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**ICONS**

- ABS** „Anti-Belt-Slip“- procedure (ABS)  
Allows pre-tensioning to be released in small stages
- TFI** „Tension Force Indicator“  
Available with indicator for showing the actual pre-tensioning achieved
- Extended ratchet lever**  
For improved force transmission and better ergonomics; protects backs
- Self-locking ratchet lever**  
Prevents unintentional opening of the ratchet
- Double slider**  
For increased pre-tensioning force
- Quality label in protective tube**  
Reinforced with insert
- Security label**  
As a protection against damage with critical information sewn inside seam
- Reinforced selvedge**  
Available with reinforced selvedge
- (25)** **Available in strap widths**  
of 25, 45 and 50 mm
- EPX** **Epoxy resin coating**  
on chrome- and zinc-plated sheet steel ratchet
- 4%** **Precision strap**  
Available with max. 4% elongation
- Optimum fitting**  
of webbing to cambuckle

**Also available from SpanSet:**

- Height safety equipment including the Gotcha range of rescue equipment
- Stoppa and Capcha systems for working at height on vehicles
- Textile lifting slings
- Safety training – modular courses for industry, police and the emergency services

**Discover SpanSet quality**

**HELPFUL ITEMS**

**Cargo Control Poster**



Are your loads being secured correctly? A1 poster with useful information and legal requirements for securing your loads in transportation. Ideal to display in the communal areas within the work place.

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**03**

Height Safety  
Lifting  
Load Control  
Safety Management



**SpanSet Worldwide**



The SpanSet Group are world specialists in Height Safety, Lifting and Securing Loads with fifteen operating plants across the world and a global network of dealers.

SpanSet is here for you

- Switzerland
- Australia
- Austria
- Brasil
- China
- France
- Germany
- Hungary
- UK
- Indonesia
- Italy
- Poland
- Spain
- Taiwan
- USA

SpanSet UK have been established for over 40 years. SpanSet designs, manufactures and supplies Height Safety, Lifting and Load Control systems.

All SpanSet products have been developed to work as part of an overall safety solution, which includes products, installations, training, implementation, testing and servicing. By offering our customers an overall solution SpanSet is better able to meet customers' needs and help them develop safer solutions for working at height, lifting and load restraint.

For more information: log on to [www.spanset.co.uk](http://www.spanset.co.uk)



**SpanSet Ltd also design, manufacture and supply and extensive range of Textile Lifting Slings and Height Safety Equipment including the Gotcha Rescue Range and Working at Height on Vehicles systems.**

**Stoppa**

Every day, drivers and operatives suffer injuries as a result of falls whilst working at height on vehicles. The Stoppa system enables safe access on the roof of the vehicle at any remote site, whether it be roadside, workshop or site.

- Typical Installations Include:
- Tankers
  - Refuse Collection Vehicles
  - Fire and Rescue Vehicles
  - Containers
  - Modular Buildings

**Capcha Overhead Fall Arrest Systems**

The problems and inherent dangers faced by operators working at height on commercial vehicle trailer beds during loading and unloading operations is fully recognised and well documented as a result of the increasing number of accidents.

The SpanSet Capcha system provides an easy to use solution, helping to reduce the risks posed by falls from vehicle trailers. The system has been designed for integration with the vehicle body. Capcha allows secure, unrestricted hands free access to the trailer platform. The system can also be used when it is necessary to work at height on the loaded goods.

**Capcha Overhead Base System**

Aswell as being fitted to vehicles, the versatile Capcha system can also be adapted to those situations where a permanent height safety arrangement is required at a fixed base or location.

Typical Installations Include:

- Maintenance workshops
- Bodybuilding Shops
- Tanker Loading Gantries
- Tank Washes

For further information on these systems or other products in our extensive range, call our customer services dept on +44 (0) 1606 737494 or email [customerservices@spanset.co.uk](mailto:customerservices@spanset.co.uk)

**Inspection and Testing Service**

SpanSet can perform the thorough inspections required by legislation and/or equipment manufacturers. We can also provide training for Competent Persons and therefore the combination of your staff and our services can increase the safety and ensure compliance.



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## **Your partner for greater peace of mind**

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Security is the top priority for both you and us when it comes to the transportation of goods and the protection of all those involved. Not only does it give a sense of reassurance, but is also a legal requirement. But where does security start?

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**Security  
Quality  
Partnership**





## We can manage your security

The greatest security does not come about overnight. It is the result of many years' development. SpanSet can look back over 40 years of experience and success. After all, we developed the first car safety belt for Volvo back in the 60s – which today is an indispensable security feature for every car.

We have consistently followed up these security concepts. Nowadays, SpanSet has become the number one for quality and our products are in use around the world. Our customers include companies and organisations who set the highest demands in security, such as automobile and aircraft manufacturers, the chemical, steel and paper industry, energy suppliers, freight companies, fire services, Ministry of Defence and NATO.

### Progress needs pacesetters – such as SpanSet

In addition, SpanSet is an international pacesetter in development: for decades, we have supported standardisation in Europe. Each year, we put forward patents and new developments in load security, lifting technology and personal protective equipment. We are actively involved in drawing up guidelines through European bodies such as the UK Health and Safety Executive and the VDI (Association of German Engineers), meaning our customers are the first to find out about important innovations and trends in security technology.

This is how we can maximise your security, wherever it's needed: with our load security products you will effectively avert risks and accidents and comprehensively meet legal requirements. With the use of SpanSet quality products, you can be assured that you'll be doing the utmost for your transport safety.

## Only 100% quality is good enough for us

How can we actually be sure that our products keep their promises? It's quite simple: we are obsessed with quality.

From material selection to quality testing, from accurate calculations to intelligent use – we provide 100% performance for each phase. We weave our own webbings at several of our locations and we employ technical and legal experts so that only absolutely reliable and practical load security products reach your hands. We develop new products together with universities and other institutions.

Our quality management continually tests materials and end products. They are checked continuously in our own laboratory and in external testing programmes. We test the maximum load, strength and durability. For many years we have also been audited by renowned institutions, including BSI, TÜV and MoD who regularly certify our products and quality management.

### Quality does not stop with our straps

Our care for your security extends well beyond the manufacture of reliable lashing straps, net systems and shoring materials. This is why we make sure through our comprehensive service and consultancy that you also have the necessary information to select the right load security equipment. Of course, when it comes to tests, repairs and maintenance work, we'll also be by your side.

## As your partner, we have the same aims

Our customers are our partners, and we share their aims: more security for individuals and cargo. Within this partnership, we will do everything to support you in your day-to-day life.

### SpanSet offers you real partnership

As experts in load security, we actively seek interaction with you and other experienced experts so we can advance together. Through training and seminars, we can help you to implement load security quickly and easily in everyday life. Tests and proving ground trials with independent institutions also give you an informative edge over others.

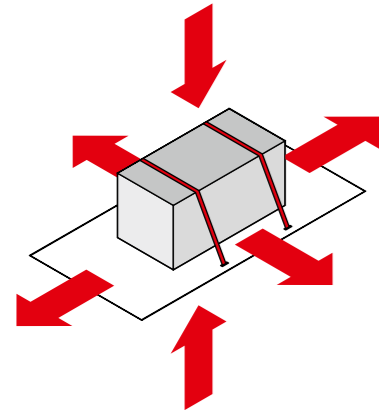
You can also contact our technicians and specialists directly if you need a particular design. We manufacture and modify our load security products on request to meet any special requirements you may have.

This partnership helps us both: you prevent accidents, their consequences and subsequent costs. You prevent damage to public and private property, protect resources and people. This will save you expensive fines, court procedures and time-wasting conflicts. You will win the trust of your customers by delivering completely undamaged cargo on time. This also means you will improve your image in the long term compared to your competitors.

## TECHNICAL INFORMATION

The route to optimum load security

### Determining the securing force



| Forces (in G) | Truck | Train | Ship |
|---------------|-------|-------|------|
| To the front  | 0.8   | 4.0   | 0.2  |
| To the back   | 0.5   | 4.0   | 0.2  |
| To the side   | 0.5   | 0.5   | 0.7  |
| Upwards       | -     | 0.3   | 2.2  |
| Downwards     | 1.0   | 1.0   | 2.2  |

#### Mode of transport

Take into account the load distribution, the carrying capacity of the load area, stanchions and ship's sides, but also the different forces that occur when transporting by ship, truck or train (see table). The first step towards security is selecting the right lashing equipment for your cargo.

#### Legal basis

Under EN 12195-1 and EN 12195-2, the same directives apply across Europe regarding lashing strap requirements for securing cargo. In addition the Road Traffic Act sections 1, 2 and 40A and Road Vehicles (construction and use) Regulations 100(2) apply in UK.

#### Form-fitting load security

Form-fitting load securing takes place when the cargo can support itself against bulkheads or ship's walls or stanchions. The load is held in position using longitudinal and diagonal lashings.

The lashing straps must be evenly tensioned without over tightening. The support – the bulkhead or similar – must be able to absorb the necessary forces as should the anchor points on the truck and cargo.

Use form-fitting load security whenever you have the opportunity, as this form of load security is particularly efficient and safe.

#### Calculating the forces in form-fitting load security

The permitted tensile force (LC) is calculated as follows:

$$LC = \frac{G \times (0.8 - \mu)}{n_w (\mu \times \sin \alpha + \cos \beta)}$$

LC – Lashing capacity  
G – Weight of load  
0.8 – Acceleration factor in the direction of travel  
 $n_w$  – Number of lashing units in the direction of travel  
 $\mu$  – Kinetic friction coefficient

In the case of longitudinal and diagonal lashing, the lashing angles  $\alpha$  and  $\beta$  must be considered. Ideally, the apex angle  $\alpha$  will lie between 0° and 60°, and the longitudinal angle of inclination  $\beta$  between 20° and 45°.

#### Tip:

Use our lashing force controller to secure your loads correctly.

#### Friction applied load security

Loads are secured against tilting or sliding using friction lashing. In the case of friction lashing, two forces act together to secure the load: the pre-tensioning force and kinetic friction.

The lashing straps are used for applying the pre-tensioning force. The number of lashing straps to be used is determined depending on the pre-tensioning force required.

The friction that results from the combination of the load and the load surface reduces the pre-tensioning force that is required to secure the cargo on the load surface. You can increase the friction by placing non-slip matting under the cargo. SpanSet Grip, our premium non-slip matting product, significantly reduces the pre-tensioning forces required.

#### Calculating the forces in force actuated load security

The pre-tensioning force (F) is calculated as follows (no angles):

$$F_v = G \times \frac{(0.8 - \mu)}{\mu}$$

$F_v$  – Pre-tensioning force  
G – Weight  
0.8 – Acceleration factor in the direction of travel  
 $\mu$  – Kinetic friction coefficient

For example, friction lashing on a load weighing 6 t with non-slip matting placed underneath (no angles):

$$F_v = 6,000 \times \frac{(0.8 - 0.6)}{0.6} = 2,000 \text{ daN}^*$$

\* Total pre-tensioning force required = 2,000 daN

#### Structure of textile lashing straps

In order to select the right lashing strap, you of course need to know which types are used, and when. In general, a distinction is made between one-piece and two-piece lashing straps:

The **one-piece lashing strap** is used for strapping the load and therefore does not need any end fittings such as eyes or hooks (see fig. 1 on the left).

The **two-piece lashing strap** consists of a fixed end (FE), an end fitting (EF), a tensioning device (TD) and an adjustable end (AE), which is also equipped with an end fitting (see fig. 1).

**Caution:** Means of fixing such as ropes or long-link chains are not permitted for securing loads!

#### Safety label

According to the new European Standard EN 12195-1, fixed and adjustable ends must be identified respectively using a safety label that provides all of the technical details (see fig. 2). It is now obligatory to state the Standard Tension Force (STF). If this is missing, a lashing strap may no longer be used for friction lashing. Across Europe it is also obligatory to state the lashing capacity (LC), which is the maximum lashing capacity permitted.

#### Extremely durable

Lashing straps made from polyester can be used in a temperature range from -40°C to +100°C. Even caustic solutions and acids do not generally cause a problem – depending on the concentration and the duration of exposure.

#### Testing and maintenance

Lashing straps must be tested at least once a year by a competent person. This may even need doing more frequently, depending on the conditions and frequency of use. Maintenance work may only be carried out by the manufacturer or by his representative.

Lashing straps may no longer be used if the details of the manufacturer, LC and material can no longer be ascertained (because the security label has been torn off, for example).

#### IDXpert Net helps with administration

An electronic product management system lets you administer inspection dates, maintenance work and inventory lists for load security equipment with ease. Using IDXpert Net technology, which can be embedded in the lashing strap, data on the relevant product can be read out directly and maintained in a database. The prescribed inspections are planned, documented and administered automatically. For further information visit our website [http://www.spanset.co.uk/fileadmin/spanset\\_uk/pdf/catalogue/80213\\_IDXpert\\_Net\\_Brochure\\_Web.pdf](http://www.spanset.co.uk/fileadmin/spanset_uk/pdf/catalogue/80213_IDXpert_Net_Brochure_Web.pdf)

## TECHNICAL INFORMATION

Assembly and maintenance of textile lashing straps

### Making lashing straps safe

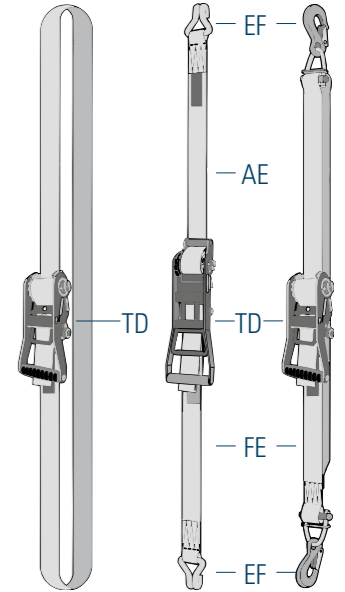


Figure 1: Lashing straps



Figure 2: Safety label

# 03.1



## Heavy duty ratchets

|   |    |
|---|----|
| Heavy duty ratchet 10 t 75 mm           | 14 |
| ABS heavy-duty ratchet                  |    |
| lashing strap 10 t 75mm                 | 15 |
| Heavy-duty ratchet lashing strap 5 t 75 | 16 |
| Heavy duty ratchet 12.5 t 75 mm         | 17 |

# 03.1



## Heavy Duty Ratchets quickly secure even the heaviest loads

The heavy duty ratchets from SpanSet are real power packs. They don't stop even for the heaviest jobs:

### More tension, less effort

The patented double slider even secures in the intermediate stage when tensioning, using the "half tooth". This gives you more tension in smaller steps – and conserves your physical strength.

### Less dead weight

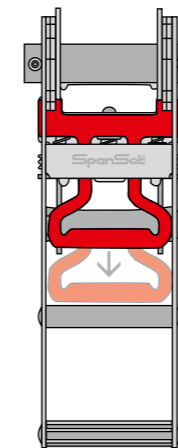
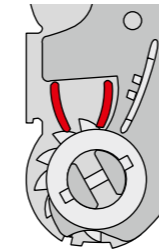
They are called heavy duty ratchets, but are much lighter than comparable lashing equipment. The ratchet lashing straps have clear advantages over chains or wire ropes when it comes to their dead weight – and are thus much lighter to handle.

### Self-locking ratchet lever

For maximum security when lashing, we developed the self-locking ratchet lever. When lashing, you pull the integrated slider, close the ratchet, and it engages automatically in the locking position. This means that unintentional opening of the ratchet when on the move is effectively impossible.

### The best quality for a sense of security

Even for heavy loads, such as construction equipment or precast concrete parts, it is a matter of controlled load security. Heavy loads do not only have to be secured. It is more a case of a controlled securing procedure from start to finish.

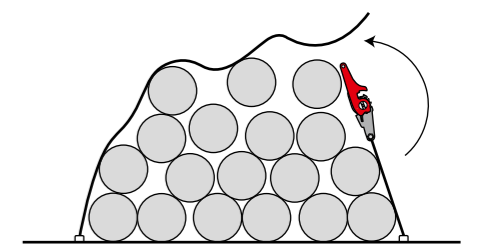


This is why we place great value on the quality of each individual part of our heavy duty ratchets. This extends from the impact-resistant epoxy resin coating of the ratchets to the webbing with optional integrated edge protection, designed for extreme loads.

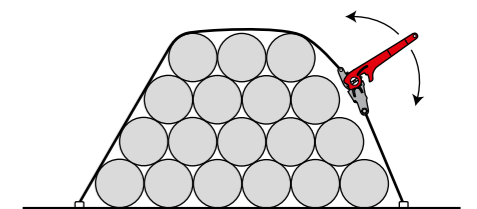


### "Anti-Belt-Slip" procedure

The ratchet is opened, the tension loosens sporadically, and the load gets out of control: anyone who has experienced this knows how important ABS is. It means you have complete control even during release. The ABS system lets you release the pre-tension force in small steps. This gives you the opportunity to use a fork-lift truck to straighten up any loads that threaten to tip and are leaning into the strap, helping prevent damage and accidents.



Without ABS



With ABS



# HEAVY DUTY RATCHETS

Heavy duty ratchet lashing straps with ABS 10,000/75

- Individual printing possible
- Low dead weight compared to chains
- ABS system incorporated
- Ratchet with robust epoxy resin coating
- Optional TFI (Tension Force Indicator)
- Ratchet lashing strap according to EN 12195-2
- Maximum lashing capacity 10,000 daN
- Ref. No. 20040

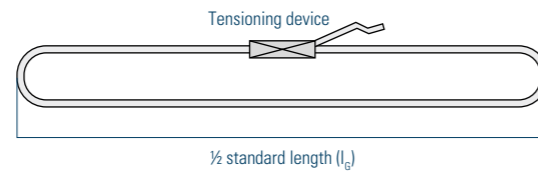


# HEAVY DUTY RATCHETS

ABS heavy-duty ratchet lashing strap 10,000/75

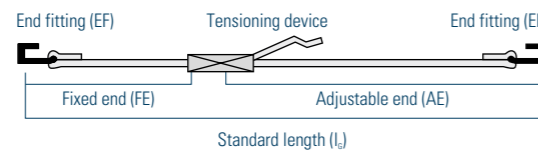
- Tensioning device can be released gradually, self-locking and equipped with double slider
- Tensioning device coated with epoxy resin
- Robust label, resistant to being pulled out, protected by plastic sleeve and webbing insert
- Ideal for diagonal lashing of vehicles and machinery
- Reliable lashing force of up to 10,000 daN

## One-piece



| Product code | Standard length* l <sub>s</sub> [m] | Weight for l <sub>s</sub> [kg] | Surface Δ finished | LC [daN] | Strap width [mm] |
|--------------|-------------------------------------|--------------------------------|--------------------|----------|------------------|
| 2004001      | 4.0                                 | 4.3                            | △                  | 10,000   | 75               |
| 2004002      | 6.0                                 | 4.8                            | △                  | 10,000   | 75               |

## Two-piece

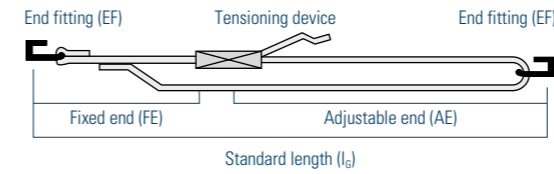


| Product code | Standard length* l <sub>s</sub> [m] | Weight for l <sub>s</sub> [kg] | End fitting** | Surface Δ finished | LC [daN] | Standard length FE [m] | Strap width [mm] |
|--------------|-------------------------------------|--------------------------------|---------------|--------------------|----------|------------------------|------------------|
| 2004003      | 4.0                                 | 6.8                            | A             | △                  | 5,000    | 0.7                    | 75               |
| 2004004      | 6.0                                 | 7.3                            | A             | △                  | 5,000    | 0.7                    | 75               |
| 2004005      | 4.0                                 | 8.7                            | B             | △                  | 5,000    | 0.7                    | 75               |
| 2004006      | 6.0                                 | 9.2                            | B             | △                  | 5,000    | 0.7                    | 75               |
| 2004007      | 4.0                                 | 5.6                            | C             | △                  | 5,000    | 0.7                    | 75               |
| 2004008      | 6.0                                 | 6.1                            | C             | △                  | 5,000    | 0.7                    | 75               |

\* Special lengths on request

\*\* Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)

## Power assisted



| Product code | Standard length* l <sub>s</sub> [m] | Weight for l <sub>s</sub> [kg] | End fitting** | Surface Δ finished | LC [daN] | Standard length FE [m] | Strap width [mm] |
|--------------|-------------------------------------|--------------------------------|---------------|--------------------|----------|------------------------|------------------|
| 2004009      | 4.0                                 | 9.5                            | A             | △                  | 10,000   | 0.7                    | 75               |
| 2004010      | 6.0                                 | 10.5                           | A             | △                  | 10,000   | 0.7                    | 75               |
| 2004011      | 4.0                                 | 8.1                            | B             | △                  | 10,000   | 0.7                    | 75               |
| 2004012      | 6.0                                 | 9.1                            | B             | △                  | 10,000   | 0.7                    | 75               |

\* Special lengths on request

\*\* Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



A Delta 01427

B Delta and hook 01252



C Claw hook 01231



A Delta hook 01252

B Delta 01427



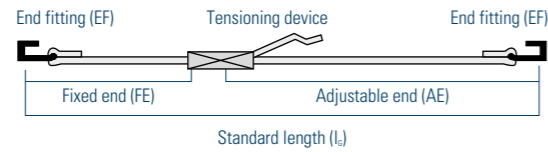
# HEAVY DUTY RATCHETS

Heavy-duty ratchet lashing strap 5,000/75

- Yellow chrome-plated tensioning device
- Self-locking ratchet lever
- Wear-resistant webbing
- Reliable lashing force of up to 5,000 daN
- Label that is resistant to being pulled out, protected by webbing insert



## Two-piece



| Product code | Standard length* l <sub>0</sub> [m] | Weight for l <sub>0</sub> [kg] | End fitting** | Surface Δ finished | LC [daN] | Standard length FE [m] | Strap width [mm] |
|--------------|-------------------------------------|--------------------------------|---------------|--------------------|----------|------------------------|------------------|
| 0181501      | 4.0                                 | 6.2                            | A             | △                  | 5,000    | 0.7                    | 75               |
| 0181502      | 6.0                                 | 6.8                            | A             | △                  | 5,000    | 0.7                    | 75               |
| 1081503      | 4.0                                 | 8.8                            | B             | △                  | 5,000    | 0.7                    | 75               |
| 0181504      | 6.0                                 | 9.4                            | B             | △                  | 5,000    | 0.7                    | 75               |
| 0181505      | 4.0                                 | 8.3                            | C             | △                  | 5,000    | 0.7                    | 75               |
| 0181506      | 6.0                                 | 8.9                            | C             | △                  | 5,000    | 0.7                    | 75               |



A Claw hook 01231



B Triangle hook 01252



C Delta hook 01427



\* Special lengths on request

\*\* Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



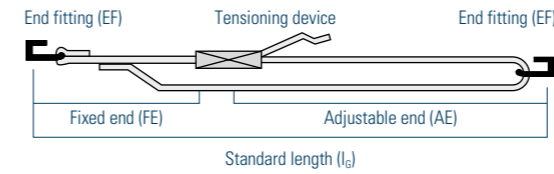
# HEAVY DUTY RATCHETS

Heavy duty ratchet lashing straps with ABS 12,500/75

- Max. lashing capacity 12,500 daN – even for heaviest loads, such as tanks
- Low dead weight compared to chains
- Constructed from hardened material with reinforced links
- TFI (Tension Force Indicator) included
- Ratchet lashing strap according to EN 12195-2
- Ratchet with robust epoxy resin coating
- Ref. No. 20031



## Power assisted



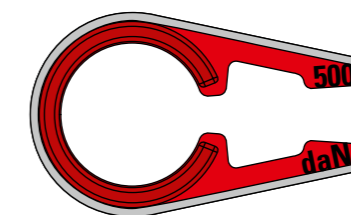
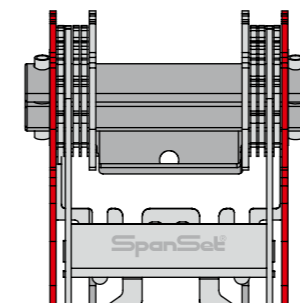
| Product code | Standard length* l <sub>0</sub> [m] | Weight for l <sub>0</sub> [kg] | End fitting** | Surface Δ finished | LC [daN] | Standard length FE [m] | Strap width [mm] |
|--------------|-------------------------------------|--------------------------------|---------------|--------------------|----------|------------------------|------------------|
| 2003101      | 4.0                                 | 16.5                           | A             | △                  | 12,500   | 0.7                    | 75               |
| 2003102      | 6.0                                 | 17.5                           | A             | △                  | 12,500   | 0.7                    | 75               |

### Reinforced link

This high-performance ratchet has extra reinforcement thanks to a double link, so that the load is distributed over three points instead of just two. This provides enormous loading capacity and stability.

### Tension Force Indicator (TFI)

The TFI is fitted as standard in this high-performance lashing as added security against unintentional over-tensioning, thereby providing optimum tension in proportion to the lashing capacity (LC).



\* Special lengths on request

\*\* Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



A Safety hook



# 03.2



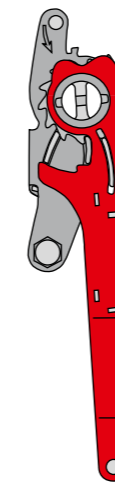
## Medium and Light Duty Ratchets

|   |    |
|---|----|
| Ergo Master Ratchet 2,000/50              | 22 |
| Ergo ABS ratchet 5,000/50                 | 23 |
| Ergo ratchet 5,000/50                     | 24 |
| ABS ratchet 5,000/50                      | 25 |
| Ratchet 5,000/50 „Econolash“              | 26 |
| Ratchet 3,000/50                          | 27 |
| Ratchet 1,500/50                          | 28 |
| Ratchet 500/25                            | 29 |
| TFI – Tension Force Indicator             | 30 |
| ABS, TFI and adjustable end TFI           | 31 |
| Carfix lashing straps                     | 33 |
| Wheel straps / Bracing straps             | 34 |
| Centre pull strap / Spectacle frame strap | 35 |

# 03.2



## Medium and Light Duty Ratchets tension gently, secure efficiently



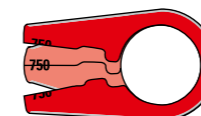
For securing heavy loads in day-to-day business, you not only need lashings that you can rely on. You also need a solution that makes your work easier and makes checking security quick and simple. Our Ergo ratchets are your ideal assistant.

### Longer handle, tensioning that protects your back

The extended handle of the Ergo ratchet makes lashing much easier. You can achieve even high pre-tensioning forces using much less muscle power. As you always pull Ergo ratchets downwards instead of pushing upwards, they are much gentler on your back. With the extra-long lever, you'll be able to fulfil ergonomic demands to an even higher level.

### Tension Force Indicator

With the patented TFI, you can verify the pre-tension force in the system quickly and easily. When the jaws of the TFI are closed, it indicates the maximum pre-tensioning force that can be achieved of 750 daN. Intermediate stages can also be read off. It just can't get any easier. And now there is also a TFI with an adapter for the adjustable end.



TFI

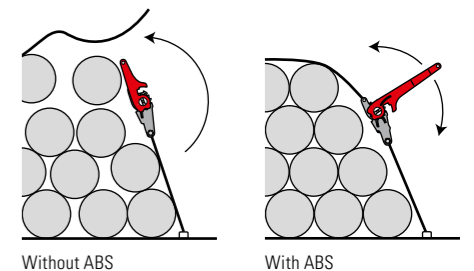
### Optional integrated edge protection

Straps by SpanSet are available with a low elasticity of max. 4%. Thanks to the additional wear-resistant selvedge, they won't wear away, even on rough loads, meaning you have a tough partner on your side to achieve load security.



### "Anti-Belt-Slip" procedure

The ratchet is opened, the tension loosens sporadically, and the load gets out of control: Anyone who has experienced this knows how important ABS is. It means you have complete control even during release. The ABS system lets you release the pre-tension force in small steps. This gives you the opportunity to use a fork-lift truck to straighten up any loads that threaten to tip and are leaning into the lashing, helping prevent damage and accidents.



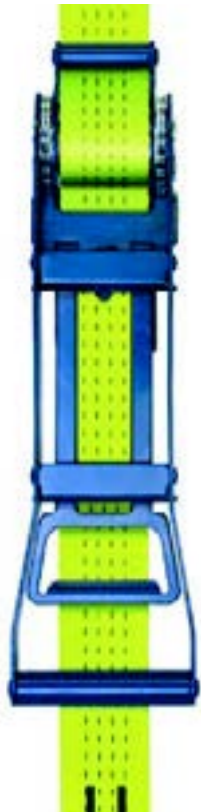
### Safety label on every strap

So that you can always check whether the ratchet lashing strap is suitable for the load to be secured, each lashing strap is equipped with a patented safety label that cannot be torn out. The lashing strap may not be used without its label. Our top products have this label fitted as standard. In their well-thought out solutions, our tension ratchets combine the greatest security with economy and efficiency. They make your everyday life that much easier and let you work faster – and therefore more profitably. What more could you want?

# MEDIUM DUTY RATCHETS

Ergo Master Ratchet  
2,000/50 with STF 720

- Fitted with TFI pre-tensioning display as standard, pre-tensioning force of 1,000 daN<sup>1)</sup> can be achieved and read off
- Ideal transfer of force thanks to a unique slit shaft system
- Low-stretch, wear-resistant webbing with cord edge and marking stripes
- Tensioning device coated with epoxy resin – Robust label, resistant to being pulled out, protected by plastic sleeve and webbing insert



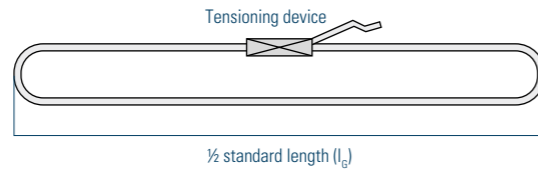
A Claw hook 01228 B Triangle hook 01253



C Hook and keeper 01228SL D Rave hook CLRAVE

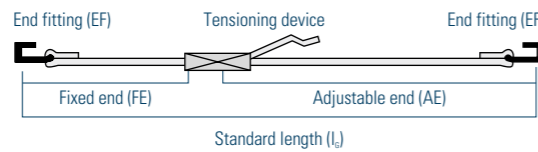


## One-piece



| Product code | Standard length*<br>l <sub>e</sub> [m] | Weight for l <sub>e</sub> [kg] | Surface<br>△ finished | LC [daN] | Strap width [mm] |
|--------------|--|--------------------------------|-----------------------|----------|------------------|
| 2006602      | 8.0                                    | 3.9                            | △                     | 4,000    | 50               |

## Two-piece



| Product code | Standard length*<br>l <sub>e</sub> [m] | Weight for l <sub>e</sub> [kg] | End fitting** | Surface<br>△ finished | LC [daN] |     | With TFI [daN] | Standard length FE [m] | Strap width [mm] |
|--------------|--|--------------------------------|---------------|-----------------------|----------|-----|----------------|------------------------|------------------|
|              |  |                                |               |                       |          |     |                |                        |                  |
| 2006603      | 8.0                                    | 3.4                            | A             | △                     | 2,000    | 720 | 1,000          | 0.5                    | 50               |
| 2006604      | 8.0                                    | 4.1                            | B             | △                     | 2,000    | 720 | 1,000          | 0.5                    | 50               |
| 2006605      | 8.0                                    | 3.7                            | C             | △                     | 2,000    | 720 | 1,000          | 0.5                    | 50               |
| 2006606      | 8.0                                    | 3.3                            | D             | △                     | 2,000    | 720 | 1,000          | 0.5                    | 50               |

\* Special lengths on request  
\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)

The explanations of the pictograms can be found on the flap. 1) simple, direct



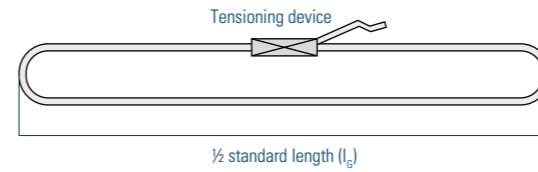
# MEDIUM DUTY RATCHETS

Ergo ABS ratchet 5,000/50



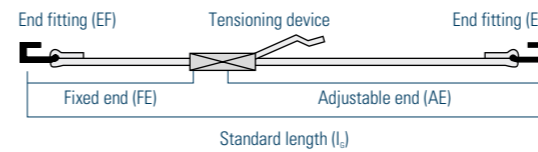
- Ergo pull down action for tensioning
- Optional TFI (Tension Force Indicator)
- Individual interweaving or printing is possible on request
- Ratchet lashing strap according to EN 12195-2
- Maximum Lashing Capacity 5,000 daN
- ABS system incorporated
- Ratchet with robust epoxy resin coating
- Ref. No. 20050

## One-piece



| Product code | Standard length*<br>l <sub>e</sub> [m] | Weight for l <sub>e</sub> [kg] | Surface<br>△ finished | LC [daN] | Strap width [mm] |
|--------------|--|--------------------------------|-----------------------|----------|------------------|
| 2005001      | 6.0                                    | 3.0                            | △                     | 5,000    | 50               |
| 2005002      | 8.0                                    | 3.2                            | △                     | 5,000    | 50               |

## Two-piece



| Product code | Standard length*<br>l <sub>e</sub> [m] | Weight for l <sub>e</sub> [kg] | End fitting** | Surface<br>△ finished | LC [daN] |     | With TFI [daN] | Standard length FE [m] | Strap width [mm] |
|--------------|--|--------------------------------|---------------|-----------------------|----------|-----|----------------|------------------------|------------------|
|              |  |                                |               |                       |          |     |                |                        |                  |
| 2005003      | 8.0                                    | 4.3                            | A             | △                     | 2,500    | 500 | 750            | 0.5                    | 50               |
| 2005004      | 10.0                                   | 4.5                            | A             | △                     | 2,500    | 500 | 750            | 0.5                    | 50               |
| 2005005      | 8.0                                    | 3.6                            | B             | △                     | 2,500    | 500 | 750            | 0.5                    | 50               |
| 2005006      | 10.0                                   | 3.8                            | B             | △                     | 2,500    | 500 | 750            | 0.5                    | 50               |
| 2005007      | 8.0                                    | 3.9                            | C             | △                     | 2,500    | 500 | 750            | 0.5                    | 50               |
| 2005008      | 10.0                                   | 4.1                            | C             | △                     | 2,500    | 500 | 750            | 0.5                    | 50               |
| 2005009      | 8.0                                    | 3.5                            | D             | △                     | 2,500    | 500 | 750            | 0.5                    | 50               |
| 2005010      | 10.0                                   | 3.7                            | D             | △                     | 2,500    | 500 | 750            | 0.5                    | 50               |

\* Special lengths on request  
\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



A Triangle hook 01253 B Claw hook 01228



C Claw hook and keeper 01228SL D Rave hook CLRAVE



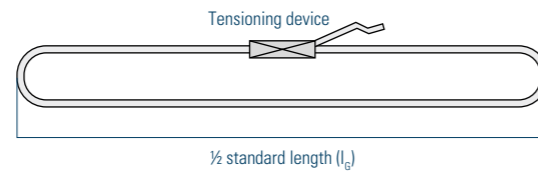
# MEDIUM DUTY RATCHETS

Ergo ratchet 5,000/50

- Ergo pull down action for tensioning
- Optional TFI (Tension Force Indicator)
- Individual printing is possible on request
- Ratchet lashing strap according to EN 12195-2
- Maximum Lashing Capacity 5,000 daN
- Ref. No. 20060

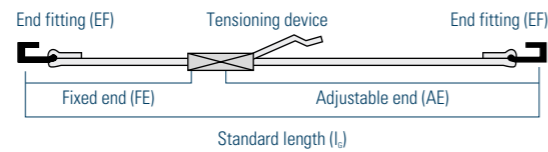


## One-piece



| Product code | Standard length*<br>l <sub>s</sub> [m] | Weight for l <sub>s</sub> [kg] | Surface Δ finished | LC [daN] | Strap width [mm] |
|--------------|--|--------------------------------|--------------------|----------|------------------|
| 2006001      | 6.0                                    | 2.8                            | △                  | 5.000    | 50               |
| 2006002      | 8.0                                    | 3.0                            | △                  | 5.000    | 50               |

## Two-piece



| Product code | Standard length*<br>l <sub>s</sub> [m] | Weight for l <sub>s</sub> [kg] | End fitting**<br>TFI | Surface Δ finished | LC [daN] | STF [daN] | With TFI [daN] | Standard length FE [m] | Strap width [mm] |
|--------------|--|--------------------------------|----------------------|--------------------|----------|-----------|----------------|------------------------|------------------|
| 2006003      | 8.0                                    | 3.4                            | A                    | △                  | 2,500    | 500       | 750            | 0.3                    | 50               |
| 2006004      | 10.0                                   | 3.6                            | A                    | △                  | 2,500    | 500       | 750            | 0.3                    | 50               |
| 2006005      | 10.0                                   | 3.7                            | B                    | △                  | 2,500    | 500       | 750            | 0.3                    | 50               |
| 2006006      | 10.0                                   | 3.9                            | B                    | △                  | 2,500    | 500       | 750            | 0.3                    | 50               |
| 2006007      | 8.0                                    | 3.3                            | C                    | △                  | 2,500    | 500       | 750            | 0.3                    | 50               |
| 2006008      | 10.0                                   | 3.5                            | C                    | △                  | 2,500    | 500       | 750            | 0.3                    | 50               |

\* Special lengths on request  
\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



A Claw hook 01228 B Claw hook and keeper 01228SL



C Rave hook CLRAVE



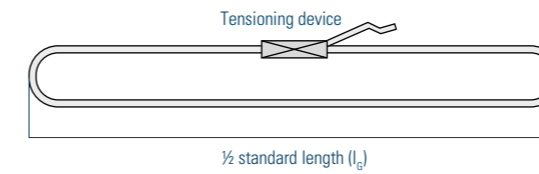
# MEDIUM DUTY RATCHETS

ABS ratchet 5,000/50

- Optional TFI (Tension Force Indicator)
- Individual interweaving or printing is possible on request
- Ratchet lashing strap according to EN 12195-2
- Maximum Lashing capacity 5,000 daN
- ABS system incorporated
- Ratchet with robust epoxy resin coating
- Ref. No. 20020

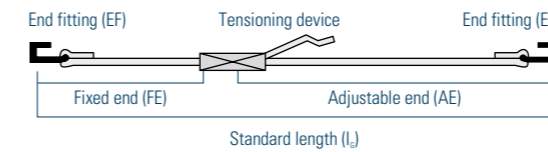


## One-piece



| Product code | Standard length*<br>l <sub>s</sub> [m] | Weight for l <sub>s</sub> [kg] | Surface Δ finished | LC [daN] | Strap width [mm] |
|--------------|--|--------------------------------|--------------------|----------|------------------|
| 2002001      | 6.0                                    | 2.6                            | △                  | 5.000    | 50               |
| 2002002      | 8.0                                    | 2.8                            | △                  | 5.000    | 50               |

## Two-piece



| Product code | Standard length*<br>l <sub>s</sub> [m] | Weight for l <sub>s</sub> [kg] | End fitting** | Surface Δ finished | LC [daN] | STF [daN] | Standard length FE [m] | Strap width [mm] |
|--------------|--|--------------------------------|---------------|--------------------|----------|-----------|------------------------|------------------|
| 2002003      | 8.0                                    | 3.8                            | A             | △                  | 2,500    | 450       | 0.5                    | 50               |
| 2002004      | 10.0                                   | 4.0                            | A             | △                  | 2,500    | 450       | 0.5                    | 50               |
| 2002005      | 8.0                                    | 3.3                            | B             | △                  | 2,500    | 450       | 0.5                    | 50               |
| 2002006      | 10.0                                   | 3.5                            | B             | △                  | 2,500    | 450       | 0.5                    | 50               |
| 2002007      | 8.0                                    | 3.6                            | C             | △                  | 2,500    | 450       | 0.5                    | 50               |
| 2002008      | 10.0                                   | 3.8                            | C             | △                  | 2,500    | 450       | 0.5                    | 50               |
| 2002009      | 8.0                                    | 3.1                            | D             | △                  | 2,500    | 450       | 0.5                    | 50               |
| 2002010      | 10.0                                   | 3.3                            | D             | △                  | 2,500    | 450       | 0.5                    | 50               |

\* Special lengths on request  
\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



A Triangle hook 01253 B Claw hook 01228



C Claw hook and keeper 01228SL D Rave hook CLRAVE



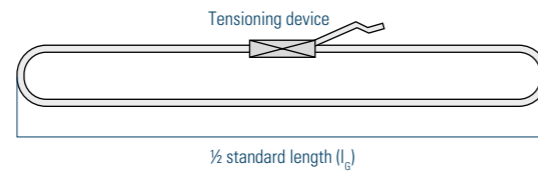
# MEDIUM DUTY RATCHETS

Ratchet 5,000/50  
„Econolash“

- Individual printing possible
- The self-locking ratchet lever prevents the ratchet springing open again later on in transit – even under heavy vibration and shaking.
- Ratchet lashing strap according to EN 12195-2
- Maximum Lashing Capacity 5,000 daN
- Ref. No. 01857

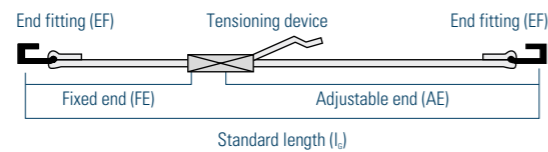


## One-piece



| Product code | Standard length* $l_g$ [m] | Weight for $l_g$ [kg] | Surface $\Delta$ finished | LC [daN] | Strap width [mm] |
|--------------|----------------------------|-----------------------|---------------------------|----------|------------------|
| 0185701      | 8.0                        | 2.4                   | $\Delta$                  | 5,000    | 50               |
| 0185702      | 10.0                       | 2.6                   | $\Delta$                  | 5,000    | 50               |

## Two-piece



| Product code | Standard length* $l_g$ [m] | Weight for $l_g$ [kg] | End fitting** | Surface $\Delta$ finished | LC [daN]  |     | Standard length FE [m] | Strap width [mm] |
|--------------|----------------------------|-----------------------|---------------|---------------------------|-----------|-----|------------------------|------------------|
|              |                            |                       |               |                           | STF [daN] |     |                        |                  |
| 0185703      | 8.0                        | 2.9                   | A             | $\Delta$                  | 2,500     | 450 | 0.5                    | 50               |
| 0185704      | 10.0                       | 3.1                   | A             | $\Delta$                  | 2,500     | 450 | 0.5                    | 50               |
| 0185705      | 8.0                        | 3.1                   | B             | $\Delta$                  | 2,500     | 450 | 0.5                    | 50               |
| 0185706      | 10.0                       | 3.3                   | B             | $\Delta$                  | 2,500     | 450 | 0.5                    | 50               |
| 0185707      | 8.0                        | 2.9                   | C             | $\Delta$                  | 2,500     | 450 | 0.5                    | 50               |
| 0185708      | 10.0                       | 3.1                   | C             | $\Delta$                  | 2,500     | 450 | 0.5                    | 50               |
| 0185709      | 8.0                        | 2.7                   | D             | $\Delta$                  | 2,500     | 450 | 0.5                    | 50               |
| 0185710      | 10.0                       | 2.9                   | D             | $\Delta$                  | 2,500     | 450 | 0.5                    | 50               |

\* Special lengths on request

\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



A Claw hook 01228



B Claw hook and keeper 01228SL



C Rave hook CLRAVE



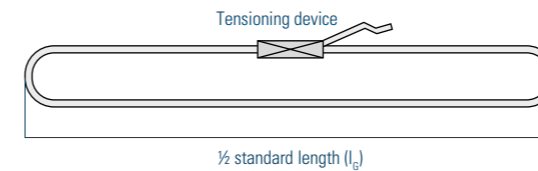
# MEDIUM DUTY RATCHETS

Ratchet 3,000/50

- Individual printing possible
- Ratchet with anti-corrosion coating
- Comfort handle grip
- Push up ratchet according to EN 12195-2
- Maximum Lashing Capacity 3,000 daN
- Ref. No.1806

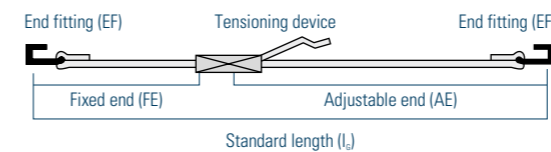


## One-piece



| Product code | Standard length* $l_g$ [m] | Weight for $l_g$ [kg] | Surface $\Delta$ finished | LC [daN] | Strap width b [mm] |
|--------------|----------------------------|-----------------------|---------------------------|----------|--------------------|
| 0180601      | 4.0                        | 1.8                   | $\Delta$                  | 3,000    | 50                 |
| 0180602      | 6.0                        | 2.0                   | $\Delta$                  | 3,000    | 50                 |

## Two-piece



| Product code | Standard length* $l_g$ [m] | Weight for $l_g$ [kg] | End fitting** | Surface $\Delta$ finished | LC [daN]  |     | Standard length FE [m] | Strap width b [mm] |
|--------------|----------------------------|-----------------------|---------------|---------------------------|-----------|-----|------------------------|--------------------|
|              |                            |                       |               |                           | STF [daN] |     |                        |                    |
| 0180603      | 4.0                        | 2.3                   | A             | $\Delta$                  | 1,500     | 350 | 0.5                    | 50                 |
| 0180604      | 6.0                        | 2.5                   | A             | $\Delta$                  | 1,500     | 350 | 0.5                    | 50                 |
| 0180605      | 4.0                        | 2.4                   | B             | $\Delta$                  | 1,500     | 350 | 0.5                    | 50                 |
| 0180606      | 6.0                        | 2.6                   | B             | $\Delta$                  | 1,500     | 350 | 0.5                    | 50                 |
| 0180607      | 4.0                        | 2.3                   | C             | $\Delta$                  | 1,500     | 350 | 0.5                    | 50                 |
| 0180608      | 6.0                        | 2.5                   | C             | $\Delta$                  | 1,500     | 350 | 0.5                    | 50                 |
| 0180609      | 4.0                        | 2.5                   | D             | $\Delta$                  | 1,500     | 350 | 0.5                    | 50                 |
| 0180610      | 6.0                        | 2.7                   | D             | $\Delta$                  | 1,500     | 350 | 0.5                    | 50                 |

\* Special lengths on request

\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



A Claw hook 01228



B Flat J hook 01244



C Rave hook CLRAVE



D Flat snap hook 01216



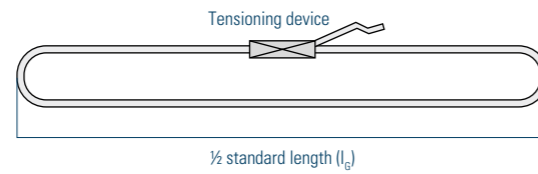
# LIGHT DUTY RATCHETS

Ratchet 1,500/50

- Individual printing possible
- Ratchet with anti-corrosion coating
- Wide ratchet handle provides particularly good ergonomics
- Push up ratchet according to EN 12195-2
- Maximum Lashing Capacity 1,500 daN
- Ref. No. 1805

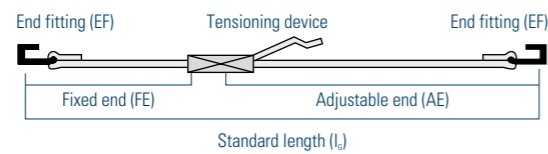


## One-piece



| Product code   | Standard length*<br>l <sub>s</sub> [m] | Weight for l <sub>s</sub> [kg] | Surface<br>Δ finished | LC [daN] | Strap width<br>b [mm] |
|----------------|--|--------------------------------|-----------------------|----------|-----------------------|
| <b>0180501</b> | 4,0                                    | 1,3                            | Δ                     | 1,500    | 50                    |
| <b>0180502</b> | 6,0                                    | 1,5                            | Δ                     | 1,500    | 50                    |

## Two-piece



| Product code   | Standard length*<br>l <sub>s</sub> [m] | Weight for l <sub>s</sub> [kg] | End fitting** | Surface<br>Δ finished | LC [daN] |           | Standard length FE [m] | Strap width<br>b [mm] |
|----------------|--|--------------------------------|---------------|-----------------------|----------|-----------|------------------------|-----------------------|
|                |  |                                |               |                       | LC [daN] | STF [daN] |                        |                       |
| <b>0180503</b> | 4,0                                    | 1,6                            | A             | Δ                     | 750      | 200       | 0,5                    | 50                    |
| <b>0180504</b> | 6,0                                    | 1,8                            | A             | Δ                     | 750      | 200       | 0,5                    | 50                    |
| <b>0180505</b> | 4,0                                    | 1,6                            | B             | Δ                     | 750      | 200       | 0,5                    | 50                    |
| <b>0180506</b> | 6,0                                    | 1,8                            | B             | Δ                     | 750      | 200       | 0,5                    | 50                    |
| <b>0180507</b> | 4,0                                    | 1,5                            | C             | Δ                     | 750      | 200       | 0,5                    | 50                    |
| <b>0180508</b> | 6,0                                    | 1,7                            | C             | Δ                     | 750      | 200       | 0,5                    | 50                    |
| <b>0180509</b> | 4,0                                    | 1,6                            | D             | Δ                     | 750      | 200       | 0,5                    | 50                    |
| <b>0180510</b> | 6,0                                    | 1,8                            | D             | Δ                     | 750      | 200       | 0,5                    | 50                    |

\* Special lengths on request

\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)

A Snap hook **01209**



B Claw hook **01224**



C Low profile claw hook **01263**



D Track hook **01265**



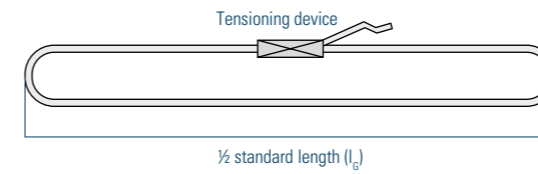
# LIGHT DUTY RATCHETS

Ratchet 500/25 stainless,  
Ratchet 500/25

- Individual printing possible
- Stainless ratchet with 13% chrome in the steel for permanent protection against rust
- Ratchet lashing strap according to EN 12195-2
- Maximum Lashing Capacity 500 daN
- Ref. No. 01802SS / 01802

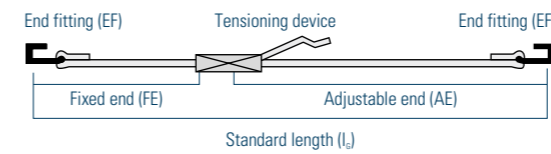


## One-piece



| Product code   | Stainless steel | Standard length*<br>l <sub>s</sub> [m] | Weight for l <sub>s</sub> [kg] | Surface<br>Δ finished | LC [daN] | Strap width<br>b [mm] |
|----------------|-----------------|--|--------------------------------|-----------------------|----------|-----------------------|
| <b>0180201</b> |                 | 4,0                                    | 0,4                            | Δ                     | 500      | 25                    |
| <b>0180202</b> |                 | 6,0                                    | 0,4                            | Δ                     | 500      | 25                    |
| <b>S180201</b> | ■               | 4,0                                    | 0,4                            | Δ                     | 500      | 25                    |
| <b>S180202</b> | ■               | 6,0                                    | 0,4                            | Δ                     | 500      | 25                    |

## Two-piece



| Product code   | Stainless steel | Standard length*<br>l <sub>s</sub> [m] | Weight for l <sub>s</sub> [kg] | End fitting** | Surface<br>Δ finished | LC [daN] |           | Standard length FE [m] | Strap width<br>b [mm] |
|----------------|-----------------|--|--------------------------------|---------------|-----------------------|----------|-----------|------------------------|-----------------------|
|                |                 |  |                                |               |                       | LC [daN] | STF [daN] |                        |                       |
| <b>S180203</b> | ■               | 4,0                                    | 0,6                            | A             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>S180204</b> | ■               | 6,0                                    | 0,6                            | A             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>0180203</b> |                 | 4,0                                    | 0,6                            | A             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>0180204</b> |                 | 6,0                                    | 0,6                            | A             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>S180205</b> | ■               | 4,0                                    | 0,6                            | B             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>S180206</b> | ■               | 6,0                                    | 0,6                            | B             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>0180205</b> |                 | 4,0                                    | 0,6                            | B             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>0180206</b> |                 | 6,0                                    | 0,6                            | B             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>S180207</b> | ■               | 4,0                                    | 0,7                            | C             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>S180208</b> | ■               | 6,0                                    | 0,7                            | C             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>0180207</b> |                 | 4,0                                    | 0,7                            | C             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>0180208</b> |                 | 6,0                                    | 0,7                            | C             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>S180209</b> | ■               | 4,0                                    | 0,5                            | D             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>S180210</b> | ■               | 6,0                                    | 0,5                            | D             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>0180209</b> |                 | 4,0                                    | 0,5                            | D             | Δ                     | 250      | 0,3       | 25                     |                       |
| <b>0180210</b> |                 | 6,0                                    | 0,5                            | D             | Δ                     | 250      | 0,3       | 25                     |                       |

\* Special lengths on request

\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)

Stainless steel



A Claw hook **01298**



B S hook **01203**



C Snap hook **01209**



D Cranked plate **01414**



EPX



## TENSION FORCE INDICATOR

### TFI – Tension Force Indicator

- With the TFI, you can verify the pre-tensioning force that is actually attainable
- Verifies that up to 60% fewer lashing straps can be used
- For fixed and adjustable ends
- Very easy to read thanks to signal colour



### Achieve the maximum pre-tensioning force in a cost-effective and precise manner.



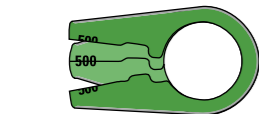
#### The TFI – Tension Force Indicator

Normally, when determining the pre-tensioning force, additional electronic devices are used. These are very accurate, but also expensive. More than ten years ago, SpanSet developed a unique mechanical aid – the Tension Force Indicator. The TFI reliably shows the pre-tensioning force that has been achieved – to do so, it is installed directly on the tensioning device. Well-protected and extremely easy to read! Many of our products have already been fitted with TFIs as standard, meaning that expensive measurements are now a thing of the past.

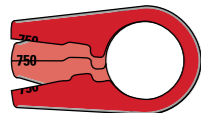
#### Achieve the maximum pre-tensioning force in a verifiable manner with the TFI

The TFI helps you to make the best possible use of your lashing straps, achieving maximum performance. The pre-tensioning force display makes it simple for you to measure the pre-tensioning force applied and to provide evidence of this with no problems in the event of a check. The two jaws of the TFI close when tension is added.

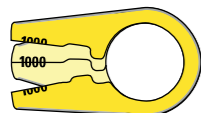
Once the full pre-tensioning force has been reached, the jaws are pressed together (form fit). In this way, you can prove the pre-tensioning force applied in the system quickly and directly. If the lashing strap loses tension during the journey, the jaws of the TFI will not be fully closed, indicating that re-tensioning is necessary in the event of doubt.



1: TFI 500 daN



2: TFI 750 daN



3: TFI 1.000 daN

The Tension Force Indicator, designed for 50mm-lashing straps, is available in different versions, with 500 (green), 750 (red) and 1,000 (yellow) daN/STF pre-tensioning displays, tailored to the relevant lashing systems. As the TFI design uses signal colours, it also makes it easier to read the pre-tensioning force in poor light conditions.

#### Additional use of TFI at adjustable end

In addition to the TFI at the fixed end, the TFI can also be used at the adjustable end. For this, there is an adaptor available for the TFI which can be integrated into the current end fittings. In addition, SpanSet has specially designed a delta hook to which the TFI can easily be attached. This results in an additional cost saving, as no adaptor is then required. Alongside the even higher verifiable pre-tensioning force, the K-factor (1.5) is no longer significant, as a lashing force can also be proven at the adjustable end.

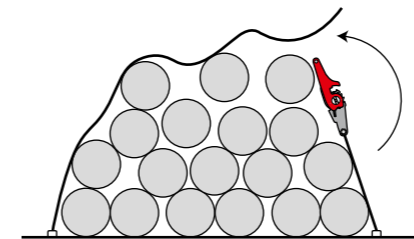
In addition to your own safety, the unique TFI guarantees the necessary traceability for the authorities and is also listed as a system component in the GS test descriptions. This means that not only does the Tension Force Indicator from SpanSet ensure greater cost-effectiveness, it also guarantees greater safety when using lashing systems.

#### SpanSet – Certified Safety

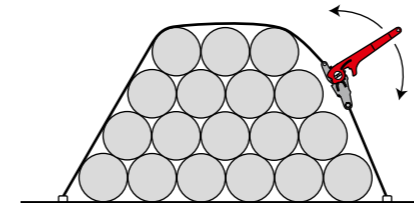


#### “Anti-Belt-Slip” procedure (ABS)

The ratchet is opened, the tension releases spontaneously, and the load gets out of control: anyone who has experienced this knows how important ABS is. It means you have complete control even during release. The ABS system lets you release the pre-tension force in small steps. This gives you the opportunity to use a forklift truck to straighten up any loads that threaten to tip and are leaning into the strap, helping prevent damage and accidents.



Without ABS



With ABS

#### Be certain of the right tension

When it comes to pre-tensioning forces in your lashing strap system, you need to be smart with your calculations. According to EN 12195-1, you may normally only take into account the STF value of the fixed end and 50% of the pretensioning force of the fixed end for the adjustable end. However, if you can prove that a greater pre-tensioning force is achieved, you can take into account this force. So if you can prove 750 daN on both the fixed end and the adjustable end, for example, you can include this 1,500 daN total pre-tension force in your calculations.

We have developed a unique aid that quickly and reliably shows you the pre-tensioning force actually achieved directly at the ratchet and at the adjustable end: in steps of 250, 500 and max. 750 daN.

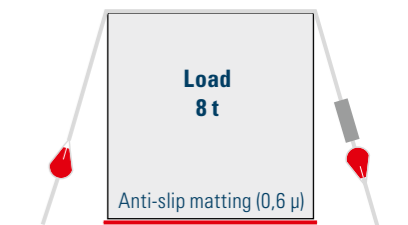
With optimum pre-tensioning, you will thus achieve a load security that can be proven, which will stand up to inspection by police checks, and at the same time reduce the number of lashing items required. So for each load, you'll save on lashing equipment and time.

## ANTI BELT-SLIP AND TENSION FORCE INDICATOR

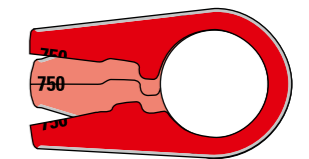
### ABS, TFI and adjustable end TFI

- TFI optional on all 50 mm strap ratchets
- Indicates actual pre-tension
- Adjustable end compatible with several end fittings

#### ErgoABS ratchet with TFI at adjustable end and ratchet end



1. Total pre-tensioning force necessary: 2,626 daN
2. TFI-Displays at ratchet and adjustable ends read 2 x “750” = 1,500 daN
3. You need: 2 x Ergo ABS with a pre-tensioning force of 1,500 daN = 3,000 daN



Tension Force Indicator

## VEHICLE RECOVERY & TRANSPORTATION

Carfix – Car transport safety device

- Complies with DIN EN 12195-2
- Satisfies VDI Directive 2700 Sheet 8
- Other hook types are possible
- Also available with individual print on request



### 4 steps to your Carfix lashing strap

#### 1,500 and 2,500 kg lashing capacity

SpanSet Carfix is available in versions with webbing straps measuring 35 mm or 50 mm in width, and with a lashing capacity of 1,500 or 2,500 daN, in a straight pull. The Carfix system has a particularly low webbing stretch (~4%) and is therefore especially well-suited to transporting vehicles.

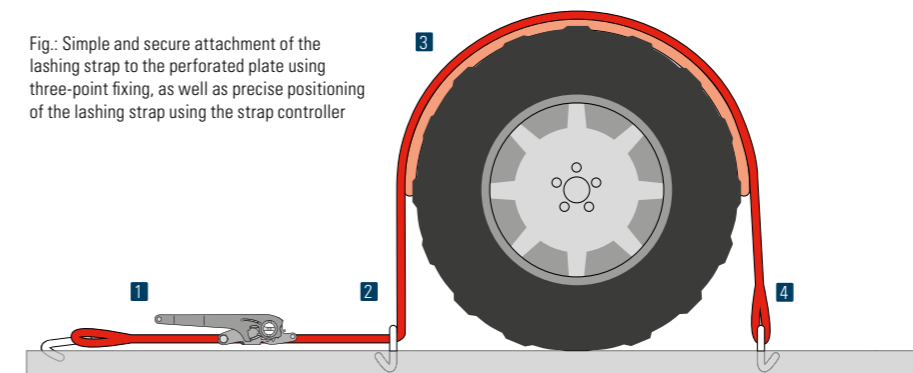
#### „Secured by 3 hooks“

With the right handling, the three-point attachment with hooks at the fixed end **1**, adjustable end **4** and running freely on the adjustable end guarantees fast, secure attachment and ease of use for the user. The moveable swivel hook that can be rotated through 360° or the traditional claw hook can be selected for attachment to the perforated plate. Other hook types are also available on request.

#### Stable grip and protection for the webbing strap

The strap controller **3** comes as standard with both lashing strap variants. During transport, the particularly pronounced profile on the underside of the strap controller grips very well to the tyre and remains in a stable position, while the webbing strap on the inside can glide perfectly during tensioning. In addition, the webbing strap controller protects both the webbing strap and the tyres of the vehicle. There is also the option of edge reinforcement (piped edge), which extends the durability of the controller. Simply select the lashing strap you require and your preferred hook, and put together your individual Carfix lashing straps easily using the tables (on the right).

Fig.: Simple and secure attachment of the lashing strap to the perforated plate using three-point fixing, as well as precise positioning of the lashing strap using the strap controller



### Loose Carfix controllers

| Product code |                       | Standard Length [mm] | Weight [kg] | Strap width [mm] |
|--------------|-----------------------|----------------------|-------------|------------------|
| VTS01        | Carfix strap only     | 2500                 | 2.0         | 50               |
| VTS02        | Carfix strap & sleeve | 2500                 | 2.3         | 50               |
| VTS03        | Carfix sleeve loose   | 750                  | -           | 50               |



A WH - Swivel hook

B SPH - Claw hook



## VEHICLE RECOVERY SYSTEMS

Wheel straps  
Bracing straps

- Manufactured to BSEN 12195-2
- Universal size up to 3.5 tonnes
- Replaceable bracing strap
- Max Lashing Capacity 1,500 daN



### Wheel straps for easy recovery

The two directional wheel straps are designed for use with vehicle recovery transporters for simple but effective restraint of recovered road vehicles. With the casualty vehicle winched onto the deck of the recovery vehicle, it can be safely secured for onward

transportation with a set of 4 SpanSet wheel straps. The vehicle is restrained from movement in either direction without the need for chocks or any additional tools.

The wheel straps are a universal fitting for all cars and vans up to 3.5 tonnes and may be used with any chassis length or wheel size. All straps are of a heavy duty design and incorporate sturdy snap hooks fitted each end. The snap hook will fit comfortably over most lashing rings in the vehicle deck and prevents accidental release of the hook.

### Bracing straps prevent scratches

Each wheel strap comes complete with a bracing strap which fits across the front of the wheel. The bracing straps are interchangeable and may be replaced. They are available as either standard or soft types.

The standard bracing strap has three thicknesses of webbing to give it strength and rigidity which makes it easier to fit. It has a built in backing pad to protect alloy wheels from being marked. The soft bracing strap has no metal components around the wheel and is ideal for lighter weight or sports car recovery.

### Wheel strap / Bracing strap

| Product Code |                      | Standard Length [mm] | Weight [kg] | LC [daN] | Strap Width [mm] |
|--------------|----------------------|----------------------|-------------|----------|------------------|
| VR005        | Wheel strap complete | 4150                 | 2.8         | 1500     | 50               |
| VR008        | Wheel strap complete | 4150                 | 2.5         | 1500     | 50               |
| VR956        | Bracing strap only   | 400                  | 0.5         | -        | 50               |
| VR957        | Bracing strap soft   | 400                  | 0.2         | -        | -                |



## VEHICLE RECOVERY SYSTEMS

Centre pull strap  
Spectacle frame strap

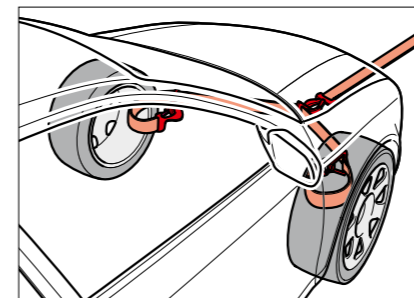
- Manufactured to BSEN 12195-2
- Universal size up to 3.5 tonnes
- Max Lashing Capacity 1,200 daN



### Centre pull strap

The centre pull straps are designed for use with vehicle recovery transporters to enable the securing of the casualty vehicle to the transporter winch rope. The winch rope hook fits neatly into the floating centre connector so that it automatically locates its centre pull point and applies even tension to each leg of the strap. This allows the vehicle to be winched safely without slewing.

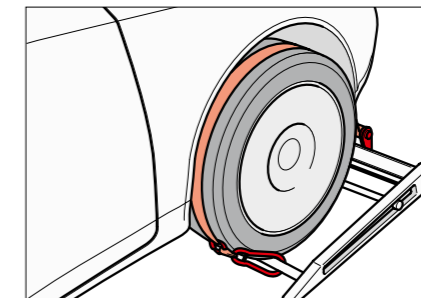
The centre pull straps are a universal fitting for all cars and light commercial vehicles. Each end of the strap can be easily passed around the front axle or wishbone and secured with the snap hook. The heavy duty webbing construction avoids damage to the vehicle body but is tough and durable and easy to handle in comparison to chain.



### Spectacle frame strap

When a vehicle is being recovered using a spectacle frame to lift the wheels the spectacle frame straps are the ideal solution for quickly securing the vehicle at the roadside. The strap incorporates two stainless steel carbine snap hooks which can easily be fitted over the bars of the frame at the rear of wheel.

The spectacle frame straps are a universal fitting for all cars and light commercial vehicles and must be used in pairs. The ratchet tensioner is bolted to the frame and is available separately. The spectacle frame strap does not include the ratchet.



### Spectacle frame strap / Centre pull strap

| Product Code |                   | Standard Length [mm] | Weight [kg] | LC [daN] | Strap Width [mm] |
|--------------|-------------------|----------------------|-------------|----------|------------------|
| VR001        | Spec frame strap  | 2500                 | 1.2         | 1200     | 50               |
| VR958        | Centre pull strap | 2000                 | 1.5         | -        | 50               |



Centre pull strap



Spectacle frame strap

# 03.3



## **Cambuckles and Overcentre buckles**

|  |    |
|--|----|
| Cambuckle lashing straps 200/25 & 700/25 | 40 |
| Cambuckles 1,000/50                      | 41 |
| Overcentre buckles 01138 & 01148         | 42 |
| Overcentre buckles 01150                 | 43 |

# 03.3



## Cambuckle and Overcentre buckle lashings keep small loads together quickly and easily

With the cambuckle lashing straps from SpanSet, bundling and fastening goods of all types is easy. They are ideal for bundling materials for transportation or storage. The overcentre buckle internal restraints hold your load securely and prevent damage to your vehicle. SpanSet buckles are also ideally suited as internal restraints in box trailers where overtensioning of the strap is to be avoided.

**Thermally precision-fastened webbing**  
Others take the easy route. We produce our webbings under strict control. This is the only way we can have full control of strap quality. The result: high accuracy of fit with optimum widths and thicknesses tailored to the respective buckle. This means easy handling and a secure hold in the buckle.

**Finishing included**  
The webbing in our cambuckle and overcentre buckle lashing straps is treated, which means that they undergo a finishing process that makes the straps less sensitive to wear and abrasion.

**High-quality material**  
The cambuckles hold the strap under tension. It's no surprise that, with your security in mind, we pay attention to this quality detail too and test the clamps regularly. The end result is that the strongest of our cambuckle lashing straps can hold loads of up to one tonne in check

**Security needs checks**  
Our cambuckle and overcentre buckle lashing straps have a security label according to EN 12195-2. It contains the prescribed details of the maximum lashing capacity (LC) depending on the use. The label is sewn firmly into the strap and the internal section of the label preventing the critical information from being lost. The lashing strap may not be used without this label.

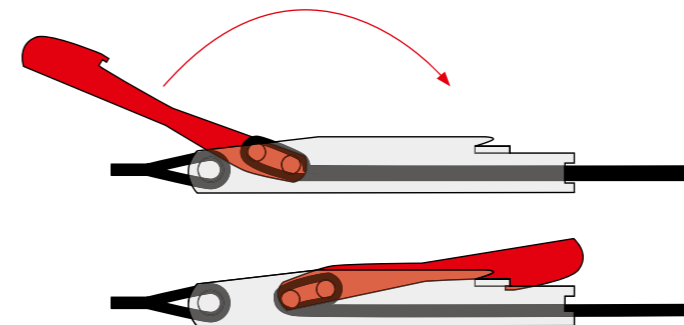


Figure 1: Overcentre buckle lashing strap

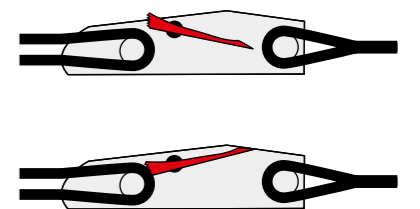


Figure 2: Cambuckle lashing strap

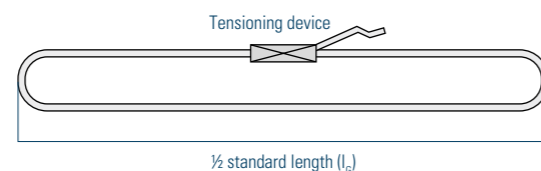
# CAMBUCKLES

Cambuckle lashing straps  
200/25 and 700/25

- Individual printing possible
- The one-piece lashing strap is used for strapping the load and therefore does not need any end fittings.
- Cambuckle lashing strap according to EN 12195-2
- Max. Lashing Capacity 200 / 700 daN
- Ref. No. 01155 / 01152

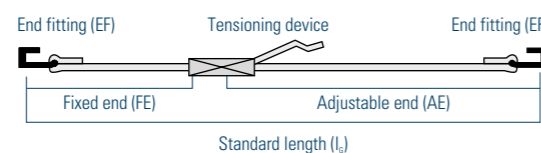


## One-piece



| Product code | Standard length*<br>l <sub>g</sub> [m] | Weight<br>for l <sub>g</sub> [kg] | Surface<br>Δ finished | LC [daN] | Strap<br>width<br>[mm] |
|--------------|--|-----------------------------------|-----------------------|----------|------------------------|
| 0115501      | 4.0                                    | 0.2                               | △                     | 200      | 25                     |
| 0115502      | 6.0                                    | 0.3                               | △                     | 700      | 25                     |

## Two-piece



| Product code | Standard length*<br>l <sub>g</sub> [m] | Weight<br>for l <sub>g</sub> [kg] | End fitting** | Surface<br>Δ finished | LC [daN] | Standard length<br>FE [m] | Strap<br>width<br>[mm] |
|--------------|--|-----------------------------------|---------------|-----------------------|----------|---------------------------|------------------------|
| 0115503      | 4.0                                    | 0.3                               | A             | △                     | 100      | 0.3                       | 25                     |
| 0115203      | 4.0                                    | 0.4                               | A             | △                     | 350      | 0.3                       | 25                     |
| 0115504      | 6.0                                    | 0.3                               | A             | △                     | 100      | 0.3                       | 25                     |
| 0115204      | 6.0                                    | 0.4                               | A             | △                     | 350      | 0.3                       | 25                     |
| 0115505      | 4.0                                    | 0.4                               | B             | △                     | 100      | 0.3                       | 25                     |
| 0115205      | 4.0                                    | 0.5                               | B             | △                     | 350      | 0.3                       | 25                     |
| 0115506      | 6.0                                    | 0.4                               | B             | △                     | 100      | 0.3                       | 25                     |
| 0115206      | 6.0                                    | 0.5                               | B             | △                     | 350      | 0.3                       | 25                     |
| 0115507      | 4.0                                    | 0.5                               | C             | △                     | 100      | 0.3                       | 25                     |
| 0115207      | 4.0                                    | 0.6                               | C             | △                     | 350      | 0.3                       | 25                     |
| 0115508      | 6.0                                    | 0.5                               | C             | △                     | 100      | 0.3                       | 25                     |
| 0115208      | 6.0                                    | 0.6                               | C             | △                     | 350      | 0.3                       | 25                     |
| 0115509      | 4.0                                    | 0.4                               | D             | △                     | 100      | 0.3                       | 25                     |
| 0115209      | 4.0                                    | 0.5                               | D             | △                     | 350      | 0.3                       | 25                     |
| 0115510      | 6.0                                    | 0.4                               | D             | △                     | 100      | 0.3                       | 25                     |
| 0115210      | 6.0                                    | 0.5                               | D             | △                     | 350      | 0.3                       | 25                     |

\* Special lengths on request

\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



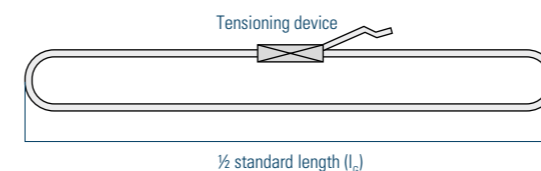
# CAMBUCKLES

Cambuckle lashing straps  
1,000/50

- Individual printing possible
- The one-piece lashing strap is used for strapping the load and therefore does not need any end fittings
- Cambuckle lashing strap according to EN 12195-2
- Maximum Lashing Capacity 1,000 daN
- Ref. No. 01154

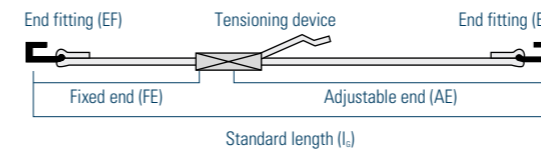


## One-piece



| Product code | Standard length*<br>l <sub>g</sub> [m] | Weight<br>for l <sub>g</sub> [kg] | Surface<br>Δ finished | LC [daN] | Strap<br>width<br>[mm] |
|--------------|--|-----------------------------------|-----------------------|----------|------------------------|
| 0115401      | 4.0                                    | 0.5                               | △                     | 1,000    | 50                     |
| 0115402      | 6.0                                    | 0.5                               | △                     | 1,000    | 50                     |

## Two-piece



| Product code | Standard length*<br>l <sub>g</sub> [m] | Weight<br>for l <sub>g</sub> [kg] | End fitting** | Surface<br>Δ finished | LC [daN] | Standard length<br>FE [m] | Strap<br>width<br>[mm] |
|--------------|--|-----------------------------------|---------------|-----------------------|----------|---------------------------|------------------------|
| 0115403      | 4.0                                    | 0.8                               | A             | △                     | 500      | 0.3                       | 50                     |
| 0115404      | 6.0                                    | 0.8                               | A             | △                     | 500      | 0.3                       | 50                     |
| 0115405      | 4.0                                    | 0.8                               | B             | △                     | 500      | 0.3                       | 50                     |
| 0115406      | 6.0                                    | 0.8                               | B             | △                     | 500      | 0.3                       | 50                     |
| 0115407      | 4.0                                    | 0.9                               | C             | △                     | 500      | 0.3                       | 50                     |
| 0115408      | 6.0                                    | 0.9                               | C             | △                     | 500      | 0.3                       | 50                     |
| 0115409      | 4.0                                    | 0.9                               | D             | △                     | 500      | 0.3                       | 50                     |
| 0115410      | 6.0                                    | 0.9                               | D             | △                     | 500      | 0.3                       | 50                     |

\* Special lengths on request

\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



A Snap hook 01209 B Claw hook 01224



C Flat J hook 01241 D Flat snap hook 01219

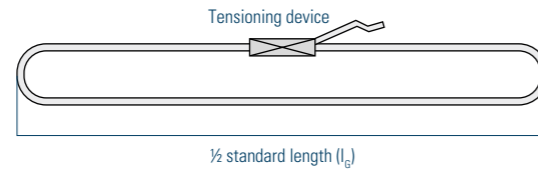
# OVERCENTRE BUCKLES

Overcentre buckles  
01138, 01148

- Overcentre buckle lashing strap
- Buckle with anti-corrosion coating
- Max. Lashing Capacity 750 / 2,000 daN
- Ref. No. 01138 / 01148

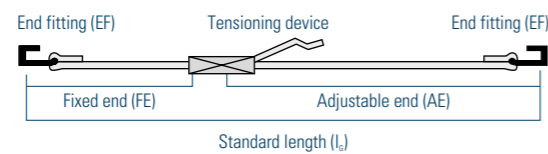


## One-piece



| Product code   | Standard length*<br>l <sub>s</sub> [m] | Weight<br>for l <sub>s</sub> [kg] | Surface<br>Δ finished | LC [daN] | Strap<br>width<br>[mm] |
|----------------|--|-----------------------------------|-----------------------|----------|------------------------|
| <b>0113801</b> | 4.0                                    | 0.6                               | △                     | 750      | 50                     |
| 0113802        | 6.0                                    |                                   |                       |          |                        |
| <b>0114801</b> | 4.0                                    | 0.7                               | △                     | 2,000    | 50                     |
| 0114802        | 6.0                                    |                                   |                       |          |                        |

## Two-piece



| Product code   | Standard length*<br>l <sub>s</sub> [m] | Weight<br>for l <sub>s</sub> [kg] | End fitting<br>(VE)** | Surface<br>Δ finished | LC [daN] | Standard length<br>FE [m] | Strap width<br>b [mm] |
|----------------|--|-----------------------------------|-----------------------|-----------------------|----------|---------------------------|-----------------------|
| <b>0113803</b> | 4.0                                    | 0.8                               | A                     | △                     | 375      | 2.0                       | 50                    |
| 0114803        | 6.0                                    | 0.9                               |                       |                       |          |                           |                       |
| <b>0113804</b> | 6.0                                    | 0.8                               | A                     | △                     | 375      | 3.0                       | 50                    |
| 0114804        | 6.0                                    | 0.9                               |                       |                       |          |                           |                       |
| <b>0113805</b> | 4.0                                    | 1.1                               | B                     | △                     | 375      | 2.0                       | 50                    |
| 0114805        | 4.0                                    | 1.2                               |                       |                       |          |                           |                       |
| <b>0113806</b> | 6.0                                    | 1.1                               | B                     | △                     | 375      | 3.0                       | 50                    |
| 0114806        | 6.0                                    | 1.2                               |                       |                       |          |                           |                       |
| <b>0113807</b> | 4.0                                    | 0.8                               | C                     | △                     | 375      | 2.0                       | 50                    |
| 0114807        | 4.0                                    | 0.9                               |                       |                       |          |                           |                       |
| <b>0113808</b> | 6.0                                    | 0.8                               | C                     | △                     | 375      | 3.0                       | 50                    |
| 0114808        | 6.0                                    | 0.9                               |                       |                       |          |                           |                       |
| <b>0113809</b> | 4.0                                    | 0.8                               | D                     | △                     | 375      | 2.0                       | 50                    |
| 0114809        | 4.0                                    | 0.9                               |                       |                       |          |                           |                       |
| <b>0113810</b> | 6.0                                    | 0.8                               | D                     | △                     | 375      | 3.0                       | 50                    |
| 0114810        | 6.0                                    | 0.9                               |                       |                       |          |                           |                       |

\* Special lengths on request

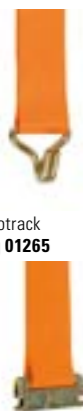
\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



01148

01138

**A** Low profile  
claw hook **01263**



**B** Slide fitting **B023**



**C** Eurotrack  
fitting **01265**



**D** Rave hook **CLRAVE**



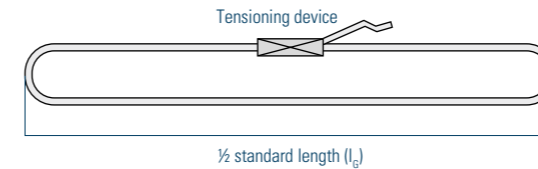
# OVERCENTRE BUCKLES

Overcentre buckles  
01150

- Overcentre buckle lashing strap according to EN 12195-2
- Buckle with anti-corrosion coating
- Max. Lashing Capacity 2,000 daN
- Ref. No. 01150

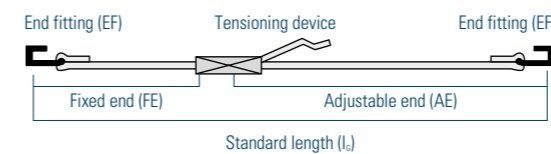


## One-piece



| Product code   | Standard length*<br>l <sub>s</sub> [m] | Weight<br>for l <sub>s</sub> [kg] | Surface<br>Δ finished | LC [daN] | Strap<br>width<br>[mm] |
|----------------|--|-----------------------------------|-----------------------|----------|------------------------|
| <b>0115001</b> | 4.0                                    | 1.1                               | △                     | 2,000    | 45                     |
| 0115002        | 6.0                                    | 1.2                               |                       |          |                        |

## Two-piece



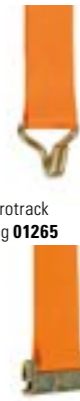
| Product code   | Standard length*<br>l <sub>s</sub> [m] | Weight<br>for l <sub>s</sub> [kg] | End fitting<br>(VE)** | Surface<br>Δ finished | LC [daN] | Standard length<br>FE [m] | Strap width<br>b [mm] |
|----------------|--|-----------------------------------|-----------------------|-----------------------|----------|---------------------------|-----------------------|
| <b>0115003</b> | 4.0                                    | 1.3                               | A                     | △                     | 1000     | 2.0                       | 45                    |
| 0115004        | 6.0                                    | 1.4                               |                       |                       |          |                           |                       |
| <b>0115005</b> | 4.0                                    | 1.5                               | B                     | △                     | 1000     | 2.0                       | 45                    |
| 0115006        | 6.0                                    | 1.6                               |                       |                       |          |                           |                       |
| <b>0115007</b> | 4.0                                    | 1.4                               | C                     | △                     | 1000     | 2.0                       | 45                    |
| 0115008        | 6.0                                    | 1.5                               |                       |                       |          |                           |                       |
| <b>0115009</b> | 4.0                                    | 1.3                               | D                     | △                     | 1000     | 2.0                       | 45                    |
| 0115010        | 6.0                                    | 1.4                               |                       |                       |          |                           |                       |

\* Special lengths on request

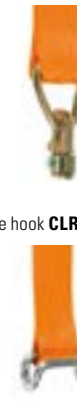
\*\* Other end fittings available. Sizes and details of the end fittings can be found at [www.spanset.co.uk](http://www.spanset.co.uk)



**A** Low profile  
claw hook **01263**



**B** Slide fitting **B032**



**C** Eurotrack  
fitting **01265**



**D** Rave hook **CLRAVE**



# 03.4



## Shoring equipment

|                          |    |
|--------------------------|----|
| TRUXAFE side slats       | 48 |
| TRUXAFE cross beams      | 49 |
| TRUXAFE diagonal lashing | 50 |
| Track profiles           | 51 |
| Shoring bars             | 52 |
| Garment rails            | 53 |
| Cups and bulkhead bars   | 54 |
| Decking beams            | 55 |



# 03.4



## Shoring equipment – securely fastened from every direction

SpanSet can design and engineer a load restraint package to suit your operational requirements.

### Fast and convenient

With our range of shoring bars, a basic load control can easily be achieved. The expandable bars fit into any rigid box or trailer with minimal effort. Made from plated steel or lightweight aluminium, they prevent your load from sliding around the cargo area. An extensive array of load blocking arrangements can easily be achieved and is complimented by our range of internal restraint straps to provide you with total control over your load. This means safety from start to finish: the goods don't get damaged, operators won't get injured by loose cargo and the vehicle does not get damaged.

Bulkhead bars can be used to protect the vehicle bulkhead from damage. Expanding rubber footed bars may be used inside the rear door of trailers or containers to protect operators from injury. Decking beams can be inserted to create double-decks for more versatile use of the load space.

### Easy form-fitting load security with TRUXAFE

The structural rigidity of curtainsiders is laid down in EN 12642. This in itself does not complete the picture for the load security: restrain the complete package using TRUXAFE.

### Highly effective

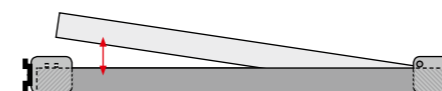
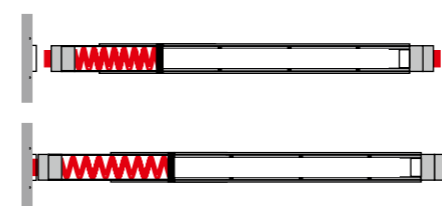
Practical, light-weight and robust – these features characterise all TRUXAFE system components. This includes aluminium side slats, locking bars and tension straps. Using these three components, you can secure almost any load, such as drums, 'Big Bags' or even rolls of toilet tissue, using cutting-edge technology – and it's form-fitting, due to its reinforced structure. In order to optimise its effectiveness, simply use additional securing components such as our protective air bags or SpanSet Grip non-slip matting (page 55 ff).

### Economic transport solution

Those who are already aware of unreliable and costly load security will value TRUXAFE not only as an economical transport solution, but also one that meets legal requirements. The system components are speedily put together, quickly assembled and will withstand the rough everyday life of transportation for years.

### Safety for people and goods

As TRUXAFE significantly increases the structural rigidity of curtainsiders, you can count on improved driving quality for your vehicles, which improves safety. Furthermore, maintenance costs for sliding tarpaulins and loadspace rear doors will also be reduced.



## SHORING EQUIPMENT

TRUXAFE  
side slats



## SHORING EQUIPMENT

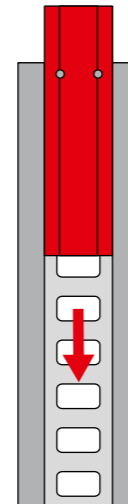
TRUXAFE  
cross beams

- Can be loaded to max. 2,500 daN (distributed load)
- Quick to install, easy to stow away

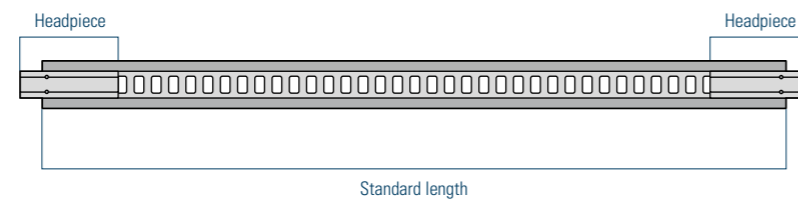


### High-strength side slats

Stabilise side walls: For the TRUXAFE side slats, this means absorbing up to four times more load than standard side slats. In concrete terms, this could be 400 daN lumped load and 800 daN distributed load. The robust aluminium side slats are easy to handle at just 11.7 kg. Thanks to the adjustable head-pieces that can be screwed in or out (and which are placed in the stantion pockets), their structure is also adjustable in length.



### TRUXAFE side slat



| Product code   | Standard length [mm] | Height [mm] | Depth [mm] | Weight [kg] | Lumped load [daN] | Distributed load [daN] | Length of head-piece [mm] |
|----------------|----------------------|-------------|------------|-------------|-------------------|------------------------|---------------------------|
| <b>D006777</b> | 3,050                | 175         | 35         | 11.7        | 400               | 800                    | 275                       |

### Cross beams as reinforcement

In addition to the side slats, you can also give your load additional support with TRUXAFE cross beams. They can be laden with up to 2,500 daN. The bars, which weigh almost 12 kg, are simply suspended using the hook ends in the grid cutouts of the side slats. This transfers the forces to the side slats on both sides of the vehicle.

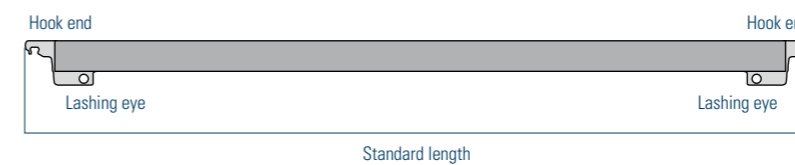
### The advantages are obvious:

- Quick to install
- Secures loads of up to 2 t per 1 m structural length

### Cross beam variants for light and fragile goods

We recommend the narrow cross beam design for the transport of fragile goods. Their surface, 175 mm high, protects your goods but can also be laden with up to 1,000 daN distributed loads. In addition, you can attach lashing hooks and other securing equipment to their extra anchor points.

### TRUXAFE cross beam



| Product code   | Standard length [mm] | Height [mm] | Depth [mm] | Weight [kg] | Distributed load [daN] |
|----------------|----------------------|-------------|------------|-------------|------------------------|
| <b>D006458</b> | 2,540                | 127         | 80         | 11.8        | 2,500                  |
| <b>D013527</b> | 2,540                | 175         | 35         | 10.3        | 1,000                  |



# SHORING EQUIPMENT

## TRUXAFE diagonal lashing

- Brace side slats and locking bars securely
- Proven tension strap construction
- Approved by The Association of German Engineers (VDI)



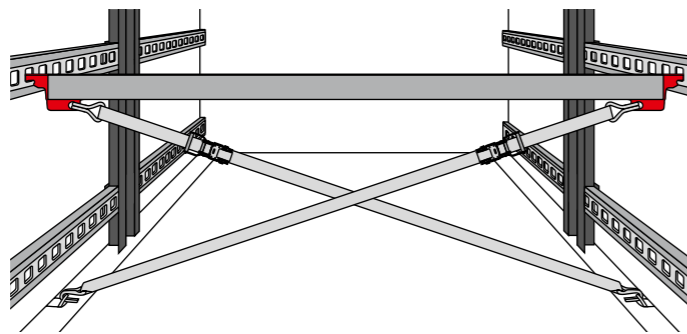
**A** Claw hook **01228**    **B** Rave hook **CLRAVE**



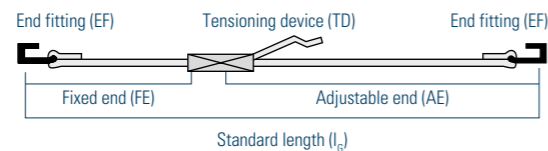
### Transmit forces diagonally

The last step in optimising the security of your load can be carried out using TRUXAFE diagonal tension straps. They are really easy to fasten: at the top to the standard locking

bar hook eyes, and at the bottom to the lashing point or on the rave rail of the loading surface. Tensioned diagonally, they transfer the lateral loads to the vehicle floor and thus relieve the side slats and stanchions.



### TRUXAFE diagonal lashing



| Product code | Standard length* $l_g$ [m] | Weight for $l_g$ [kg] | End fitting** | Surface $\Delta$ finished | LC [daN] | Standard length FE [m] | Strap width [mm] |
|--------------|----------------------------|-----------------------|---------------|---------------------------|----------|------------------------|------------------|
| 0180511      | 3.5                        | 1.8                   | A             | $\Delta$                  | 1,000    | 0.5                    | 50               |
| 0180512      | 3.5                        | 1.5                   | A + B         | $\Delta$                  | 1,000    | 0.5                    | 50               |
| 0185711      | 3.5                        | 3.4                   | B             | $\Delta$                  | 2,500    | 0.3                    | 50               |
| 0185712      | 3.5                        | 3.0                   | A + B         | $\Delta$                  | 2,500    | 0.3                    | 50               |

\* Special lengths on request

\*\* Sizes and details of the connection elements can be found at [www.spanset.co.uk](http://www.spanset.co.uk)

# SHORING EQUIPMENT

## Track profiles



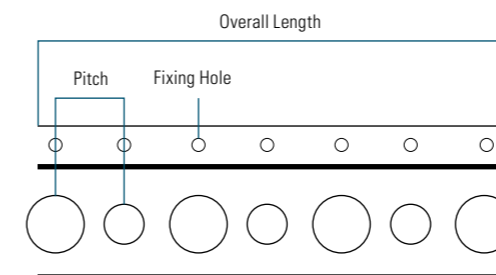
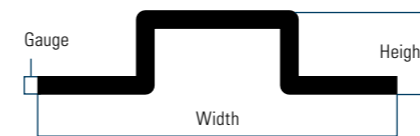
- The ideal addition to box vans, trailers and refrigerated trailers
- Fixes easily and quickly to all surfaces
- SpanSet internal restraint straps and shoring equipment lock into place
- Available in standard lengths or cut to size

### Keep it on track

When using general purpose restraints for load control, this is best done in combination with a track system. This can be installed in any box and trailer. You gain reliable anchor points for your internal restraints and shoring bars. The track provides flexible anchor points for various body types used in general distribution allowing optimum use of load space.

Our track range offers a wide variety of styles and finishes. The apertures can be round keyhole, captive, euro-track, slot/hole combinations and so on. All tracks are made from steel or aluminium with various platings for enhanced corrosion resistance.

**Other track options available – for details visit [www.spanset.co.uk](http://www.spanset.co.uk)**



### Track profiles

| Product code | Length [mm] | Width [mm] | Pitch [mm] | Height [mm] | Gauge [mm] | Fixing [mm] | Weight [kg] | Material     | Styles                             |
|--------------|-------------|------------|------------|-------------|------------|-------------|-------------|--------------|------------------------------------|
| TM12         | 3,050       | 80         | 41         | 15          | 2.5        | 7           | 4.5         | Plated steel | Heavy duty Q track                 |
| TM16A        | 3,660       | 55         | 60         | 10          | 4          | 6           | 3           | Aluminium    | Captive slide                      |
| TH21         | 3,050       | 132        | 51         | 12          | 2.5        | 5           | 7.5         | Plated steel | Universal E slot                   |
| TH23         | 3,050       | 132        | 60         | 12          | 2.5        | 5           | 7.5         | Plated steel | Combination E slot/hole horizontal |
| TH27         | 3,050       | 132        | 41         | 12          | 2.5        | 7           | 7           | Plated steel | Eurotrack                          |



TM 12



TM 16A



TH 21



TH 23



TH 27

## SHORING EQUIPMENT

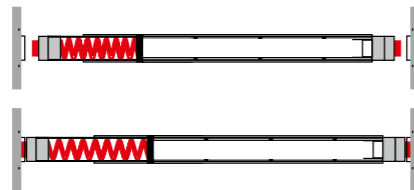
### Shoring bars

- Effective and versatile load control
- Quickly and easily installed or shifted to a new position
- Securely fits on track profiles in standard sized trucks or trailers



#### Fast and convenient

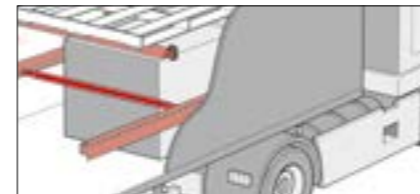
With our range of shoring bars, a basic load control can easily be achieved. The expandable bars fit into any rigid box or trailer with minimal effort. Made from plated steel or lightweight aluminium, they prevent your load from sliding around the cargo area. An extensive array of load blocking arrangements can easily be achieved and is complimented by our range of internal restraint straps to provide you with total control over your load. This means safety from start to finish: the goods don't get damaged, operators won't get injured by loose cargo and the vehicle does not get damaged.



#### Easy adjustment

The adjustable bars can be reduced or lengthened by setting it to one of several possible positions. A pin keeps the bar securely in the chosen length. These bars fit into all standard-sized vans and trailers.

For stepless adjustment choose one of our compressible bars. Our shoring bars are available for ranges up to 2,920 mm. If you need further information on the possible sizes, visit our website [www.spanset.co.uk](http://www.spanset.co.uk) or give us a call.



#### Shoring bars

| Product code | Type | Diameter [mm] | Range [mm]  | Weight [kg] | Material     | Style  |
|--------------|------|---------------|-------------|-------------|--------------|--------|
| SW 3090      | A    | 50 x 50       | 2,000-2,550 | 11.5        | Plated steel | square |
| SW 2029      | B    | 44.5          | 2,000-2,550 | 7.4         | Plated steel | round  |
| FE 1090      | C    | 45 x 45       | 2,000-2,550 | 9.0         | Plated steel | square |
| FE 1029      | D    | 44.5          | 2,000-2,550 | 7.4         | Plated steel | round  |

## SHORING EQUIPMENT

### Garment rails

- For garment distribution to stores
- Ideal for transporting those returned goods, dry cleaning or laundry
- Suitable for use in any box trailer down to the smallest van



#### Garment rails – a perfect fit

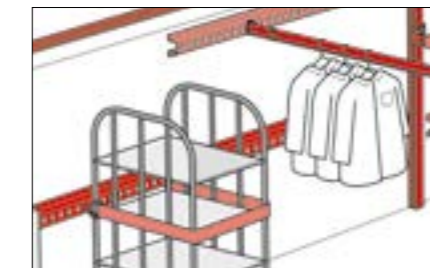
These bars are a simple and versatile solution to transporting hanging garments of all types. Garment hangers are simply suspended along the rails preventing damage or creasing, thus ensuring that your garments arrive in good condition. For extra security, the rails can be equipped with a folding top rail which clamps over the top of the garment hangers to prevent them bouncing off the rail during transit. This is particularly useful for lightweight garments.

SpanSet garment rails can be fitted anywhere along the length of the vehicle body and are quick to install. Spring loaded at one end, they simply lock into position in the track fitted to the vehicle body. The spring tension ensures that they remain securely in position during transit.



Alternative end fittings

The rails are available with a range of end fittings to suit different styles of track. If the vehicle is fitted with GTS panels the rails may be positioned anywhere on the panel to maximise the space utilisation. In combination with track, our garment rails are suited to fit in any box type trailer, down to the smallest van.



#### Garment rails

| Product code | Type | Diameter [mm] | Material     | Options         |
|--------------|------|---------------|--------------|-----------------|
| FE 1378      | E    | 33.7          | Plated steel | -               |
| FE 1378TR    | F    | 33.7          | Plated steel | hinged top rail |



## SHORING EQUIPMENT

### Cups and bulkhead bars

- to build additional bulkhead in box type trailers of any size
- prevents front bulkhead from damage
- an easy way to form additional compartments for more load security
- for use with track systems
- supplied in any desired length (standard size: 2,500 mm)



#### Form-fitting load control and additional vehicle protection

Bulkhead bars are a fast and simple solution to build an additional bulkhead in any box type trailer – regardless of size. When installed behind the front bulkhead, they protect the vehicle front bulkhead from damage by a shifting load. What's more, the cups that hold the bulkhead bars can be installed anywhere along the trailer body. Just fit them on your track system and you gain new possibilities:

- add intermittent bulkheads to form load compartments
- position a part load directly above the axles to stabilise the vehicle

Made from robust plated steel, all bars are used in conjunction with pairs of bulkhead cups. The cups are locked into track, one with a fixed pin and one with a latch. You slide the bar under the pin, drop it into the opposite cup and secure it with the latch – done. When not in use, keep the bars in the appropriate storage brackets.



#### Bulkhead bars and cups

| Product code    | Type            | Track      | Dimensions [mm] | Max width [mm] | Weight max. [kg] | Material     |
|-----------------|-----------------|------------|-----------------|----------------|------------------|--------------|
| <b>FE6040</b>   | Bulkhead bar    | n/a        | 60 x 40         | 2,500          | 15               | Plated steel |
| <b>FE6040L</b>  | Pin cup         | 25 mm hole | 60 x 40         | n/a            | 1.4              | Plated steel |
| <b>FE6040P</b>  | Latch cup       | 25 mm hole | 60 x 40         | n/a            | 1.4              | Plated steel |
| <b>FE6040PE</b> | Pin cup         | E-track    | 60 x 40         | n/a            | 1.4              | Plated steel |
| <b>FE6040LE</b> | Latch cup       | E-track    | 60 x 40         | n/a            | 1.4              | Plated steel |
| <b>FE6000LH</b> | Storage bracket | n/a        | left hand       | n/a            | -                | Plated steel |
| <b>FE6000RH</b> | Storage bracket | n/a        | right hand      | n/a            | -                | Plated steel |

FE6040

## SHORING EQUIPMENT

### Decking beams

- ideal for creating flexible storage compartments
- maximises use of cubic capacity within your trailer
- perfect for double stacking of bulky, lightweight items



#### Maximise your loading capacity

With decking beams you are able to fully utilise the cubic capacity of your box type trailer. To achieve this, track profiles are installed either horizontally along the body of your trailer or vertically at fixed intervals. On the FE4500 vertical track a sliding system is fitted that allows to slide the decking beams effortlessly (shown above) to any desired position and fix it there.

#### With the vertical captive system you can:

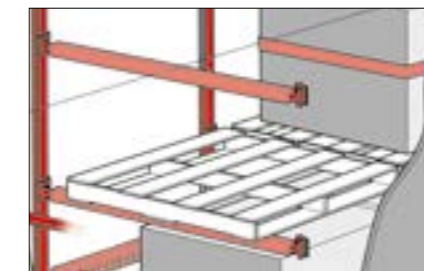
- quickly accommodate different sized goods
- stack large packages or containers in two decks
- form a second deck with pallets
- use the beams to make an artificial bulkhead for securing heavy equipment

When not in use just push the sliding beams up towards the roof and fix them for convenient storage. They are immediately ready for their next use.

#### Horizontal decking beams

The FE8000 is a strong but lightweight aluminium decking beam. It is designed to slot into universal E-track profiles, optionally into GTS track, that run horizontally over the full length of your trailer. The beams can be positioned at any point along the track to form an instant second deck of any length required.

#### Please specify required trailer width for all decking beams when ordering!



#### Decking beams

| Product code      | Type                         | Dimensions [mm] | Max. width [mm] | Weight max. [kg] | Material     |
|-------------------|------------------------------|-----------------|-----------------|------------------|--------------|
| <b>FE 4500</b>    | Captive sliding TM2008 track | 45x45           | 2,470           | 11               | Plated steel |
| <b>FE 8000</b>    | E-track                      | 85x65           | 2,470           | 10               | Aluminium    |
| <b>FE 8000GTS</b> | GTS track                    | 85x65           | 2,470           | 10               | Aluminium    |

FE8000

# 03.5



## Accessories

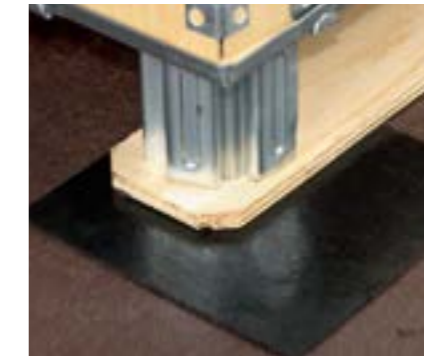
|                                    |       |
|------------------------------------|-------|
| SpanSet Grip                       | 59    |
| Secugrip 95 and Secugrip 30        | 60    |
| Secugrip -G                        | 61    |
| Edge protectors, UWI, LOX and LAWI | 62    |
| Edge Plus                          | 63    |
| Hammock Lashings                   | 64/65 |
| Load Choker                        | 66    |
| Winches                            | 67    |
| Airbags and inflator ratchet bars  | 68    |
| Abrasion protection slip, LSP-SFI  | 69    |
| Lashing Points                     | 70    |
| Captive Wires and Staput           | 71    |
| SideClip ratchet support           | 72    |
| Lashing Force APP                  | 73    |
| Training                           | 74    |
| More from SpanSet                  | 75    |

# 03.5



## ANTI SLIP MATTING

### SpanSet Grip



- Non-standard sizes are available
- Less additional load securing equipment required than without matting

#### If your load starts to slip, load security has failed

Sliding loads are hard to stop, uncontrollable and destructive. SpanSet non-slip matting significantly reduces this source of risk – at a low cost.

#### Increased friction coefficient

No matter what the material combination is between the freight and the vehicle floor, SpanSet Grip non-slip matting will increase the friction. The vital friction coefficient  $\mu$  can easily be enhanced to 0.6 – or even to 0.9, depending on surface pressure and matting type.

#### The right material

High-compression solid rubber with a closed cell structure – this is what makes our non-slip matting so effective. This also means there is no “ball-bearing” effect, where abraded material slides between the load and the matting and thus reduces the effect of friction.

#### Load more efficiently & economically

Less risk of sliding means the following for you: just use as an underlay and you’ll need to use much less other load securing equipment. You’ll therefore load more efficiently and save time and money, particularly as SpanSet Grip can be re-used many times.

#### Only as much as necessary

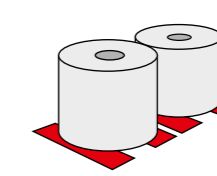
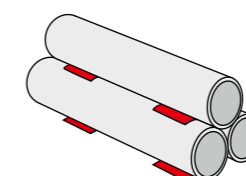
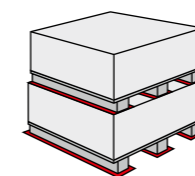
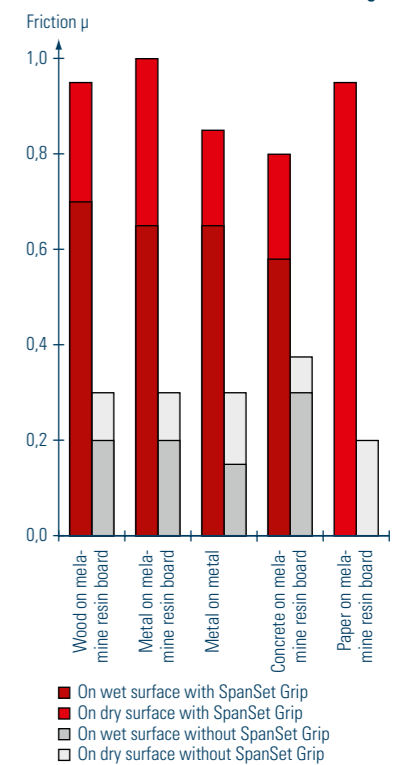
Non-slip matting is particularly efficient because it is only placed where there is contact between cargo and the loading area. In the case of pallets, two narrow strips are enough. Sometimes small areas are sufficient to secure the whole cargo from sliding. For this reason, SpanSet Grip matting is not only available in standard sizes, but can also be cut to the required size. SpanSet Grip is also available in 9.5 mm thickness. Even with heavy compression, this matting does not let things slip.

#### Anti Slip Matting

| Product code                 | Thickness* [mm] | Format* [mm] | Weight [kg] |
|------------------------------|-----------------|--------------|-------------|
| <b>For normal loads</b>      |                 |              |             |
| RH20020                      | 2.0             | 200 × 200    | 0.01        |
| RH20500                      | 2.0             | 5,000 × 266  | 3.18        |
| RH22000                      | 2.0             | 20,000 × 150 | 7.17        |
| <b>Ideal for heavy loads</b> |                 |              |             |
| RH95020                      | 9.5             | 200 × 200    | 0.59        |
| RH95500                      | 9.5             | 5,000 × 266  | 19.50       |

\* Other sizes on request

#### Friction co-efficients based on the 2 mm design



Sample applications for SpanSet Grip

### 03.5 ANTI-SLIP MATTING

#### Secugrip 95 and Secugrip 30

- Secugrip is resistant to acids, caustic solutions and UV light
- Reusable
- DEKRA-certified



### 03.5 ANTI-SLIP MATTING

#### SpanSet Grip-G Granulate matting

- Complies with VDI 2700 et seq.
- Friction value of  $\mu$  0.6 for the common material combinations
- Individual sizes possible



1 secugrip-95 spray coating on wooden beams

#### Secugrip 95 and Secugrip 30

##### Secugrip 95 – spray coating

Load carriers, beams and pallets can be coated with the new secugrip 95 spray coating to create a permanent anti-slip effect. The coloured coating is applied to a thickness of approximately 2 mm. Where necessary, the spraying process can be repeated to increase the coating thickness. With common material combinations, secugrip 95 achieves a friction coefficient of 0.6  $\mu$  and is particularly robust and durable.

##### Secugrip 30 – anti-slip pads

The material composition of the new secugrip 30 was configured for high friction coefficients and designed to bridge uneven spots on the loading area, with a material thickness of 10 mm. TÜV certifies friction coefficients of 0.6  $\mu$  for the common material combinations. The secugrip 30 pads are labelled with the manufacturer's information, which makes it possible to provide evidence of the product characteristics to the authorities.

In order to draw up a specific quotation we require information on the size, condition and material of your load carriers. Do not hesitate to contact us – we will be please to help you!

| Product code | Format [mm] | Thickness [mm] | Weight [kg] |
|--------------|-------------|----------------|-------------|
|--------------|-------------|----------------|-------------|

##### secugrip 30 – cut section

|                 |            |    |     |
|-----------------|------------|----|-----|
| <b>GRIP3002</b> | 200 x 200  | 10 | 0,4 |
| <b>GRIP3012</b> | 1200 x 100 | 10 | 1,4 |
| <b>GRIP3008</b> | 800 x 150  | 10 | 1,4 |

**i** Other sizes on request; Certificates, an enquiry form and further information can be found at [www.spanset.de](http://www.spanset.de).

#### SpanSet Grip-G – granulate matting

The popular anti-slip matting made from granulated rubber is manufactured to a consistently high quality, complies with VDI 2700 et seq. and is universally usable. For the common material combinations, friction values of  $\mu$  0.6 and more are attained and documented by test certificates.

In the manufacturing process, rubber granules of a defined quality and size are bonded together and processed to create anti-slip matting. In addition to the standard cut sizes, customer-specific anti-slip mats can be produced in various sizes and thicknesses.

| Product code | Format [mm] | Thickness [mm] | Weight [kg] |
|--------------|-------------|----------------|-------------|
|--------------|-------------|----------------|-------------|

##### granulate matting – cut section

|                    |              |   |     |
|--------------------|--------------|---|-----|
| <b>RH8-200-200</b> | 200 x 200    | 8 | 0,3 |
| <b>RH8-5000</b>    | 5.000 x 250  | 8 | 8,2 |
| <b>RH8-20000</b>   | 20.000 x 150 | 3 | 7,7 |

**i** Special dimensions available on request; further information at [www.spanset.de](http://www.spanset.de)





## ACCESSORIES

Edge protectors  
UWI, LOX and LAWI

- Protects your loads – and your lashing equipment as well
- Non-standard sizes on request



To prevent your load from transport damage, SpanSet has developed a range of edge protectors for various applications. Intelligent design details make all edge protectors from SpanSet light and easy to use.

### LOX

Made from robust polypropylene, LOX is quick to place in position and fixes the strap so it cannot slip.

With its two prestressed sides, LOX is firmly placed under tension on the load and protects the edges of the load and the webbing against cutting.

### The universal edge protector

The UWI is an especially economical edge protector for everyday applications in the transport sector. It is quick to attach and protects the fabric of the webbing strap from sharp edges and rough surfaces, and the cargo from pressure points caused by the webbing. The UWI is particularly suitable for relieving the strain on the load edge for straight loads where the securing forces are transferred over a large area. In addition, the smooth, polished webbing strap deflector improves the manner in which the securing force is transferred.



UWI edge protector



LOX



LAWI Red



LAWI Black

| Product Code | Name            | For use with max. strap width [mm] | Material    | Dimensions [mm] |
|--------------|-----------------|------------------------------------|-------------|-----------------|
| 1635         | Edge Pro to UWI | 50                                 | PP          | 145 x 145 x 80  |
| SPS032       | LOX             | 35-55                              | PP          | 95 x 95         |
| LAWI1637     | LAWI RED 800    | N/A                                | Extruded PP | 800 x 120 x 80  |
| LAWI1637     | LAWI RED 1200   | N/A                                | Extruded PP | 1200 x 120 x 80 |
| LAWI1637     | LAWI RED 2400   | N/A                                | Extruded PP | 2400 x 120 x 80 |
| LAWI1636     | LAWI BLACK 1200 | N/A                                | Extruded PP | 1200 x 180 x 90 |
| LAWI1636     | LAWI BLACK 2400 | N/A                                | Extruded PP | 2400 x 180 x 90 |



### LAWI

Precast concrete parts and paving stones are more fragile during transportation than you would think – particularly their edges. In addition, each load consists of numerous individual bricks or elements. If a standard edge protector is used, the individual brick beneath it will be moved. This is why our LAWI is the right partner for you:

- Edge protection with ingenious L-profile for optimum pressure distribution
- Rounded shape protects straps and transported goods
- Ideal for palletised goods with fragile edges, such as clinker bricks, sand-lime bricks and concrete slabs
- Rounded edge allows high pre-tensioning forces

Unlike similar products, the LAWI is made from solid materials and can thus also handle large forces. LAWI is therefore ideally equipped for rough, everyday work.

We supply LAWI in two standard sizes, which correspond to standard pallet dimensions. Should you need other sizes, these can be made relatively easily. Talk to us about it.



### Edge protection for the transport of paper rolls

Thanks to a cutout, the innovative Edge Plus (1) protects the delicate edge of the paper roll during transport with lashing straps. The guides for the webbing strap above the edge deflectors that bend inwards and the raised upper strap deflector also take the strain off the delicate edge of the paper roll and distribute the surface pressure over a larger contact area. In this way, pressure points and damage to the paper rolls are effectively avoided. Plastic ribs reinforce the structure of the robust edge protect, which is resistant to frost and cold.

### Simply place in position

The telescopic rod with corresponding positioning device (2) enables easy fitting of the Edge Plus when positioning at higher points is required. The Edge Plus is simply fitted onto the positioning device and then attached at the relevant height using the telescopic pole.

### Tidy load surface

The Edge Plus is designed to be stackable and therefore space-saving. What is more, with the Edge Plus rack (3), your load surface is always tidy. Simply fill the rack, which has space for up to 10 Edge Plus edge protectors, and hang it on the side slat, for example.

- Avoid pressure points on the paper roll
- For lashing systems with webbing straps measuring 50 mm in width
- Accessory for positioning and storage



(1) The Edge Plus



(2) Telescopic rod and positioning device



(3) Edge Plus rack

| Product code | Name                          | Webbing width (mm) | Length x Width x Height (mm) | Weight (kg) |
|--------------|-------------------------------|--------------------|------------------------------|-------------|
| 01629        | Edge Plus edge protector      | 55                 | 200 x 150 x 145              | 0.3         |
| 01632        | Edge Plus telescopic pole     |                    |                              | 0.4         |
| 01633        | Edge Plus positioning adaptor |                    |                              | 0.1         |
| 01643        | Edge Plus rack                |                    | 465 x 220 x 210              | 0.9         |



Loads on heavy good vehicles come in a variety of shapes and sizes and many have their own specific characteristics which make them difficult to secure adequately to the vehicle platform. In some situations a conventional webbing lashing strap is not suitable to secure the load. This may be because the load has fragile edges which would

- Effective restraint system that spreads the tension over a broader area
- GRP reinforced edges
- Avoids damage to vulnerable edges
- Lightweight, less than 3Kg
- Exceptionally tough and durable
- Will not rip through
- Easy to deploy from ground level
- Reduces work at height risks
- Can be used with Ergo pull down ratchets
- Minimises manual handling
- Rolls up after use for space saving stowage
- Breathable fabric, eliminates drag
- LC4000daN, STF 750daN with Ergo ratchet
- Approved to BS EN 12195-2

Typical Applications

- Cladding panels
- Fragile Edges
- Sand/cement in sacks
- Fertiliser
- Agrochemicals
- Aggregates
- Octabins
- Pallet Boxes

be damaged by the load securing straps when under tension such as cladding profiles or because the load combines several units which need to be restrained over a wider area. The hammock lashing offers a complete solution to these situations providing load security without damaging the edge profile of the load.

**Bulkhead Hammock**

- Temporary bulkhead for curtainsider vehicles
- Provides secure forward restraint
- Can be applied anywhere along the trailer
- May be used to secure frontwards or rearwards
- Allows additional pull down restraint
- Multifunctional, can also be used over the load as frictional lashing
- Rolls up after use for easy stowage
- Lightweight, durable and easy to apply
- Ideal for
  - Part loads
  - Multi drop loads
  - Double stacked loads



| Product Code | Dimensions (m) | Tail Lengths (m) | Ratchet Tensioner | Lashing Capacity (daN) | Fixed Length (m) | End Fitting      | Tension Force Indicator |
|--------------|----------------|------------------|-------------------|------------------------|------------------|------------------|-------------------------|
| MHHLA1001B   | 2.6 x 0.8      | 2.0 & 2.0        | 20050 ErgoABS     | 2000                   | 0.4              | Closed Rave Hook | included                |
| MHHLA2001B   | 2.6 x 0.8      | 2.0 & 2.0        | 20060 Ergo        | 2000                   | 0.4              | Closed Rave Hook | included                |
| MHHLA2011B   | 2.6 x 0.8      | 1.2 & 6.0        | 20060 Ergo        | 2000                   | 0.4              | Closed Rave Hook | included                |
| MHHLA3001B   | 2.6 x 0.8      | 2.0 & 2.0        | 20020 HD Short    | 2000                   | 0.4              | Closed Rave Hook | included                |
| MHHLA4001B   | 2.6 x 0.8      | 2.0 & 2.0        | 01857 Econolash   | 2000                   | 0.4              | Closed Rave Hook | included                |
| MHHLA1003B   | 2.8 x 0.8      | 2.0 & 2.0        | 20050 ErgoABS     | 2000                   | 0.4              | Closed Rave Hook | included                |
| MHHLA2003B   | 2.8 x 0.8      | 2.0 & 2.0        | 20060 Ergo        | 2000                   | 0.4              | Closed Rave Hook | included                |
| MHHLA3003B   | 2.8 x 0.8      | 2.0 & 2.0        | 20020 HD Short    | 2000                   | 0.4              | Closed Rave Hook | included                |
| MHHLA4003B   | 2.8 x 0.8      | 2.0 & 2.0        | 01857 Econolash   | 2000                   | 0.4              | Closed Rave Hook | included                |

**Material Specification**

| Description                 | Weight (g/m <sup>2</sup> ) | Tear Strength (N) | Air Permeability (l/m <sup>2</sup> sec) |
|-----------------------------|----------------------------|-------------------|---|
| MEHL001 SpanMesh Heavy Duty | 470                        | 580/600           | 1400                                    |



ABS ratchet 5,000/50



Ergo ABS ratchet 5,000/50



Ergo ratchet 5,000/50



Rave Hook

## ACCESSORIES

### Load Choker

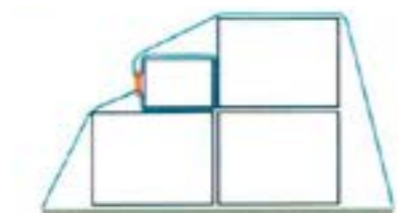


#### LS50 - 50mm Strap Model

Load Capacity 2500kg  
Manufactured and tested to:  
AS/NZS 4380  
EN 12195-2



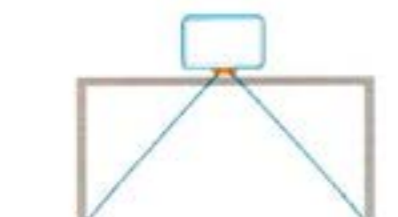
Load Choker is the latest innovation in load restraints. The 2:1 leverage pulls the load together, restricting movement in all directions.



Load Choker restrains loads that are near impossible to secure. Products of differing shapes and sizes can be quickly and effectively restrained with fewer straps or chains.



Top layers can be securely belly wrapped to stop the centre of load shifting forward under braking. There is no need to pyramid the stack, therefore maximizing payloads.



Loads on trade racks and machinery can also be secured faster and safer than conventional methods.



Different size and different shaped products are easily and safely secured with fewer straps or chains saving time and eliminating safety concerns.



#### LC08 - 8mm Chain Model

Load Capacity 4000kg  
Manufactured and tested to:  
AS/NZS 4344  
EN 12195-3

## ACCESSORIES

### Winches



- robust construction
- integral lashing device, always at hand
- fast and efficient load control
- space saving when not in use
- available with winch straps

#### Built-in load control

These versatile winches are bolted or welded to your truck or trailer and cannot be lost. You can quickly apply a tension force with the ratchet and pawl. The tension is securely released with the appropriate latch for unloading. In order to give you a large variety of applications, our quality straps come with different end fittings. When not in use, the lashing straps stow away neatly and are always ready for the next use. All winches are designed to a sturdy construction and are well equipped for daily work and harsh conditions.

#### Additional features:

- Winches are available for use on flatbed trucks, car transporters, rail wagons and flatrack systems.
- Tommy bars and ratchet spanners are also available for tensioning the winches.
- Other winches available on request with capacities up to 10 tonnes MBS.



01827



WN001

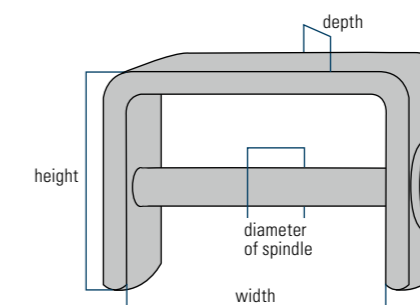


WN004

#### Winch straps

| Product code | Standard length* [m] | Strap width [mm] | LC [daN] | End fitting |
|--------------|----------------------|------------------|----------|-------------|
| WS401        | 8.0                  | 50               | 2,000    | A           |
| WS402        | 10.0                 | 50               | 2,000    | A           |
| WS403        | 8.0                  | 50               | 2,000    | B           |
| WS404        | 10.0                 | 50               | 2,000    | B           |
| WS405        | 10.0                 | 50               | 2,000    | none        |

\* Other lengths available



#### Winches (incl. levers)

| Product code | Height [mm] | Width [mm] | Diameter | Depth | MBS   | Weight [kg] | Strap width [mm] |
|--------------|-------------|------------|----------|-------|-------|-------------|------------------|
| 01827        | 140         | 200        | 50       | 100   | 4,000 | 5,2         | 50               |
| WN001        | 140         | 128        | 50       | 90    | 4,000 | 3,5         | 50               |
| WN004        | 95          | 55         | 25       | 72    | 4,000 | 1,6         | 50               |

A Rave hook **CLRAVE** B Claw hook **01228**



## ACCESSORIES

Airbags and inflator  
Ratchet bars

- Fast and convenient load security
- Protection against impact and tilting over
- For containers, vans and boxed transportation



## ACCESSORIES

Abrasion protection  
sliP, LSP-SF1

- sliP – the patented protective sleeve, reinforced with high-performance fibres
- Light and flexible – can be rolled up together with the webbing
- LSP-SF1 – protective sleeve with thick-walled polyurethane coating for particularly rough areas of application



Airbag

FE8045

Compressed-air inflator gun,  
Product code INFLATOR

### Airbags

Whether on the train, in a van or in containers: Airbags from SpanSet give you a quick and easy form-fit load control. These cushions can readily be inserted in gaps between load units or between loads and side walls. Now fill them up with air – fast and convenient with our handy inflator gun. Thus, your goods are protected against thrusts and jolts caused by the transport. Your load can't fall over and neither goods nor vehicle get damaged.

#### Your benefits:

- highly shock-absorbing
- swiftly installed, quickly removed
- protects loads from toppling over
- resists high compressive stress
- suitable for all form-fitting appliances, e.g. boxed vans or containers

Airbags, single and two-ply with inner PE-shell

| Product code  | Layers | Dimensions [cm] | Max. gap [mm] | Working pressure [bar] | Burst pressure (min.) [bar] | No/pallet | Weight p.u. [kg] |
|---------------|--------|-----------------|---------------|------------------------|-----------------------------|-----------|------------------|
| R2 1P 60x110  | single | 60 × 110        | 25            | 0.1                    | 0.3                         | 500       | 275              |
| R2 2P 60x110  | multi  | 60 × 110        | 25            | 0.3                    | 0.9                         | 350       | 240              |
| R2 1P 80x120  | single | 80 × 120        | 35            | 0.1                    | 0.3                         | 400       | 320              |
| R2 2P 80x120  | multi  | 80 × 120        | 35            | 0.3                    | 0.9                         | 300       | 260              |
| R2 1P 80x185  | single | 80 × 185        | 35            | 0.1                    | 0.3                         | 250       | 300              |
| R2 2P 80x185  | multi  | 80 × 185        | 35            | 0.3                    | 0.9                         | 180       | 260              |
| R2 1P 100x120 | single | 100 × 120       | 45            | 0.1                    | 0.3                         | 300       | 290              |
| R2 2P 100x120 | multi  | 100 × 120       | 45            | 0.3                    | 0.9                         | 200       | 240              |
| R2 1P 100x185 | single | 100 × 185       | 45            | 0.1                    | 0.3                         | 220       | 305              |
| R2 2P 100x185 | multi  | 100 × 185       | 45            | 0.3                    | 0.9                         | 150       | 270              |
| R2 1P 100x200 | single | 100 × 200       | 45            | 0.1                    | 0.3                         | 220       | 360              |
| R2 2P 100x200 | multi  | 100 × 200       | 45            | 0.3                    | 0.9                         | 150       | 310              |

### Ratchet bars

| Product code | Type           | Diameter [mm] | Range [mm] | Weight [kg] | Material  |
|--------------|----------------|---------------|------------|-------------|-----------|
| FE 8045      | Ratchet action | 38            | 2200-2630  | 4.7         | Aluminium |



### Ratchet bars

These expanding ratchet bars are an ideal solution to the problem of unstable loads falling from behind container doors. With the ratchet bars in place the container or trailer doors can be opened safely without the risk of the load falling out and causing injury.

The bars are quick and easy to install, simply extend the bar to the container walls and then operate the ratchet to tension against the sidewalls. Each end of the bar is fitted with a rubber foot which grips the side of the container.

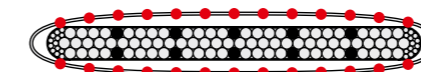
- For use in containers or light commercial vehicles without load restraint track
- May be used horizontally or vertically
- For body widths from 2.2 m to 2.6 m

### sliP protective sleeve

Friction, coarse edges, high lashing capacity - your webbing is affected by these enormous stresses every day. The new sliP (slide protection) protective sleeve permanently protects your lashing straps.

The patented sliPs can be recognized immediately by their striking black and white weave. This also has a dual function: The weave ribs, which run all the way around, are made from high-performance fibres on the inside, which help the webbing slide. On the outside, the interweaving means that the strap is highly resistant to wear on both sides. This gives you ideal sliding behaviour on all lashing angles and good force transfer when using frictional lashings.

With these properties, sliP out-performs standard PVC and PU protective sleeves. This has been proven many times in intensive tests. As we only weave in the high-performance fibre material where it is needed, sliPs are also very attractively priced.



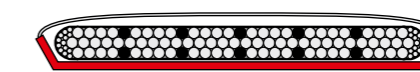
#### SpanSet sliP

| Product code | For use on strap widths up to [mm] | Length [mm] |
|--------------|------------------------------------|-------------|
| SLIP35       | 35                                 | 250         |
| SLIP50       | 50                                 | 250         |

### LSP-SF1 protective sleeve

This protective sleeve has an additional robust polyurethane coating on one side, which cushions even the hardest edges. The polyurethane side is placed against the goods and protects the lashing strap from abrasion and damage. The LSP-SF1 remains on the strap and is simply rolled up with it. You can thus effectively protect webbing up to 75 mm wide from wear and cuts.

The LSP-SF1 has proven itself to be particularly useful for use in transporting precast concrete parts, steel or metal components or similar sharp-edged goods.



#### SpanSet protective sleeve LSP-SF1

| Product code | For use on strap widths up to [mm] | Standard length* [mm] |
|--------------|------------------------------------|-----------------------|
| LSP-SF1 25   | 25                                 | 250                   |
| LSP-SF1 35   | 35                                 | 250                   |
| LSP-SF1 50   | 50                                 | 250                   |
| LSP-SF1 75   | 75                                 | 250                   |

\* Other lengths available



## ACCESSORIES

### Lashing points

- Available bolt on or weld on types
- Suitable for use with different trailer types
- Range of lashing capacities available
- Manufactured to BSEN 12640



## ACCESSORIES

### Captive wires Staput

- Captive Wires for secure storage of lashing straps
- Staputs provide additional load security for wheeled trollies or cages



Type D



Type C



Type B



Type A

Lashing points form an integral part of the load control arrangements for any commercial vehicle body. All load platforms should be fitted with suitable lashing points. With SpanSet you can install your lashing points to enable a flexible approach to load security so that the platform can be adapted to different types of lashing arrangements. The minimum requirements for lashing points are described in BS EN 12640.

Curtainsider vehicles should also be fitted with a suitable arrangement of lashing points to enable the load to be secured to the platform within the curtain. A continuous

lashing bar or rave rail can be used but this must be sufficiently strong to take the load incurred from the lashing without deflection. This type of continuous bar is not suitable for use with direct lashing arrangements.

SpanSet provide a range of different lashing points to equip your vehicle to give you the security of having the most effective load restraint. Different types of lashing points are available with lashing capacities from 800daN to 150kN and meeting the requirements of BS EN 12640.

#### Lashing points

| Product Code | Type | Dimensions [mm] | Ring diameter [mm] | Weight [kg] | Features                  | Lashing capacity [daN] | Material     |
|--------------|------|-----------------|--------------------|-------------|---------------------------|------------------------|--------------|
| LP80610      | A    | 90 x 95         | 50                 | 0.9         | flush fitting             | 1225                   | forged steel |
| P1808        | B    | 105 x 105       | 68                 | 0.5         | lightweight flush fitting | 400                    | plated steel |
| WLP031       | C    | 66 x 79         | 38                 | 0.4         | weldable                  | 3000                   | forged steel |
| WLP051       | C    | 77 x 91         | 45                 | 0.6         | weldable                  | 5000                   | forged steel |
| WLP081       | C    | 87 x 102        | 51                 | 0.9         | weldable                  | 8000                   | forged steel |
| WLP131       | D    | 115 x 141       | 67                 | 2.2         | weldable                  | 13400                  | forged steel |
| WLP201       | D    | 129 x 157       | 67                 | 3.3         | weldable                  | 20000                  | forged steel |
| XOPSTR0112   | D    | 50 x 85         | 40                 | 0.5         | 360 degree swivel         | 2000                   | forged steel |
| XOPSTR0116   | D    | 50 x 85         | 38                 | 0.5         | 360 degree swivel         | 3000                   | forged steel |
| XOPSTR0120   | D    | 68 x 111        | 54                 | 1.3         | 360 degree swivel         | 5000                   | forged steel |

#### Captive Wire System

The complete solution for ensuring that you will always have your whole complement of lashing straps available in the trailer. The Captive Wire System can be fitted to the inside wall of any length of box trailer to keep your lashings straps secure and tidy. You just put the end fitting on the wire to secure your lashing straps. With the straps hanging neatly on the side walls they always within reach for the next use.

#### Your benefits:

- Prevents the loss of straps from within the trailer
- Helps to prevent damage to lashing straps
- Keeps the trailer deck free of obstructions
- Straps can be replaced as required

#### Staput

Retail goods, food and mail distribution, for example, frequently use wheeled trollies or cages to transport the goods and speed up the loading and unloading process into the trailers. The Staput is a simple device that is used with wheeled trollies to improve their load security and safe handling.

A Staput strip is simply placed on the trailer deck behind the wheels of the loaded trolley. Its profile provides a means of chocking the wheels and eliminating any excessive movement during transit.

Staputs are also used to assist with the loading and unloading of trollies when the trailer is on an incline. The Staput controls the hazard of loose trollies moving along the trailer deck which can cause damage to the vehicle or load and is a safety consideration for the loading personnel.

#### Important note:

Staputs should always be used in conjunction with a suitable lashing strap to provide adequate load restraint for the trollies.

#### Captive wire system / Staput

| Product code  | Type                    | Length [m] | Weight [kg] | Material        |
|---------------|-------------------------|------------|-------------|-----------------|
| RETENTION KIT | Captive wire & brackets | max. 13.0  | -           | Galvanised wire |
| STAPUT 1.0    | Wheel chock             | 1.0        | 0.6         | Rubber          |
| STAPUT 0.8    | Wheel chock             | 0.8        | 0.5         | Rubber          |

## ACCESSORIES

### SideClip ratchet support

- The cargo is protected from the tensioning device, for example to avoid paint damage
- Quick to attach and remove for efficient use
- Robust material for long service lives



## ACCESSORIES

### Lashing force app

- Calculation in line with the guidelines of VDI 2700 et seq. and DIN EN 12195
- A useful tool based on the tried-and-tested SpanSet lashing force controller
- For Android and iOS



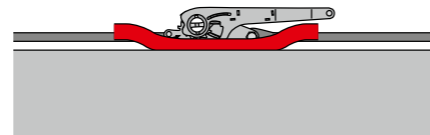
### Ratchet support

#### Reliable protection for the ratchet

With the practical ratchet support, you can protect your cargo from pressure applied by the ratchet devices in contact with the cargo.

Movement during transport may result in marks, particularly on painted or polished surfaces. With the ratchet support made from robust polyethylene, you can prevent this in a simple and effective manner.

The ratchet support is easy to thread onto the ratchet in question and cannot slip during transport.



| Product code | Length x Width [mm] | Usable strap width [mm] |
|--------------|---------------------|-------------------------|
| D000195      | 170 x 90            | 35                      |
| D000196      | 205 x 96            | 50                      |
| D000197      | 295 x 125           | 75                      |

### How calculations for lashing straps become child's play

The useful app, based on the tried-and-tested SpanSet lashing force controller, provides a clear and easily-comprehensible user interface that makes calculating the lashing straps required child's play. Using the app, by moving the sliders or entering the dynamic friction coefficients, angle of inclination and pre-tensioning forces directly, as well as inputting the acceleration in the direction of travel and the K-factor, it is possible to display the number of lashing straps required for the specific pre-tensioning force (STF) directly, in just a few steps.

For the angle of inclination, there is even the option of calculating the angle or having it displayed using the level sensors in your smartphone. Calculation of the load control values takes place either in line with the guidelines of VDI 2700 et seq. and/or DIN EN 12195, as you choose. The additional option of documenting the load distribution plan means the lashing force calculator embodies mobile added value in the field of load control.

- Input of dynamic friction coefficients, angle of inclination, pre-tensioning forces
- And of the acceleration in the direction of travel and the K-factor
- Languages: German, English, Dutch, Italian, Portuguese, Spanish
- Easily-comprehensible user interface
- Documentation of the load distribution plan
- Calculation possible in line with the old and new versions of DIN EN 12195



### Install now free of charge!

The free lashing force app is available to download under Google Play in the App Store.



### SideClip

The SideClip is a useful aid in load control when it is a matter of securing smaller cargo units. The loops of the tensioning devices are inserted into the SideClip. The clip can then simply be attached in any location on the vehicle wall and side slats, using the wall clamps. The SideClip is designed for a loading capacity of 200 daN when the strap is passed around the load, and can be used for webbing straps measuring 50 mm in width.

| Product code | Name     | For webbing straps [mm] | Weight [kg] |
|--------------|----------|-------------------------|-------------|
| D056333      | SideClip | 50                      | 0,5         |

# TRAINING

## Load Restraint Courses



### Load Restraint Course for Road Transport Vehicles

The course is designed to provide an overview and understanding of safe load control practices for road transport plus an overview of the current European standards on load restraint.

## TRAINING COURSES

### Load Restraint

| Title                                    | Order Code |
|--|------------|
| Load Restraint Appreciation & Inspection | LR1        |

### Height Safety for Industry

| Title   | Order Code |
|---|------------|
| Height Safety Equipment Appreciation and Inspection         | HS1        |
| Practical Use of Personal Fall Protection Equipment         | HS2        |
| Occasional Industrial Climber                               | HS3        |
| Advanced Industrial Climber                                 | HS4        |
| GOTCHA Kit Rescue Training                                  | HS5A       |
| SHARK Rescue Training                                       | HS5B       |
| CRD Kit Rescue Training                                     | HS5C       |
| GOTCHA POLE TOP Rescue Training                             | HS5D       |
| Rooftop Safety / Work Restraint                             | HS6        |
| Competent Person Practical Inspection and Record Keeping    | HS7        |
| Radio Frequency Awareness, Safety in Radio Frequency Fields | HS8        |
| Management of Work at Height                                | HS9        |
| Access, Egress and Rescue from a Confined Space             | HS10       |

### Work at Height on Vehicles

| Title   | Order Code |
|---|------------|
| Vehicle Mounted Work Restraint System - Operator Training | STOPPA     |
| Vehicle Mounted Fall Arrest System - Operator Training    | CAPCHA     |
| Load Restraint For Road Transport Vehicles                | LR1        |

### Industrial Rope Access

| Title  | Order Code |
|--|------------|
| IRATA Level 1 – Rope Access Technician             | IRATA 1    |
| IRATA Level 2 – Experienced Rope Access Technician | IRATA 2    |
| IRATA Level 3 – Rope Access Supervisor             | IRATA 3    |

### Safe Lifting & Rigging

| Title   | Order Code |
|---|------------|
| Safe Slings & Lifting Appreciation                        | SL1        |
| Practical Slings and Lifting                              | SL2        |
| Rigging and Lifting for Workers at Height                 | SL3        |
| Lifting Equipment – Practical Inspection & Record Keeping | SL4        |

### Police Height Safety Training

| Title  | Order Code |
|--|------------|
| Introduction to Height Safety and Equipment Awareness                        | PHS1       |
| Height Safety for Operations on Rooftops, Structures and Steep Ground        | PHS2       |
| Rescue and Recovery for Officers Operating at Height                         | PHS3       |
| Practical Training for Operations at Height. Safe – Access – Egress – Rescue | PHS4       |
| SARA (Search and Rope Access) Operative                                      | SARAOP     |
| SARA (search and Rope Access) Supervisor                                     | SARASUP    |

### Height Safety For Rescue Courses for the Emergency Services

| Title  | Order Code |
|--|------------|
| An introduction to personal safety at height and equipment awareness | HSR1       |
| Basic height safety/practical application – Rooftops and Structures  | HSR2       |
| FR Kit user  | HSR3       |
| FR Kit instructor  | HSR4       |
| Line rescue operative  | LROP       |
| Line rescue supervisor   | LRSUP      |

**To book a course contact the training department on +44 (0) 1606 738529. or book online [www.cbs-spanset.co.uk](http://www.cbs-spanset.co.uk)**