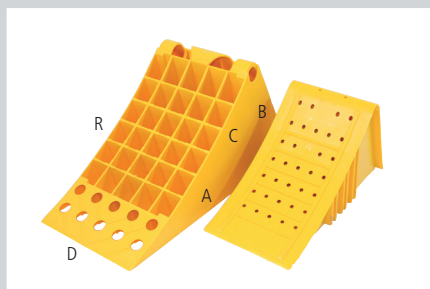
### Technical details



| Item No.      | Inside dimensions<br>mm |     | Cover mm |       | Centre distance mm |       | Outside height mm |     |
|---------------|-------------------------|-----|----------|-------|--------------------|-------|-------------------|-----|
|               | A                       | B   | C        | D     | E                  | F     | G                 | H   |
| <b>391049</b> | 2,625                   | 430 | 2,445    | 2,710 | 575                | 1,305 | 100/140           | 485 |
| <b>391050</b> | 2,625                   | 555 | 2,445    | 2,710 | 700                | 1,305 | 100/140           | 610 |
| <b>391051</b> | 2,625                   | 605 | 2,445    | 2,710 | 750                | 1,305 | 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

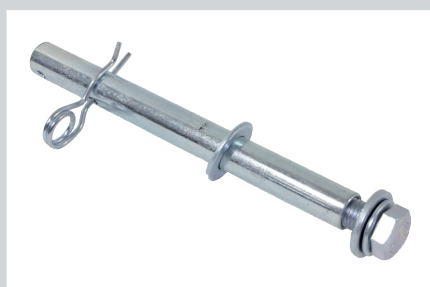


Material: Steel sheet, hot-dip galvanised

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> |

## Notes

[illegible]

Blank lined paper for writing.

# 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 counter-claim 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.

cessful.

- 5.7. If the value of the existing securities including the goods subject to retention of title as defined by clause 5.1 exceeds the secured claims by a total of more than 50%, we are obliged to release the securities of our choice, if requested by the customer.

## 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.

For the latest version see  
[www.wistra-cargocontrol.eu/general-conditions-of-sale](http://www.wistra-cargocontrol.eu/general-conditions-of-sale)

## 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)

WISTRA GmbH  
Cargo Control  
An der Trave 11 · 23923 Selmsdorf  
Phone +49 (0) 388 23 / 258-0  
Fax +49 (0) 388 23 / 258-23  
E-Mail [info@wistra.eu](mailto:info@wistra.eu)  
[www.wistra.eu](http://www.wistra.eu)

UAB "Wistra Cargo Control"  
Pramones 8A  
LT-94102, Klaipeda  
Mob. Tel +370 61024943  
Mob. Tel +370 69565282  
E-Mail [masiule@wistra.eu](mailto:masiule@wistra.eu)  
[www.wistra.eu](http://www.wistra.eu)

Catalogue 2016/2017



You will find our product catalogue  
online at:

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

**WISTRA**  
C A R G O C O N T R O L