

# PFEIFER

## More than Lifting.



10/2017

## Lifting and Turning Devices

**PFEIFER**  
**SEIL- UND HEBE TECHNIK**  
**GMBH**

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## Higher safety and efficiency with lifting devices made by PFEIFER

### Highest safety standards

Our products comply with highest safety standards as we strictly adhere to valid laws and regulations. We check every device individually for EC conformity and establish an individual operating manual. Moreover, device acceptance before delivery is a matter of course for us.

### Qualified production

We dispose of experience for decades in the production of welded and highly durable lifting devices. Our rich experience is also supplemented by the welding certificate EN 1090-EXC3. Our welders are also tested acc. to EN DIN 287. We only process sheets with 3.1 B certificates.

### Made in Germany

Our products are developed and manufactured at 100% in our headquarters in Memmingen – by qualified staff with highest quality standards.



**Gerhard Pfeifer,**  
CEO of the PFEIFER Group



The PFEIFER Group is one of the leading companies for wire ropes, anchoring and lifting systems as well as cable structures and rockfall protection in Europe. The headquarters are located in Memmingen, Germany and distributes through several service centres and subsidiaries in Europe, North America and Asia.



## More than 40 years of experience

For decades, we have been occupied with lifting and transporting goods. Our competences in the area of lifting devices are:

- advice
- development
- manufacture
- testing
- repair

## More than lifting

We unlock potentials lying dormant in lifting devices. We do not only develop products, but also integrate them into your internal transport procedures.

We combine latest technology with well-tried practice and thus create devices which are able for more – more efficiency at work and more safety for the operator.



PFEIFER

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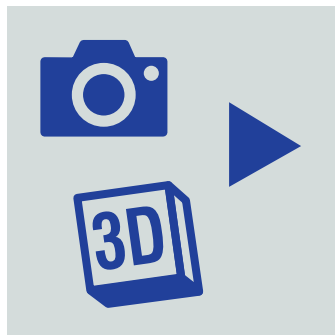
## The PFEIFER product centre

**new!**



### User-friendly concept – quick and easy

Thanks to the clear navigation, the products can be found quickly and easily – if needed, the high-performance search can support.



### Extensive picture area – impressive and varied

With only one click the website visitor can change between picture galleries, interactive 3D models and application videos.



### All information on the product – compact and clear

At the product itself, the full and detailed information are displayed compactly and clearly by tabs: dimensional drawings, technical data, downloads etc.



### New design – modern and dynamic

All information is also available on mobile devices and is perfectly displayed in each screen size and resolution due to responsive web design.



**Experience lifting and turning devices by PFEIFER in a new way under**

→ [www.pfeifer.info/lift-and-turn](http://www.pfeifer.info/lift-and-turn)

# Coil grabs – Our strength!



## Telescope coil grab

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## Telescope coil inner grab

Page 10



## Wire coil grab

Page 12

Since 1975, we have manufactured more than 1,200 telescope coil grabs and more than 700 wire coil grabs. They were distributed on five continents. More than 40 years of experience have been woven into their design and application. The result: coil grabs with safety standards and knowhow of tomorrow.



Further information on PFEIFER  
coil grabs can be found under

→ [www.pfeifer.info/coil-grabs](http://www.pfeifer.info/coil-grabs)

# Telescope coil grabs

## Product benefits

Telescope coil grabs for safe and gentle transport of tied steel coils in horizontal axis or other rotational hollow bodies.

- + The new generation of coil grabs**  
latest technology in the practical standard modular design or customised production!
- + Sturdy**  
robust body in chest design as well as welded grab legs with integrated electricity.
- + Safe**  
mechanical load safety device and extra large cut-off relays.
- + Economic**  
low effort and cost for maintenance.
- + Integrated load cycle meter**  
as an assistant to determine the service life as well as to support in service and maintenance jobs.



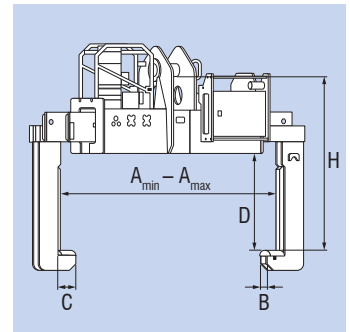
## Standard design

- **Gear system**  
Rotating roller chain
- **Safety equipment**  
Mechanical load safety device  
Extra large cut-off relays  
LED signal lamps
- **Suspension**  
Suspension by sliding bolt suitable for single hooks acc. to DIN 15401. Adaption to your crane hook number!
- **Operation**  
By existing crane control
- **Supply**  
Completely wired with electrical control in the switch box and with plug for the connection to your crane facilities.  
Incl. integrated load cycle meter.

**Available in three sizes!**  
Size 1: up to 24 to – Size 2: 25 up to 35 to – Size 3: 35 up to 50 to

## Product variants

SWL to	Gripping range $A_{\min}$ mm	Opening width $A_{\max}$ mm	Inner height D mm	Reference no.
24	500	1900	850	270264
24	300	1700	850	270265
35	500	2100	950	270266
35	500	2100	1100	270267
35	300	1800	950	270268
35	300	1800	1100	270269
50	500	2200	950	270270
50	500	2200	1400	270271
50	300	1900	950	270272
50	300	1900	1400	270273



Coil grabs

### Useful information on the load

- **Protect sensitive loads!** – Stainless steel or aluminium coils are very sensitive. A protective plastic coating can be applied to the insides of the gripping arms to protect the cut edges or the prongs can be fitted with exchangeable supports made of steel or plastic.
- **The coil – how it needs to be:** strapped and its front faces must be flat and without projections (no so called “funnelling”)!



### Useful information on the crane

- **The crane also has to lift the coil grab!** – This means that the load capacity of the crane is reduced by the dead weight of the Coil grab. No 25 ton crane can use a 25 ton Coil grab under full load!
- **The size of the suspension must be compatible with the crane hook!** – The suspension, whether it's a lug, ring or bolt, must be adapted to the size of the crane hook. Crane hooks that are too small slide in the suspension and the coil grab starts to swing. If the crane hook is too large, the suspension rests on the point of the crane hook – and this is not permissible. The suspension must move freely but hang stably in the crane hook.
- **Two sets of crane data – nothing works without these!**  
The crane classification and its lifting speed can be important factors for the design of the lifting device if it is used frequently.





## Additional options



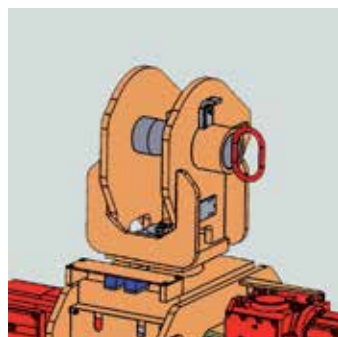
### Blocking system

Patented, self-locking total gear system. Prevents unintentional opening of the grab in case of inclination or collisions.



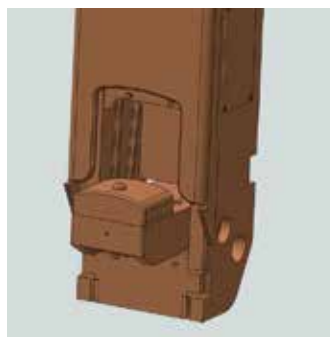
### Spindle drive system

Grab leg drive by self-locking trapezoidal spindle drive. Safe protection against unintentional opening of the grab in case of inclinations or collisions.



### Slewing gear

Integrated slewing gear for the exact positioning of the grab. With slewing limitation or endless slewing gear.



### Foldable pads

For lifting tightly stacked coils and narrow spaces. With integrated search for coil eye by light barriers.



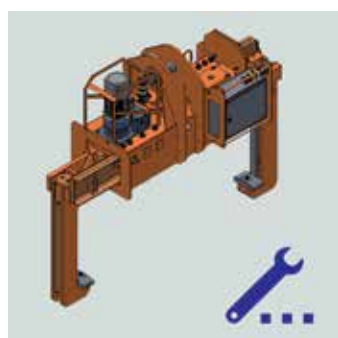
### Search for coil eye

Search for coil eye via light barriers. Enables exact positioning of the grab to the coil eye.



### Stand

With ladder, maintenance platform and option for fixture on the factory floor. For safe storage of the grab when not used or for maintenance works.



### Manufacture also according to customer's requests

Cut-off by light sensors, protection at the inner sides of the grab legs, integrated weighing system for determination of coil weight, suspension for twin hooks etc. Just ask us!



## Custom-made solutions

### Your transport – your lifting device!

If our standard modular system is not enough, we make it fit – specially tailored to your specified requirements.

- 1 Telescope coil grab with double-hook suspension**  
Integrated slewing gear. Carrying capacity 32,000 kgs.
- 2 Telescope coil grab with blocking system**  
Carrying capacity 32,000 kgs.
- 3 Telescope coil grab for cable reels**  
Carrying capacity 14,000 kgs.
- 4 Telescope coil grab with slewing gear**  
Integrated slewing gear for positioning the load, with slewing range limitation. Carrying capacity 35,000 kgs.
- 5 Telescope coil grab for large pipes**  
Maximum opening range 5,000 mm, with spindle drive system. Carrying capacity 60,000 kgs.



# Telescope coil inner grabs

## Product benefits

Telescope coil inner grabs for safe and protective transport of bundled steel coils or other rotational hollow bodies in vertical axis. Especially suitable for horizontally positioned stacked slit strips.

- + The right one for slit strips**  
transport stacked slit strips without pallets fast and safely.
- + Sturdy**  
long-proven in chest-design welding shape for rough, continuous operation and large number of load cycles.
- + Safe**  
mechanical load safety device and cut-off relays.
- + Economic**  
low effort and cost for maintenance.
- + Integrated load cycle meter**  
as an assistant to determine the service life as well as to support in service and maintenance jobs.



## Standard design

- **Gear system**  
Rotating roller chain
- **Safety equipment**  
Mechanical load safety device  
Cut-off relays  
LED signal lamps
- **Suspension**  
Suspension by sliding bolt suitable for single hook acc. to DIN 15401. Adaption to your crane hook number!
- **Operation**  
By existing crane control
- **Supply**  
Completely wired with electrical control in the switch box and with plug for the connection to your crane facilities. Incl. integrated load cycle meter.

**Stand – a must-have!**

Lifting devices must be set down and stored safely and securely according to DIN EN 13155 and DGV 100-500 (formerly BGR 500). → see our additional options

## Additional options



### Blocking system

Patented, self-locking total gear system. Prevents unintentional opening of the grab in case of inclination or collisions.



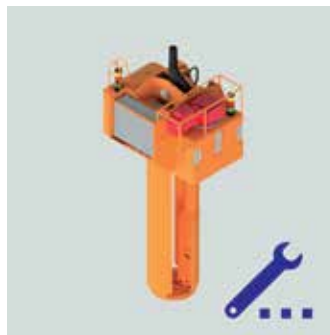
### Spindle drive system

Grab leg drive by self-locking trapezoidal spindle drive. Safe protection against unintentional opening of the grab in case of inclinations or collisions.



### Stand

With ladder, maintenance platform and option for fixture on the factory floor. For safe storage of the grab when not used or for maintenance works.



### Manufacture also according to customer's requests

Cut-off by light sensors, protection at the inner sides of the grab legs, integrated weighing system for determination of coil weight, suspension for twin hooks etc. Just ask us!

### Useful information on this lifting device

- **Already inspected?** – As an expert manufacturing company, we perform the inspection before the initial commissioning for you at our factory. Lifting devices must be checked by a technical expert at intervals not exceeding one year. For operations at high levels of demand, the technical expert must shorten the inspection intervals accordingly.
- **Heat and cold?** – In principle, all of our lifting devices can be used at temperatures of -20° to +65° C. They can be used in hotter and colder temperatures but we need you to give us the exact load temperature and the time spent on the lifting device. Hot loads or the use of the device in foundries are usually not a problem with the right material and an optimised design providing heat protection!
- **Stand – a must-have!** Lifting devices must be set down and stored safely and securely according to DIN EN 13155 and DGUV 100-500 (formerly BGR 500). If you do not want to be responsible for fulfilling this requirement yourself, you will also find stands in our range that can also be combined with a maintenance platform for electrically powered devices for the safe and secure storage of the lifting device when it is not in use.





# Wire coil grabs

## Product benefits

Wire coil grabs for safe and protective transport of inherent, bundled wire coils and concrete steel rings in vertical axis.

### + Two that convince!

Two standard designs for the coil weights and internal diameters available on the market ensure efficient and simple working in rough operation at wire rod manufacturers and iron bending companies.

### + New definition of safe lifting

Linearly guided gripping legs and the generous immersion depth of the 5-ton version forgive out-of-centre-setting down on the ring and ensure centring before the cams grip. Both versions load-locking with automatic hold-open device.

### + Highest efficiency

Innovative turnable gripping cams in the 5-ton version can enlarge the gripping range from 500–800 mm to 650–950 mm by easy rotating  
→ largest gripping range on the market.

### + Solid

Sturdy lever design with changeable gripping cams from highly wear-resistant special construction steel.



## Standard design

### ■ Way of load picking up

Gripping cams in prong design – exchangeable!

### ■ Safety equipment

Load-locking with automatic hold-open device: Lifting or lowering the crane hook opens or closes the wire coil grab. Hold-open device fixes wire coil grab in max. opened position.

### ■ Suspension

Suspension suitable for single crane hooks acc. to DIN 15401.

### ■ Supply

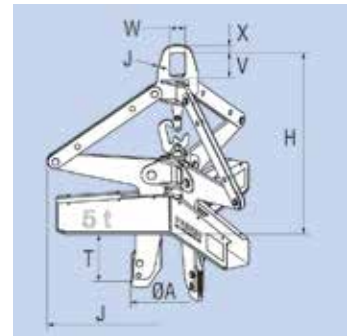
Completely assembled ready for operation.





## Product variants

SWL kg	Gripping range $A_{\min}$ mm	Gripping range $A_{\max}$ mm	Gripping depth T mm	Construction height open $H_{\min}$ mm	Construction height closed $H_{\max}$ mm	Reference no.
3000	550	700	230	640	960	252265
5000	500	950	950	1000	1450	278608



Coil grabs

### With us you are on the safe side ...



- We do not only stand out due to consistently keeping to the valid machinery directive, but in addition, we also fulfil the suitable standards for all our products.
- We check every device individually for CE conformity and establish an individual operating manual. Moreover, device acceptance before delivery is a matter of course for us.
- In our production, we dispose of all the necessary approvals and welding certificates, such as the welding certificate acc. to EN 1090 – EXC 3. With us, you are on the safe side ...



## PFEIFER Standard programme lifting technology



### Our high-performance standard portfolio for efficient load handling

- **PFEIFER lifting clamps** gripping into the material or transport gently, lift or turn girders or sheets, come up to hardest conditions of usage – with safety, with experience, by PFEIFER.
- Safe and efficient lifting of rails and rounds of the most various kinds – **PFEIFER grabs** offer a good solution for any kind of operation.
- **PFEIFER drum handling** devices have proven over many years and are suitable for all common applications.
- Divergent loads require versatile spreader beams. A clever modular system makes **PFEIFER spreader beams** suitable for you - and your load!



Curious?  
Order your  
free brochure via  
→ [verkauf-lt@pfeifer.de](mailto:verkauf-lt@pfeifer.de)

# Sheet handling – more than just a grab!



## Telescope sheet lifter

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## Parallelogram sheet lifter

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## Blank grab

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## Fork lifter for stacks

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Fast and safe handling of everything to be transported in stacks: sheets and metal blanks – bundled or loosely stacked – narrowly stocked or without pallets! PFEIFER load lifting devices can master this and even more!

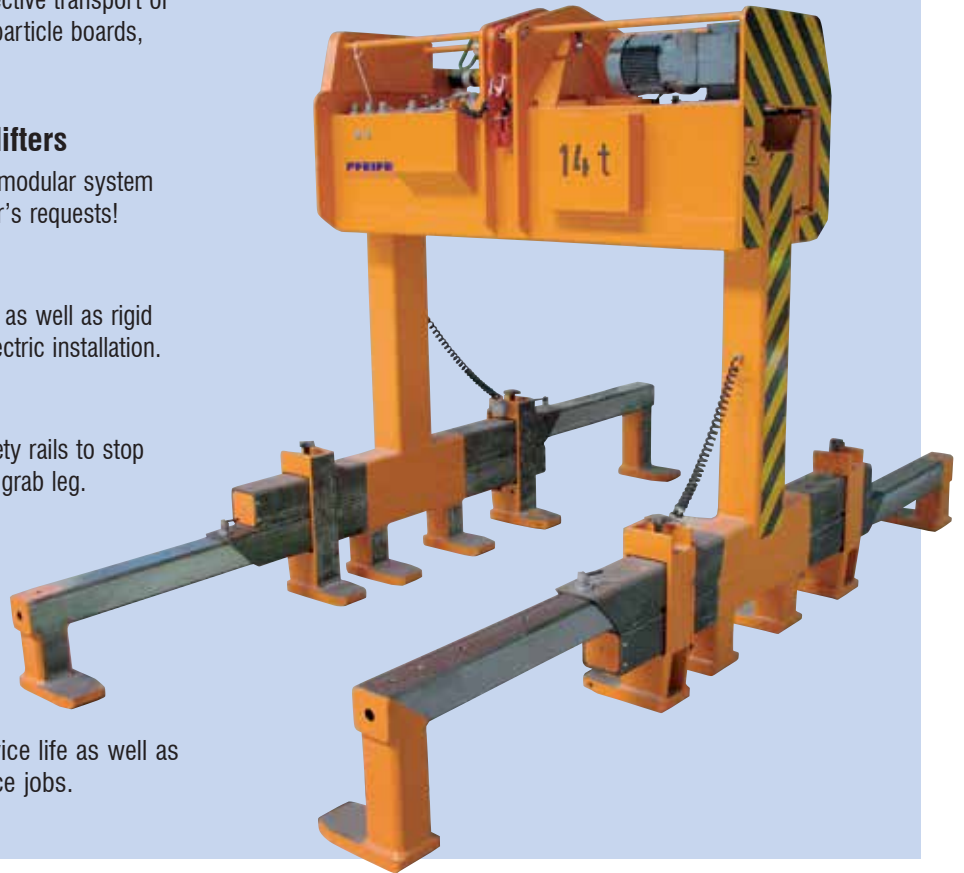
A more of safety and flexibility for stack handling by perfectly designed grab and forklifter variations – planned with experience, welded with quality and above all, conceived for hard continuous operation!

# Telescope sheet lifter

## Product benefits

Telescope sheet lifters for the safe and protective transport of tied goods in stacks such as sheet stacks, particle boards, pallets or similar loads.

- + The new generation of sheet lifters**  
latest technology in practical standard modular system and also manufacture acc. to customer's requests!
- + Robust**  
sturdy housing in chest-section design as well as rigid or adjustable grab legs with internal electric installation.
- + Safe**  
mechanical load safety device and safety rails to stop the grab leg movement at one pad per grab leg.
- + Efficient**  
tried and tested gear concepts for low-maintenance and trouble-free operation.
- + Integrated load cycle meter**  
as an assistant to determine the service life as well as to support in service and maintenance jobs.



## Standard design

- **Gear system**  
Rotating roller chain
- **Design grab leg**  
Four rigid pads per grab leg
- **Safety equipment**  
Mechanical load safety device  
LED signal lamps  
Light sensors for cutoff of grab leg drive
- **Suspension**  
Suspension by sliding bolt suitable for single hook acc. to DIN 15401. Adaption to your crane hook number!
- **Operation**  
By existing crane control
- **Supply**  
Completely wired with electrical control in the switch box and with plug for the connection to your crane facilities. Incl. integrated load cycle meter.

**For tough heavy-duty operation ...**  
We develop grabs, which are always designed for the respective operating conditions: If necessary protected against corrosion, heat, dust and moisture!

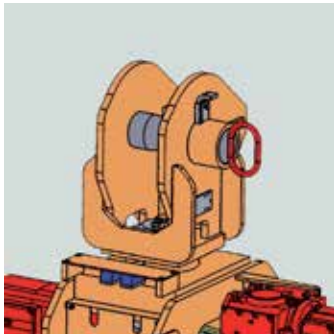


## Additional options



### Blocking system

Patented, self-locking total gear system. Prevents unintentional opening of the grab in case of inclination or collisions.



### Slewing gear

Integrated slewing gear for the exact positioning of the grab. With slewing limitation or endless slewing gear.



### Manually telescopic pads

Pads manually telescopic for different sheet sizes, locking by a spring stop bolt.



### Spindle drive system

Grab leg drive by self-locking trapezoidal spindle drive. Safe protection against unintentional opening of the grab in case of inclinations or collisions.



### Telescopic pads driven by an electric motor

Pads telescopic by electric motor for different sheet sizes.



### Manufacture also according to customer's requests

Cutoff by light sensors, protection at the inner sides of the grab legs, integrated weighing system for determination of sheet weight, suspension for twin hooks etc. Just ask us!



### Design – two important differences!

Your lifting device should be in use for a long time! It is therefore important to estimate the number of load changes per day so that we can choose the right calculation basis for your lifting device because the service life is based on the number of load changes for which a maximum has been calculated.

A differentiation is made in two areas:

- We calculate up to 20,000 load changes according to EN 13155
- and over 20,000 load changes according to EN 13001.

The EN 13001 also takes dynamic loading into account, which means that crane data such as its classification or the lifting speed are essential for the calculation of the lifting device.

### Example with 50 load changes per day:

250 working days x 50 LC/Day = 12.500 load changes/year

$$\frac{20.000 \text{ load changes}}{12.500 \text{ LC per year}} = 1,6 \text{ year service life}$$

$$\frac{100.000 \text{ load changes}}{12.500 \text{ LC per year}} = 8 \text{ year service life}$$

## Custom-made solutions

### Your transport – your lifting device!

If our standard modular system is not enough, we make it fit – specially tailored to your specified requirements.

- 1 Telescope sheet lifter with swivelling pads**  
With swivelling pads activated by an electrical motor, manually adjustable. Load safety device by two-hand control. Fixed attachment. Carrying capacity 8,000 kgs.
- 2 Telescope sheet lifter with slewing gear**  
Slewing range 180°, two pads are electrically and two pads are manually telescopic, two-crane suspension. Carrying capacity 4,000 kgs.
- 3 Telescope sheet lifter with spindle drive system**  
Gripping arms and outer pads electrically adjustable by spindle drive system. Slewing gear, suspension for two-crane operation, screwable wear plates at the inner side of the grab legs, lubricators with status display. Carrying capacity 7,500 kgs.
- 4 Telescope sheet lifter with impact protection**  
Impact protection from polyurethane at the inner side of the grab legs.
- 5 Telescope sheet lifter for two-crane operation**  
Longitudinal stabilisation of sheet stacks by chains and plate hooks. Carrying capacity 11,000 kgs.
- 6 Telescope sheet lifter with suspension for one and two-crane operation** Carrying capacity 8,000 kgs.



## Product benefits

Parallelogram sheet lifters for safe and protective transport of tied goods in stacks such as sheet stacks, particle boards, pallets or similar loads.

- + Reduced to the basics**  
mechanically working parallelogram sheet lifter with chain hoist for opening the grab legs and adjusting the gripping range.
- + Saving space**  
due to slim grab legs it is possible to stock the loads narrowly!
- + Sturdy welded construction**  
with grab legs guided by a parallelogram and low-maintenance friction bearings.
- + Economic**  
long-proven, simple drive concept for low-maintenance and failure-free operation.



Sheet handling

## Standard design

- Gear system**  
Chain hoist for opening the grab legs and adjusting the gripping range.
- Way of load picking up**  
Four gripping arms
- Suspension**  
Suspension suitable for single crane hooks acc. to DIN 15401. Adaption to your crane hook number!
- Operation**  
Two-hand operation by existing crane control.
- Supply**  
Completely wired with electrical control in the switch box and with plug for the connection to your crane facilities.



**Simple. Fast. Lifting.**



# Blank grab

## Product benefits

Grabs for the safe and protective transport of bundled sheet metal blanks and stacks near to ground. Especially suitable for simple and also geometrically more complex metal blank shapes with parallel cutting edges.

### + Safe

Two diagonally offset adjustable mechanical stops prevent the metal blanks from sliding out.

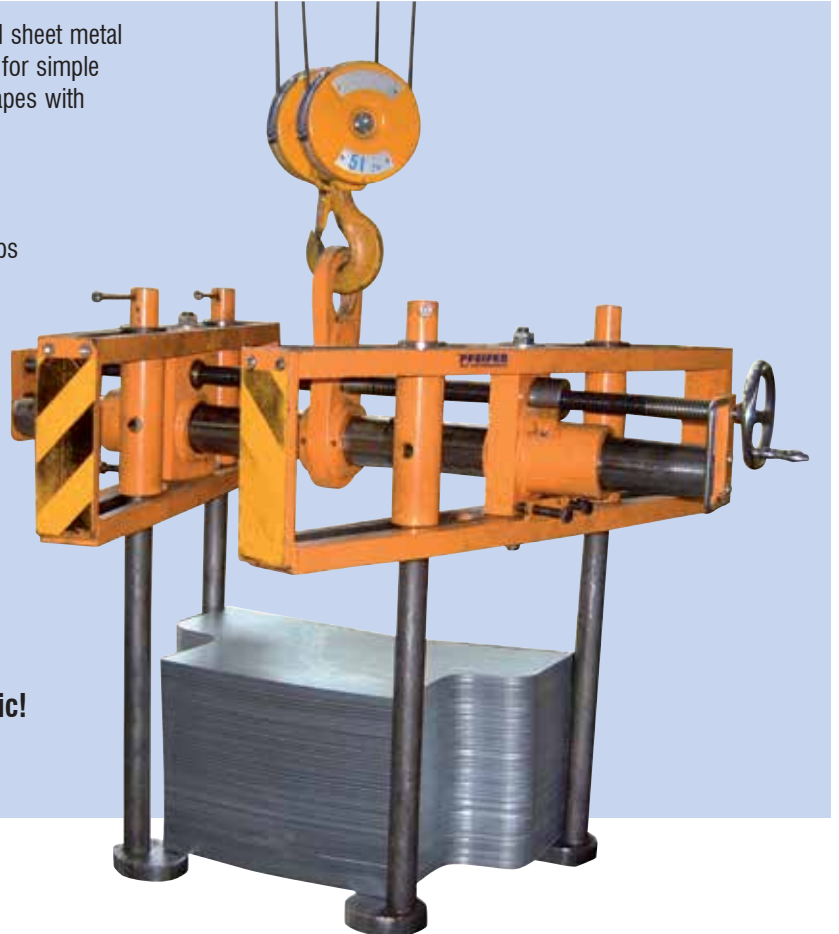
### + Flexible

Manually adjustable gripping legs in both directions adapt to almost any forms of metal blanks. A version with an additional joint in diagonal direction ensures adaption to complex metal blank shapes.

### + Edge-protecting

Gripping legs from circular tube prevent cutting the edges.

### + Extremely sturdy, durable and economic!



## Standard design

### ■ Way of load picking up

Four gripping legs, manually slewable by  $\pm 20^\circ$ .

### ■ Safety equipment

Two adjustable mechanical stops prevent the metal blanks from sliding.

### ■ Suspension

Suspension by shackle or suspension ring suitable for single hooks acc. to DIN 15401.  
Adaption to your crane hook number!

### ■ Operation

Manual adjustment and stop of grab legs in longitudinal direction by threaded spindle and handwheel, in diagonal direction locking by tommy screws.

### ■ Supply

Completely assembled ready for operation.



**Determine by yourself ...**  
We make it fit and deliver standardized  
and user-friendly solutions!



## Product benefits

Fork lifters with anti-sliding mechanism for safe and protective transport of bundles of sheets, metal blanks and particle boards etc. Especially suitable for simple and also geometrically more complex metal blank shapes with parallel cutting edges.

### + Edge-protecting

Bevelled prong ends for protective dead shoring of the load without problems.

### + Safe

Scissors-like pressing system to prevent shifting of loosely stacked loads.

### + Simple load attachment

Horizontal position of probs with and without load due to counterweight and automatic hold-open device.

### + Robust

sturdy, welded body with fork lifter prongs.



## Standard design

### ■ Way of load picking up

Two rigid prongs

### ■ Safety equipment

Locked suspension in unloaded position.

Manual unlocking by cable pull before start of lifting process.

### ■ Suspension

Suspension suitable for single crane hooks acc. to DIN 15401. Adaption to your crane hook number!

### ■ Supply

Completely assembled ready for operation.

## Custom-made solutions

### 1 Fork lifter adapter for telescope coil grab

For the transport of palletised blank stacks.  
Carrying capacity 10,000 kgs.

### 2 Fork lifter with four adjustable prongs

For the transport of palletised blank stacks.  
Carrying capacity 12,000 kgs.



## A safe feeling worldwide



### Everything from one source!

Especially international norms, such as from America or Australia require more – more tests, inspections and checks for lifting devices. We are experienced in these norms and are best versed in their implementations. But we also meet your requirements when they are higher than legally prescribed or if they are part of your supplier's instructions.

#### ■ In-house test centre

Safety you can rely on! Our vast equipment for the checks of incoming material, the manufacturing process as well as the products made safeguard highest safety.

#### ■ Load tests

We test lifting devices with overload and, if required, organise surveillance by an independent institute such as TÜV-Süd or DNV.

#### ■ Welding seams checks (NDT)

We dispose of skilled internal inspectors for the execution of non-destructive tests such as MT, PT and UT.

# Coil hooks – Good due to experience!



## Coil hooks without counterweight compensation

Page 24



## Coil hook with fixed counterweight

Page 25



## Coil hook with automatic counterweight compensation

Page 26

The coil has got a hook! The hook is indispensable for the horizontal coil transport. Tailor-made and optimised for the detailed application it fits perfectly – as coils cannot be pigeonholed. Perfect that we can revert to hundreds of coilhooks – one made by PFEIFER will always suit!

# Coil hooks without counterweight compensation

## Product benefits

Coil hooks without counterweight compensation for the safe and protective transport of tied, narrow steel and split coils in horizontal axis and other rotational hollow bodies.

### + The light one for small and slim things

Perfect to separate or transport slim loads such as rings or slit coils.

### + Without counterweight compensation?

Coil hooks without counterweight compensation are crooked when unloaded, however, they have a very low dead weight. So the coil hook can easily be held in the scales by hand and be safely led into the coil eye.

### + If it fits, it is safe!

Slim loads tend to tilt. If the prong length is adapted to the load width, the load is in contact with the vertical lifting leg and the load centre of gravity is below the suspension. When loaded, the coil hook orients itself with a safety inclination of 5° upwards, so that the load hangs safely.



## Standard design

### Way of load picking up

4/4 prong (prong length = maximum load width)

### Safety equipment

Safety cam prevents the load from sliding down

### Suspension

Suspension suitable for single crane hooks acc. to DIN 15401. Adaption to your crane hook number!

### Operation

Manual operation by handle

### Supply

Completely assembled ready for operation.

**You would like to have even more?**  
Due to our comprehensive range of additional options  
we are well equipped for almost all conditions!  
→ see our additional options for all coil hooks



### We can also help with sensitive steel coils!

Especially the sensitive outer layer and the edges of thin-sheet coils should be protected in order to avoid loss in material. We can protect the contact areas by using rounded covers on the prongs or plates from steel or plastic at the vertical bar of the hook. Just ask! We help you transport your coils safely and without damage.



# Coil hook with fixed counterweight

## Product benefits

Coil hooks with fixed counterweight for the safe and protective transport of tied steel and wire coils in horizontal axis and other rotational hollow bodies.

- + The every-day hook with easy operation**  
Perfect for a quick and safe transport of steel coils or for loading/unloading machines for steel processing. The load can be well positioned and by means of a  $\frac{3}{4}$  prong, the load can even be stocked more narrowly (see optional equipment).
- + With rigid counterweight compensation?**  
The counterweight ensures horizontal prong position in unloaded state and thus simplifies driving into the coil eye.
- + Safe**  
Notch-free inner radius to prevent dangerous notch stress and safety cam at the top of the prong.



## Standard design

- **Way of load picking up**  
4/4 prong (prong length = maximum load width)
- **Safety equipment**  
Safety cam prevents the load from sliding down
- **Suspension**  
Suspension suitable for single crane hooks acc. to DIN 15401.  
Adaption to your crane hook number!
- **Operation**  
Manual operation by handle
- **Supply**  
Completely assembled ready for operation.

**Get it even larger ...**  
Coil hooks also with extra long prong and low construction height, especially for loading and unloading containers.

# Coil hook with automatic counterweight compensation

## Product benefits

Coil hooks with automatic counterweight compensation for the safe and protective transport of tied steel and wire coils in horizontal axis and other rotational hollow bodies.

- + The every-day hook with easy operation**  
Coil hooks with automatic counterweight are lighter than the comparable design with rigid counterweight.
- + With automatic counterweight compensation?**  
The coilhook can move automatically into two positions: into the unloaded and the loaded state. In each state, the horizontal prong position is realised by a gas compression spring. Therefore, a heavy counterweight becomes unnecessary.
- + Safe**  
Notch-free inner radius to prevent dangerous notch stress and safety cam at the top of the prong.



## Standard design

- **Way of load picking up**  
4/4 prong (prong length = maximum load width)
- **Safety equipment**  
Safety cam prevents the load from sliding down
- **Suspension**  
Suspension suitable for single crane hooks acc. to DIN 15401.  
Adaption to your crane hook number!
- **Operation**  
Manual operation by handle
- **Supply**  
Completely assembled ready for operation.

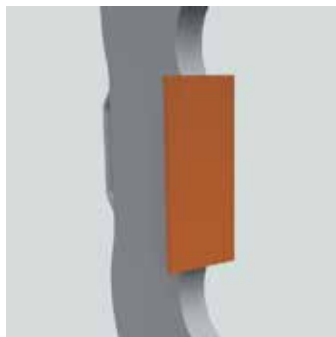
**Problem with the dead weight?**  
Coil hooks with automatic counterweight are lighter than the comparable design with rigid counterweight.

## Additional options (for all coil hooks)



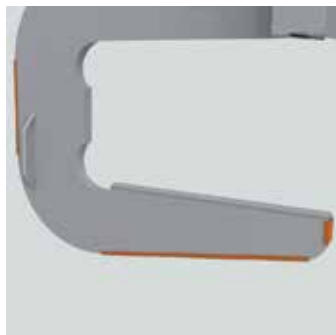
### **3/4 prong**

For lifting tightly stored goods. Length of the coil prong can be reduced to a maximum of 75 % of the coil width. Due to design without safety cam.



### **Stop plate with protection cover**

Wide plate at the vertical inner side of the hook. Protection cover made of steel or plastic.



### **Impact protection**

Protection cover made of plastic on tip of the prong, at the vertical outer side or at the bottom of the coil hook to protect it from damage.



### **Round protection cover**

For sensitive loads, welded on the prong. Bare metal or coated with plastic.



### **Round material prong**

Prong made of round material. For sensitive loads, rings and coils.



### **Stand**

With option for fixture on the factory floor. For safe storage of the coil hook when not used.



### **Manufacture also according to customer's requests**

Suspension for telescope coil grabs, suspension for twin hooks, coil hook for loading and unloading containers, etc. Just ask us!

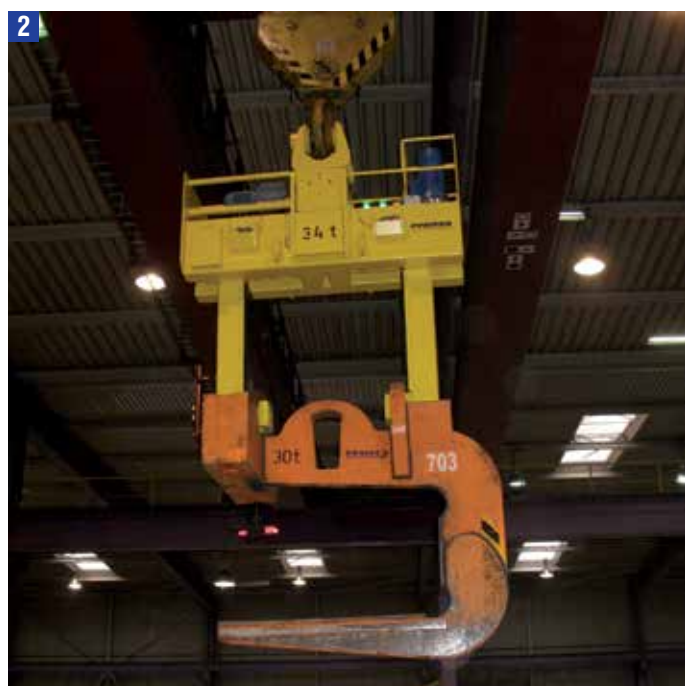
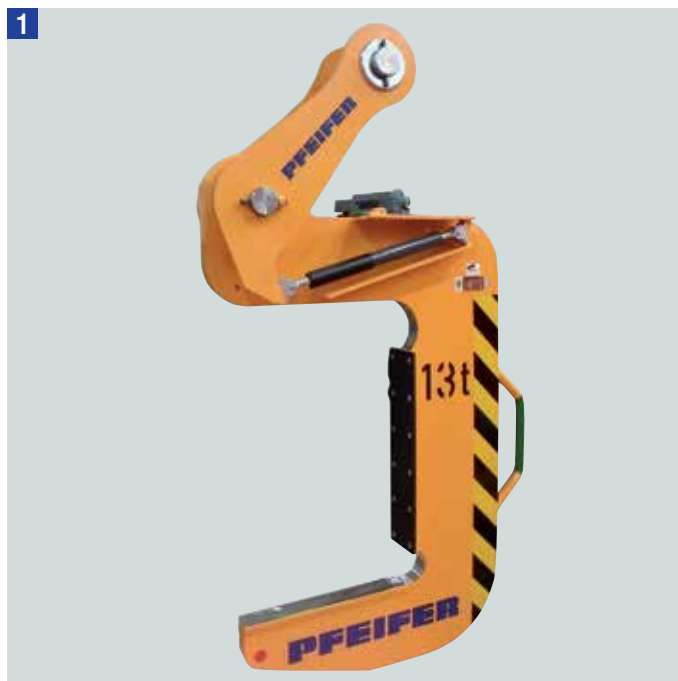
## Custom-made solutions

- 1 Coil hook with automatic counterweight compensation**  
With screwable stop plate made of plastic.
- 2 Coil hook with suspension for telescope coil grab**  
Carrying capacity 30,000 kgs.
- 3 Coil hook with ring suspension**  
Stop plate with protection cover.  
Carrying capacity 17,500 kgs.
- 4 Coil hook with bolt suspension**  
With safety cam. Carrying capacity 35,000 kgs.
- 5 Coil hook with stand**
- 6 Coil hook with chamfered prong**  
For sensitive coils.



### Red dots at the coil hook?

There are two red dots at the coil hook, positioned next to the suspension and at the tip of the prong. The distance of these dots is stamped on the coil hook if the enlargement of the coil hook needs to be checked. See picture 6.





# Pulley blocks – Our core at the rope!



## Pulley blocks

Page 30

We do not only develop with passion for detail but we do also design them with safety and expert know-how. Always planned for the corresponding operational environment, protected from corrosion, heat, dust and moisture – conceived for hard continuous use. Perfectly tailored for the carrying capacity and hoist drive classification – simply the core.

# Pulley blocks

## Product benefits

Pulley blocks for safe lifting and exact positioning of diverse loads. Load attachment by rotatable single hook according to DIN 15401 or double hook according to DIN 15402.

### + Anything but readymade

There are too many factors influencing pulley blocks in order to get them into a standardised modular system. This can only be tackled by experience and know-how when it comes to hoist drive classes, lifting capacities and classifications – and perfectly adjusted to your case of application!

### + Sturdy

high-quality pulleys in solid body.

### + Maintenance-friendly

easy to disassemble, pulleys mounted on an anti-friction bearing can be regreased by the axis.



## Standard design

### ■ Gear system

Slewing drive by electric SEW-gear motor, limitation of slewing range

### ■ Way of load picking up

Single hook according to DIN 15401 or double hook according to DIN 15402, with hook safety catch.

### ■ Suspension

By one or more rope sheaves

### ■ Operation

By existing crane control

### ■ Supply

Without electrical control, completely wired up  
Harting plugs for the connection to the crane electrics.  
Works certificate for forged load hooks.



### Just do not lose the overview!

■ **Hook safety catch – a must-have?** Yes, hook safety catches are mandatory according to the accident prevention regulations. Often they cannot be engaged and disengaged very easily because the loads make it more difficult to reach the load hook. Electromechanically operated hook safety catches are easier and above all safer for the user (see additional options).

■ **Limited slewing range is important for lifting device**  
If lifting devices are to be mounted with an electric power cable, a fix plug connection for power supply might not be a good idea because rotational movement is not possible. Therefore limitation of the slewing range or an integrated slip ring assembly for energy and data transmission is compulsory.

## Additional options



### Unlimited slewing range



### Frequency converter for soft start

Geared motor equipped with frequency converter. Recommended for turning long and heavy loads.



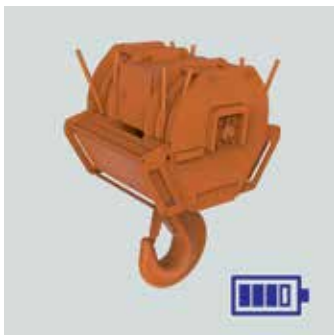
### Electromechanic safety catch

The catch at the load hook is activated by an electric cylinder. With safety switch-off against operating error.



### Integrated weighing system

With large digital weight display and/or with W-LAN radio system for data transfer of the load weight to an evaluation station with printer.



### Battery-powered

Two exchangeable battery blocks, with digital display of voltage and rest running time, approx. 1,000 load cycles per charging.



### Manufacture also according to customer's requests

With heat protection sheet, cable strain relief or a splash-proof design etc. Just ask us!

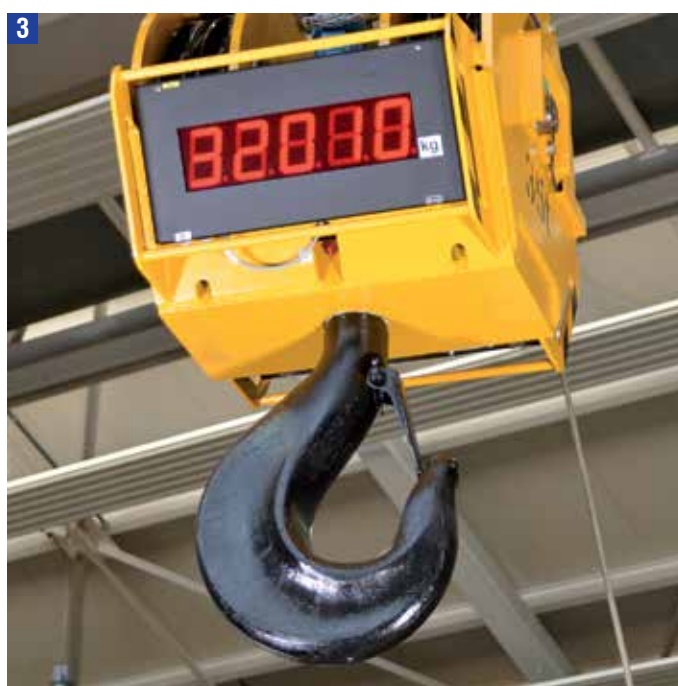


### Plug connection for lifting devices

Plug connection positioned at the bottom for the connection of an electrically operated lifting device.

## Custom-made solutions

- 1 Pulley block with external motor**  
Suspended by 8 sheaves. Carrying capacity 80,000 kgs.
- 2 Pulley block with electromagnetic safety catch**  
For free rotation of the load hook.  
Carrying capacity 30,000 kgs.
- 3 Pulley block with integrated weighing system**  
With large sized digital LED-display.  
Carrying capacity 17,500 kgs.





# Spreader beams – Our variety at the hook!



## Spreader beam with adjustable cross beams

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## Equalising spreader beam

Page 36



## Long-hook spreader beam

Page 39



## Rotating spreader beam

Page 41



## Turnover spreader beam

Page 43



## Other spreader beams

Page 47

**Standardized spreader beams?**  
You can find them in our separate catalogue  
"Standard programme – Lifting technology"!

Spreader beams – quite simply the load lifting devices used most often! Without the “classical” spreader beam, it would be difficult to get goods, machines and installations from A to B.

The different as the loads are, the versatile are the spreader beams made by PFEIFER, always focussed on the basics.

# Spreader beam with adjustable cross beams

## Product benefits

**Spreader beams with adjustable cross beams** for safe and protective transport of loads varying in lengths and widths with coaxial centre of gravity. Load attachment by four load hooks, manually adjustable in fixed grids in longitudinal and cross direction.

**Rigid spreader beam** for safe and protective transport of diverse loads with coaxial centre of gravity. Load attachment by four load hooks with fixed distance of hooks.



### + Well positioned is half the transport

Only if the crane hook is positioned perpendicularly to the load centre of gravity, the transport is safe and solid. If the load centre of gravity is concentric, but the loads varies in length and width, the standard design is perfect. If the load centre of gravity and the stress is one-sided, we will find a safe tailor-made solution for your case of application!

### + Really space-saving

Cross beams can be easily removed for space-saving storage and transport.

### + Robust

Simple and robust design in sectional steel for hard continuous usage.

**Spreader beam with adjustable cross beams also with hooks ...**  
specifically for the transport of skeleton containers or reinforcement steel meshes!

## Standard design

### Way of load picking up

Four load hooks, manually adjustable in longitudinal and cross direction. The load hooks are not swivelling under load (they only serve for positioning without load!). The cross beams and the adjustment points may only be adjusted synchronously.

### Suspension

Suspension suitable for single crane hooks acc. to DIN 15401. Adaption to your crane hook number!

### Supply

Partially preassembled, ready for operation (adjustment points and cross beams have to be attached before commissioning!).



### Which design fits for my load?

Design	Length/Width load	Centre of gravity
<b>Rigid (standard)</b>	Fixed (constant dimensions)	Central
<b>Adjustable (standard)</b>	Varying	Central
<b>Tailor-made</b>	Fixed or varying	Coaxial (one-sided stress)

**We would be pleased to assist you and will gladly offer advice and support:**

**+49 (0) 8331-937-636 or [verkauf-lt@pfeifer.de](mailto:verkauf-lt@pfeifer.de)**

## Custom-made solutions

- 1 Adjustable spreader beam with low construction height**  
Cross beams on top for low heights, cross beams can be used individually. Carrying capacity 15,000 kgs.
- 2 Adjustable spreader beam with hinged cross beams**  
Double-hook suspension. Carrying capacity 30,000 kgs.
- 3 Adjustable spreader beam with low construction height**  
Cross beams on top for low heights. Carrying capacity 30,000 kgs.
- 4 Rigid design.** Carrying capacity 25,000 kgs.
- 5 Tailor-made design with integrated balancers in longitudinal and transverse direction.**  
Carrying capacity 20,000 kgs.
- 6 Adjustable design for the transport of motors.**  
Cross beams are locked by bolts. Carrying capacity 16,000 kgs.
- 7 Adjustable spreader beam with cross beams for machinery components**  
Double-hook suspension by endless wire rope slings. Carrying capacity 66,000 kgs.



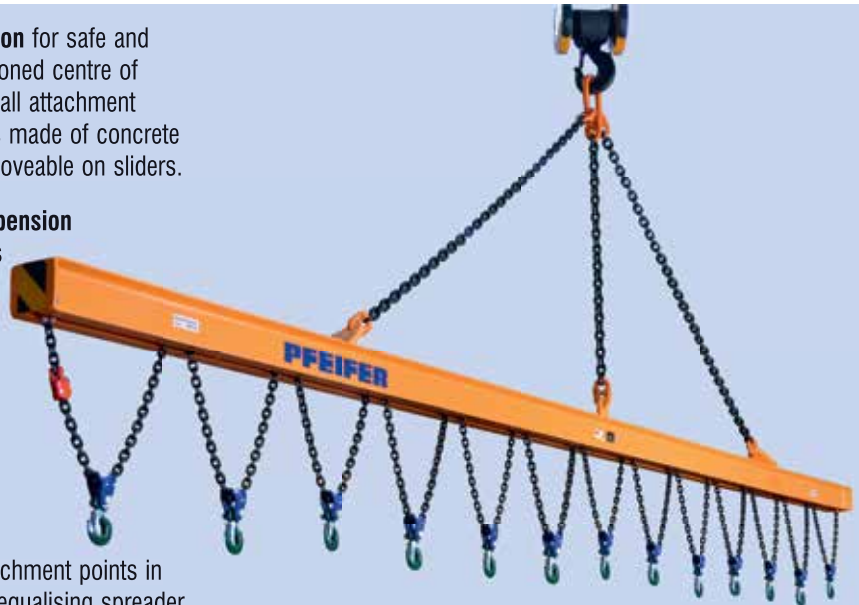


# Equalising spreader beam

## Product benefits

**Equalising spreader beams with rigid suspension** for safe and protective transport of loads with centrally positioned centre of gravity which needs an even load distribution to all attachment points. Especially suitable for prefabricated parts made of concrete and masonry. Load attachment by load hooks moveable on sliders.

**Equalising spreader beam with adjustable suspension** for safe and protective transport of diverse loads with coaxial centre of gravity which needs an even load distribution to all attachment points. Especially suitable for prefabricated parts made of concrete and masonry. Load attachment by load hooks moveable on sliders.



### + Demanded by the constructional professional association!

If there are more than two suspension/attachment points in precast parts from concrete or brickwalls, equalising spreader beams are to be used. They guarantee an even stress of the attachment points during transport.

### + Automatic height compensation

due to load hooks moveable on sliders. A shortener at the end of the chain enables the chain sling to compensate in length, if not all the hooks are used.

### + Suspension with little oscillation

due to chain slings with two or three legs and thus low dead weight.

## Standard design

### ■ Way of load picking up

Various load hooks on sliders, adjustable on a continuous round steel chain. The load hooks are not swivelling under load (they only serve for positioning without load!). Consider the minimum number of load hooks that have to be attached.

### ■ Suspension

Rigid suspension. Suspension by chain sling suitable for single hooks acc. to DIN 15401. Adaption to your crane hook number!

### ■ Supply

Completely assembled ready for operation.

**No one distributes loads more evenly!**



## Custom-made solutions

### Your transport – your lifting device!

If our standard modular system is not enough, we make it fit – specially tailored to your specified requirements.

- 1 Equalising spreader beam – designed as spreader beam with cross beams**  
Double-hook suspension. Carrying capacity 12,000 kgs.
- 2 Equalising spreader beam with adjustable suspension by an electric motor**  
With 13 load hooks. Carrying capacity 8,000 kgs.
- 3 Equalising spreader beam – designed as frame-shaped spreader beam** For the transport of rectangular precast elements. Carrying capacity 45,000 kgs.
- 4 Equalising spreader beam with rigid suspension**  
With 13 load hooks. Carrying capacity 7,000 kgs.



## The position of the load centre of gravity



**The position of the load centre of gravity and the attachment points – there is nothing more important when lifting, especially when lifting with spreader beams.**

**Crane hook and load centre of gravity always form a vertical line.**

When lifting a load, the crane hook is always above the load centre of gravity. If the crane hook is not positioned above the load centre of gravity, the system tilts when lifting until the crane hook positions itself above the load centre of gravity and the system is balanced again! There are two very important points to consider:

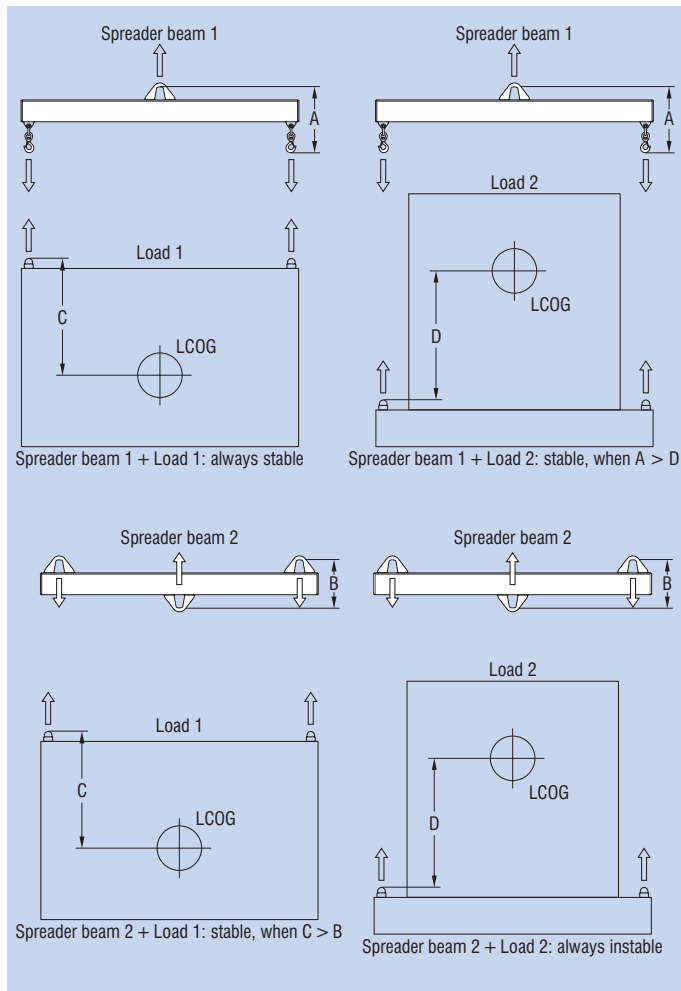
### 1) Construction height of the spreader beam

The greater the construction height of the spreader beam, the less the spreader beam must tilt in order to position the crane hook above the load centre of gravity. The construction height of a spreader beam is the dimension between the lower edge of the suspension and the point of support of the attachment device (dimension A or B). When the cross girders are on top of the spreader beam (such as displayed in the sketches 2 and 4) or when the suspension is between two longitudinal girders are regarded as spreader beams with a low construction height. These therefore tend to swing. Spreader beams with a 2-legged chain suspension are most stable as the construction height is increased due to the chain.

### 2) Attachment points at the load

The best starting position are loads whose attachment points are above the load centre of gravity and which are lifted by means of spreader beams whose construction height is positive (see picture 1). In case of negative construction height (picture 2), the load is only stable when  $C > B$ . Loads whose load centres of gravity are above the attachment points (pictures 3 and 4) are difficult. In this case you will need spreader beams in any case which have a very large, positive construction height. Crossed attachment or regular lashing of the load helps to achieve a certain amount of stability. Just ask us when you are not sure. We will help you.

Spreader beam 1 has a positive construction height as the attachment point of the crane hook is higher than the support points of the attachment devices to the load. Spreader beam 2 has a negative construction height as the suspension of the crane hook is lower than the attachment points to the load.



**Always consider the correct combination of type of attachment and design type of the spreader beam!**

## Product benefits

Long-hook spreader beams for safe and protective transport of diverse loads with shafts or winding spindles. Especially suitable for the transport of paper rolls on tambours, for foundry boxes with pins, rollers, axes, etc. Load attachment by two rigid long hooks with fix distance of hooks.

- + Perfectly suitable for shafts and drifts**  
especially when space is narrow, shafts and drifts can rapidly be taken up and transported.
- + Rapid lifting of loads**  
by long hooks without safety catch. The radius of the curves adapted to the shaft and the large distance between base and the tip of the hook prevent unintentional unhooking of the shafts or drifts.
- + Covers protect from wear**  
The long hooks can be equipped with covers from plastic, bronze or high-tensile steel in the hook base. Can be exchanged or retrofitted very easily as the covers are screwable.



Spreader beams

## Standard design

- Way of load picking up**  
Two rigid long hooks with fixed distance of hooks.
- Suspension**  
Suspension suitable for single crane hooks acc. to DIN 15401. Adaption to your crane hook number!
- Supply**  
Completely assembled ready for operation.

**Also with hinged, manually or electrically adjustable long hooks**



### Hot loads or high surrounding temperatures?

Without any more specific requirements, our lifting devices are designed for a temperature range (of load surface and surroundings) of  $-20$  to  $+65^{\circ}\text{C}$ . However, we also able to achieve more: Spreader beams for foundries with high load surface temperatures can be equipped with a heat-protection sheet at the lower side of the girder, with wear-protection covers from steel or at the bed of the hooks or longhooks from heat-resisting steel. Thus, for example  $500^{\circ}\text{C}$  hot bollards can be lifted.

**We would be pleased to assist you and will gladly offer advice and support:**

+49 (0) 8331-937-636 or [verkauf-It@pfeifer.de](mailto:verkauf-It@pfeifer.de)

## Custom-made solutions

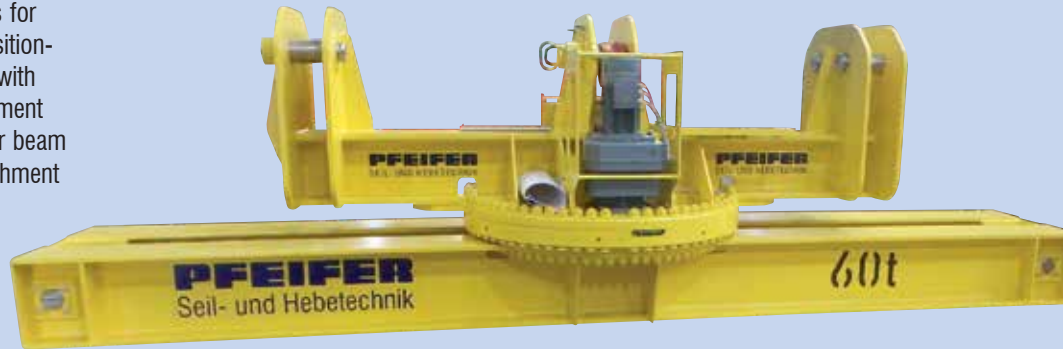
- 1 Long-hook spreader beam for foundry use**  
With gimbal-mounted long-hooks made of heat-resisting steel, screwable covers and shield for heat protection. Carrying capacity 20,000 kgs.
- 2 Long-hook spreader beam with hinged long-hooks**  
For tambours. Carrying capacity 12,000 kgs.
- 3 Long-hook spreader beam with covers**  
For protection against corrosion and wear in the hook base.
- 4 Long-hook spreader beam with gimbal-mounted long hooks**  
Suspension by bolts for double-hook suspension respectively for two double hooks for two crane operation. Carrying capacity 80,000 kgs.
- 5 Long-hook spreader beam – designed as rotating spreader beam**  
For the transport of reels. Long hooks can be manually adjusted in three positions. Carrying capacity 4,000 kgs.





## Product benefits

Rotating spreader beams for safe lifting and exact positioning of loads of all kinds with two cranes. Load attachment by lower placed spreader beam with miscellaneous attachment options.



### + Give the possibility to two cranes to rotate your loads horizontally and to position them precisely!

Rotating spreader beams do not only interlink two cranes so that their lifting capacities can be added up, but they can also rotate and position the loads to the point.

### + Rotate with safety

The load hangs at a ball-bearing supported slewing ring! In our company, we focus on safety, not only for our own products but also for purchased parts. In terms of ball-bearing supported slewing rings we thus rely on highest quality and only cooperate with German market leaders of slewing bearings.

### + Combine flexibly – to put it simply

When it comes to rotating spreader beams, there is nothing ready-made. From above, the demands come from the cranes, from below from the loads. Nevertheless, flexibility is possible: by means of cleverly chosen attachment points at the lower spreader beam. Long hooks, diagonal spreader beams or attachment devices can be directly attached by bolt connections, on the other hand, the function of a two-crane-spreader beam can also be performed. We supply the suitable concept made to measure!

## Standard design

### ■ Gear system

Electromechanical horizontal slewing gear by ball-bearing supported slewing ring, limitation of slewing range

### ■ Way of load picking up

Miscellaneous attachment options by means of lower placed spreader beam: long hooks, bolts, cross beams etc.

### ■ Suspension

Suspension suitable for two single crane hooks acc. to DIN 15401 (two crane operation).  
Adaption to your crane hook number!

### ■ Operation

By existing crane control. During operation, the two cranes are to be synchronised.

### ■ Supply

Completely wired with electrical control in the switch box and with plug for the connection to your crane facilities.

## Custom-made solutions

- 1 Rotating spreader beam – small and compact**  
With bolts at the lower placed spreader beam.  
Carrying capacity 10,000 kgs.
- 2 Rotating spreader beam with hinged long hooks**  
For the transport of reels. Long hooks can be manually adjusted in three positions. Carrying capacity 4,000 kgs.
- 3 Rotating spreader beam with hinged long hooks**  
Distance of long hooks 11,500 mm.  
Carrying capacity 138,000 kgs.
- 4 Rotating spreader beam with cross beams**  
For the transport of stacked augers of harvester-threshers.  
Lower placed spreader beam with central load hook and set-down feet at the cross beams.  
Carrying capacity 15,000 kgs.
- 5 Rotating spreader beam with hinged long hooks**  
Carrying capacity 5,000 kgs.



# Spreader beams

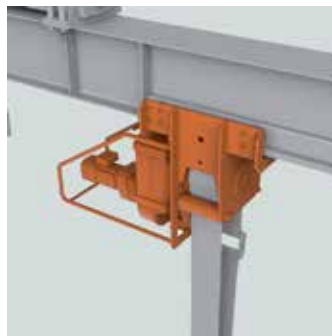
Also possible: designed as single turnover units for two-crane operation!

## Additional options



### Manually adjustable turnover units

Turnover units with roller bearings for easy adjustment. With pre-defined grids for locking.



### Adjustable turnover units by an electric motor

Synchronously adjustable by spindle drive system.



### Load attachment by endless chains



### Adjustable suspension under load

The suspension of the loaded spreader beam is positioned automatically and vertically above the load centre of gravity by spindle drive system.



### Battery powered

Two exchangeable battery blocks, with digital display of voltage and rest running time, approx. 1,000 load cycles per charging.



### Manufacture also according to customer's request

With belt cut-off, asynchronously turnover units, double-crane operation, etc . Just ask us!



### Set-down feet

Integrated at the front



## Custom-made solutions

### Your transport – your lifting device!

When our standard design is not enough, we fit it to your requirements. Your lifting device – exactly made to your specific requirements.

- 1 Turnover units** for turning balconies.  
One unit driven by an electric motor and one not driven, just running unit. Carrying capacity 12,000 kgs.
- 2 Turnover units** for turning telescope profiles. Powered by batteries, approx. 120 turnover processes. With belt cut-off. Carrying capacity 12,500 kgs.
- 3 Turnover spreader beam with continuously adjustable units by electric motor**  
For turning truck welding frames. Double-sided PU-coated belts. Admissible adjustment under load up to a maximum of 2°. Carrying capacity 12,000 kgs.



## Custom-made solutions

- 4 Turnover spreader beam with rigid belt distances**  
For turning precast elements. Carrying capacity 16,000 kgs
- 5 Turnover spreader beam with manually adjustable turnover units**  
Operation by control unit. With set-down feet and suspension by 2-legged chain sling. Carrying capacity 10,000 kgs.
- 6 Turnover spreader beam with manually adjustable turnover units**  
Belt locks can be driven through the gear rollers. Turnover units on roller bearings for simple relocation. Carrying capacity 30,000 kgs.
- 7 Turnover spreader beam in heavy-duty design with endless chains**  
Turnover units can be adjusted synchronously and asynchronously for equalising the load centre of gravity. With steel edge protections to be fixed by magnets. Carrying capacity 130,000 kgs.
- 8 Turnover units for turning vehicle frames**  
One turnover unit driven by an electric motor, one unit only running. With adapter plate screwed on both sides as turnover assistance. Carrying capacity 2,000 kgs.





## Product benefits



### Extreme loads are no problem!

Our strength is lifting – not only loads with a weight of hundreds of tons – but also of extremely long, wide or high loads.



## Heavy-duty spreader beam for the transport of nacelles in offshore operation



## Spreader beam for the transport of locomotives



With manually adjustable working length and transport system for fork lift truck. Use in pairs for the operation with four cranes. Total carrying capacity 70,000 kgs.

**Also locomotives must be lifted!**

## Spreader beam in tubular design for the transport of 60 m long rotor blades



Three-piece design, screwed by flange joints. Attachment by various round slings and also sling-chain connections for different rotor blades. Crane suspension by four rope slings of 16 m. Successfully passed load test with 25% overlaid and TÜV certificate.



## Double-crane spreader beams for the transport of heavy concrete segments



**Two double-crane spreader beams for the transport of concrete segments of a weight of 46 tons and a length of 35 m.**

The attachment points to the load are variable, in order to attach different concrete elements. A jointed rocker safeguards even load distribution to the transport anchors. Transport by four synchronised gantry cranes.





## To each load their own

- 1 Container spreader beam for the transport of ISO containers.**  
Attachment by twistlocks, locking by chain block and bevel gear. Optical display of the twistlock positions. Carrying capacity 16,000 kgs.
- 2 Adjustable spreader beam for the transport of construction machines**  
Carrying capacity 16,000 kgs.
- 3 Spreader beam with cross beams for the transport of crane segments**  
Carrying capacity 25,000 kgs.
- 4 Star-shaped spreader beam for the transport of precast concrete elements** Adjustable, with electric screwing unit for transport anchors. Carrying capacity 50,000 kgs.
- 5 Spreader beam system for the transport of machine components** For four-crane operation, with central spreader beam. Longitudinal spreader beams can be used as single spreader beams. Total carrying capacity 70,000 kgs.



# Turning Devices – Our best on ground level!



## **Slewing coil positioner AXXO**

Page 51



## **Positioner INVERTO**

Page 53

Slewing and turning – so easy! Two positioners for all kinds of operation and many loads! The slewing positioner AXXO for compact, small loads of up to 10tons or the PFEIFER INVERTO for heavy and bulky goods of up to 30tons.

## Product benefits

Swivelling coil positioner AXXO for safe and gentle turning of compact, small loads up to 10 tons by 90°. Especially suitable for palletised sheet straps, steel coils and reels.

### + Highest efficiency

Due to fork lifter clearances, the table can be used everywhere and the space needed is limited to a minimum as loading and unloading is done from the same side. A simple 400V plug is enough to connect the table with the cable to the power supply.

### + Flexible in operation

Suitable for a large number of loads such as palletised sheet straps and steel coils, paper rolls, cable reels, rope reels, injection moulds and tools.

### + New definition of gentle turning

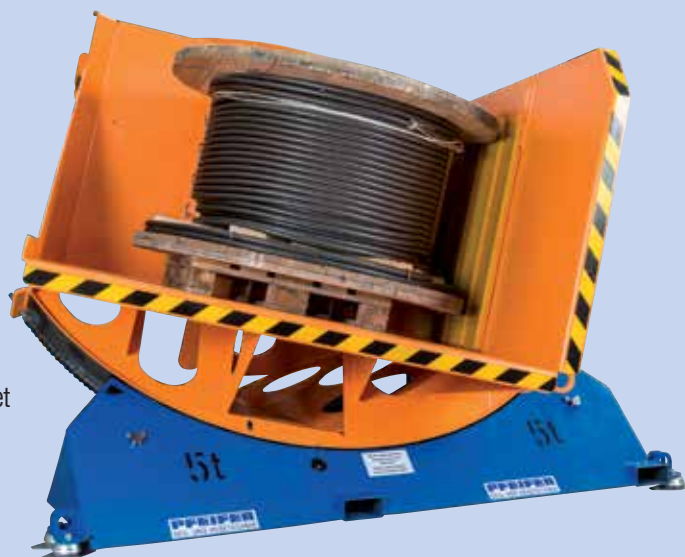
The turning axis runs through the load's centre of gravity. Therefore, there are hardly any moments of tilt making gentle turning possible. A frequency converter is not necessary.

### + Safety for you and your load!

Complex safety technology such as safety fences or locking devices for your loads are not necessary

### + Integrated load cycle meter

As an assistant to determine the service life as well as to support in service and maintenance jobs.



## Standard design

### ■ Safety equipment

Turnover procedure can be stopped at any time and in each position by emergency stop. Two flashing lights signalise the turnover procedure optically. Acoustic warning signal when turnover procedure is started

### ■ Load

Loading and unloading possible from the same side. Best suitable for hand pallet trucks, fork lifters and coil hooks.

### ■ Operation

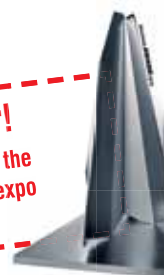
Radio remote control

### ■ Supply

Completely ready to operate with 400V-CEE plug socket. Incl. integrated load cycle meter



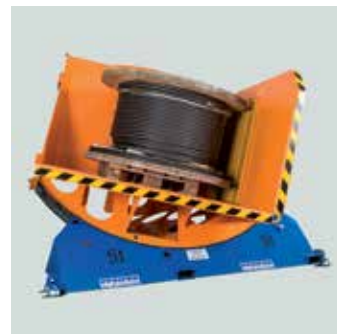
**Determined competitor!**  
Winner of the Blechnet Award and the  
Blechnet User Award in the Blechexpo  
Exhibition 2015!



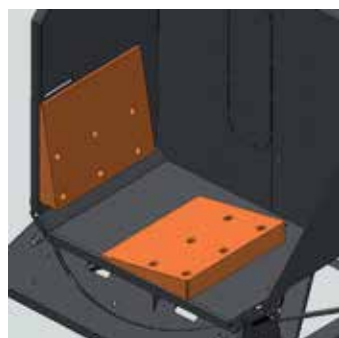


## Product variants

SWL to	max. outer load diameter mm	max. load width mm	turning time s	Reference no.
2	1200	800	40	278417
6	1500	1000	40	278418
6	1800	600	40	278419
10	2000	1200	60	278420

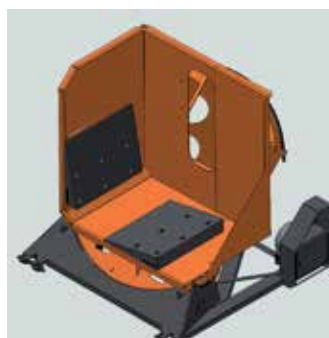


## Additional options



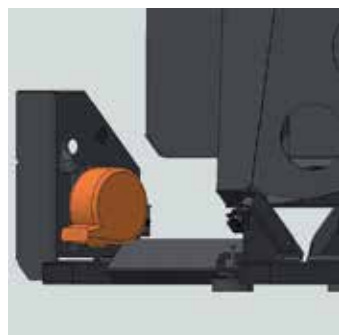
### Supporting wedges for loads with rotational symmetry.

For a safe transport of horizontal loads such as coils, reels etc. Screwable onto the table surface. Set consisting of two pieces (one each per table surface). Can be exchanged and retrofitted!



### Clearance in the table surface

For easy unloading and loading by means of a coil hook, possible from one side



### Spring cable reel

Cable length 15 mts.



### Manufacture also according to customer's requests

Just ask us!



## Product benefits

Positioner INVERTO for the safe and gentle turning of heavy, bulky loads up to 30 tons by 90°. Especially suitable for tools, injection moulds, steel coils and paper rolls.

### + Protective

due to a frequency converter the turning procedure starts and ends slowly in order to reduce the turning time to a minimum by means of rapid drive in the middle

### + Safe

by en housed or integrated safety bumpers (see standard design "safety kit").

### + Mobile

due to fork lifter clearances, the positioner can be transported to various locations of use. A simple 400V plug is enough to connect the positioner with the power supply.

### + Flexible

by three table surface options:

- for coils both or only one table surface with central clearance for easy loading and unloading by means of a coil hook
- for injection moulds: both table surfaces without clearances.



### + Integrated load cycle meter

as an assistant to determine the service life as well as to support in service and maintenance jobs.

## Standard design

### ■ Gear system

2legged turnover gear system by geared motor and chain

### ■ Safety equipment

Turnover procedure can be stopped at any time and in each position by emergency stop. Two flashing lights signalise the turnover procedure optically. Acoustic warning signal when turnover procedure is started.

### ■ Operation

Radio remote control (in case of integrated safety rails) or stationary control key (in case of housing).

### ■ Supply

Completely ready to operate with 400V-CEE plug socket. Electrical supply lines, anchoring bolts if necessary or foundation works as well as safety fences are to be arranged for by the client.  
Incl. integrated load cycle meter

### ■ Optional safety packages

**Safety rails:** Safety rails at the upper side of the basis frame cutting off the turnover procedure in case of clamping or crushing hazard.

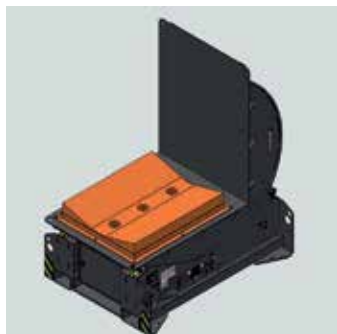
or

**Fence with safety light barriers:** Safety fence with transceiver, passive reflectors and cable conduits. Can easily be installed on site.

**Available in four sizes ...**

- Size 0: up to 2 to
- Size 1: 2 up to 8 to
- Size 2: 8 up to 15 to
- Size 3: 15 up to 30 to

## Additional options



### V-shaped cover for cylindrical loads such as coils.

V-shaped elements similar to plates from plastic for preventing the horizontally positioned coils from rolling down. Can be screwed onto the table surface. Can be exchanged and/or retrofitted!



### Protective covers for loads with sensitive surfaces.

PU plate can be slid onto the table surface. Can be exchanged and/or retrofitted!



### 180°-Swivelling unit

Integrated in the table base – with high-quality ball-bearing slewing ring for swivelling the position by 180°. Loading and unloading possible from the same side!



### Spring cable reel

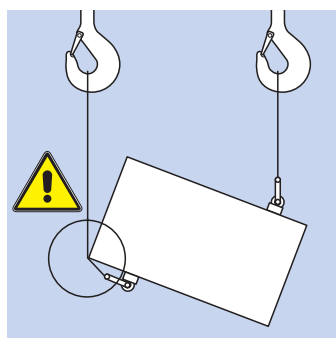
Cable length 15 mts.



### Manufacture also according to customer's requests

Just ask us!

## Safer operation



Slings and chains that often damage sensitive load edges ...



... as well as some adventurous and dangerous methods for turning loads become redundant!



Turn large and bulky goods fast, safe and **without a crane!**

## Custom-made solutions

- 1 Positioner with spindle-driven linear guide units.**  
For depalletising steel sheets. Carrying capacity 5,000 kgs.
- 2 Positioner on rails**  
For the turning of steel coils. With electrically moveable support plate and bowl. Driving on rails via battery. Turning process in fixed position with power supply. Carrying capacity 20,000 kgs.
- 3 Positioner for large injection moulds**  
For turning of injection moulds. Dimension table top 3000x2000x3000 mm. Carrying capacity 32,000 kgs
- 4 Positioner for fleece rolls**  
For turning of fleece rolls on paletts. Accessible by fork lifter. Carrying capacity 1,000 kgs.
- 5 Positioner with fence and safety light barriers**
- 6 INVERTO 10 with protection covers**
- 7 INVERTO 8 with 180° slewing device.**  
With special equipment.





## Choose the right one

*Can be loaded and unloaded from the same side!*



### AXXO

#### Loads

**Compact, small loads up to 10 tons**

Especially suitable for

- palletised sheet straps
- steel coils
- reels

#### Loading Unloading

**Can be loaded and unloaded from the same side**

Especially suitable for

- fork lifters, fork lift trucks
- coil hooks

#### Surrounding conditions

**Small need of space**

#### Safety

**No protection fences, barriers or similar necessary**

*Load can protrude from the table surfaces!*



### INVERTO

**Heavy, bulky loads up to 30 tons**

Especially suitable for

- tools
- injection moulds
- steel coils
- paper reels

**opposite loading and unloading position**

Especially suitable for

- fork lifters
- coil hooks
- telescope coil grabs

**Space for shunting the fork lifters necessary**

**Either safety rails** at the positioner itself or at the **fence** around the positioner with safety light barriers are necessary





## Expert Know-How



- We have been developing lifting devices for all branches individually for your material handling – for more than forty years! Thus, you can confidently trust in PFEIFER.
- We bring technology into application – more safety and flexibility for mobile working!
- We move with “added value” – a promise that excels all the achievements of our enterprise.



## Lifting – With Passion!



Paper rolls, steel mesh, rolls, injection moulds – loads create demands, addressed to you and to us! We invent, develop, manufacture and lift – between requirement and reality. Safe lifting devices fulfilling their tasks and safeguarding effective transport processes for you. Every day, with enthusiasm, with passion.

## Did you know that ...



### **... we have developed and improved our blocking system?**

Our new blocking system now works even safer and more effectively. It still combines the safety of a spindle drive with the economic advantages of a roller chain gear system.



### **... we also come to your site for acceptance and training?**

We put the lifting device into service together with you and train your staff regarding perfect operation and maintenance. Our cooperation does not end with an acceptance – we remain your partner during the whole life of the lifting device!



### **... we take first steps into the direction of “condition monitoring” with our telescope coil grabs?**

We create real added value from data, elevating the operator's safety and organising maintenance “proactively” and stateful. Always keeping an eye on the states – in a new, informative, foresighted, globally linked way.



**You will find more news and information on the internet under → [www.pfeifer.info](http://www.pfeifer.info) or if you prefer personal contact, please call under 08331-937-636.**



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At our national and international  
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We look forward to hearing from you!