

Smart Lifting

Product overview
Lifting technology



PFEIFER



We lift with safety. And experience.

Our lifting devices have been manufactured in Memmingen for over 50 years. This longstanding expertise and perfection in the production processes is reflected in the quality of our products.

Perfectly integrated

We develop our products so that they fit perfectly into your transport processes – exactly according to your requirements: very simple or technically complex.

Production in Memmingen

'Made in Germany' is a matter of course for us. We value quality and short distances between design and production. This allows us to maintain an overview at all times – until the finished lifting device leaves our premises.

More than lifting

We combine reliable technology with the latest developments to create lifting devices that can do much more: More effectiveness in the process and more safety for the user.

On your premises

We carry out commissioning together with you and instruct your employees in operation and maintenance. And we will be there for you throughout the life of the lifting device!

It always fits

We lift everything! Whether individual sheets and beams or entire machines. Whether heavy or bulky. And if no standard product fits: we make it fit!

Safe worldwide

International standards in particular, such as American or Australian standards demand more – more tests, inspections and controls for lifting devices. We have experience of these standards and are very familiar with their implementation!



Smart Lifting

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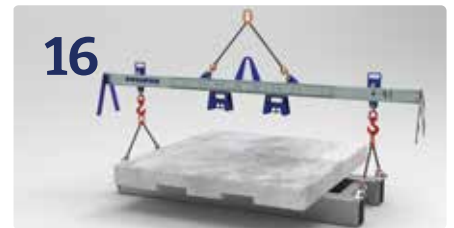
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Coilhandling

Coil hooks & Telescope coil grabs

Coils are as different as their applications. It's a good thing that we have hundreds of Coil hooks and Telescope coil grabs to choose from. Because they fit best when customised for the specific application – our new NOVA now also scores points in the modular system. Configure your own coil grab and test our new NOVA Plus highlight!



Coil hooks

Ideal for transporting steel coils

or for loading and unloading sheet metal processing machines. The $\frac{3}{4}$ prong allows the load to be well positioned and stored even closer.

With rigid counterweight compensation

The counterweight ensures a horizontal prong position when empty, making it easier to drive into the coil eye.

With automatic counterweight compensation

The coil hook has two positions that it can automatically move to and in which it can adjust the horizontal prong position using a gas pressure spring: the empty state and the loaded state. There is no need for a heavy counterweight.

✓ Perfect for steel coils



Steel coils
Slit strips
Wire coils
Round profiles





Only 6 weeks
delivery time

Telescope coil grab NOVA

.....

Simply modular

Customisable modular system, with options that can be retrofitted at any time

Up to 40 t load capacity and configurable with internal arm heights of 800 mm, 950 mm and 1,000 mm

Choice of three drive modules:

Roller chain, spindle or blocking drive

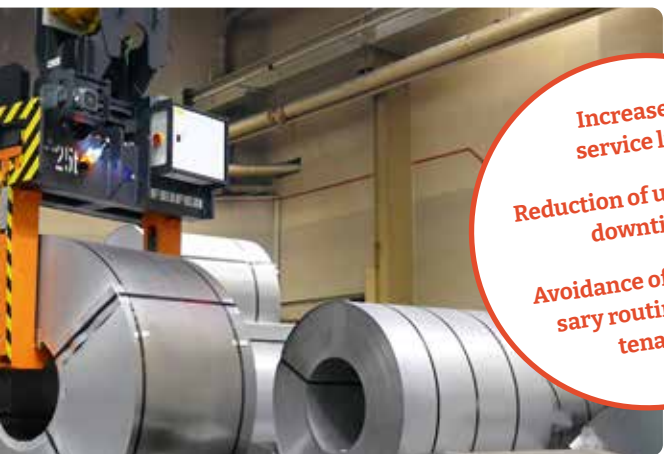
Further options such as slewing gear, foldable pads, search for coil eye, approach roller and more

6 weeks delivery time – simply unbeatable!

With NOVA Plus module (see box on the right)

With mechanical load safety device and switch-off of the closing movement via cut-off relays or light sensors.

✓ **Designed for the European market**



Increased
service life
Reduction of unplanned
downtime
Avoidance of unneces-
sary routine main-
tenance



Our NOVA Plus module for Telescope coil grabs

The **NOVA Plus** unit sits between the suspension and the housing. Thanks to its modular design, **NOVA Plus** can be retrofitted. In combination with a PLC control unit, **NOVA Plus** is the intelligent solution for modern automation:

+ Determines the load weight

The determined load weight is shown on an XXL touch display or can also be shown on other displays if required. Note: No calibration capability!

+ Determines the actual service life

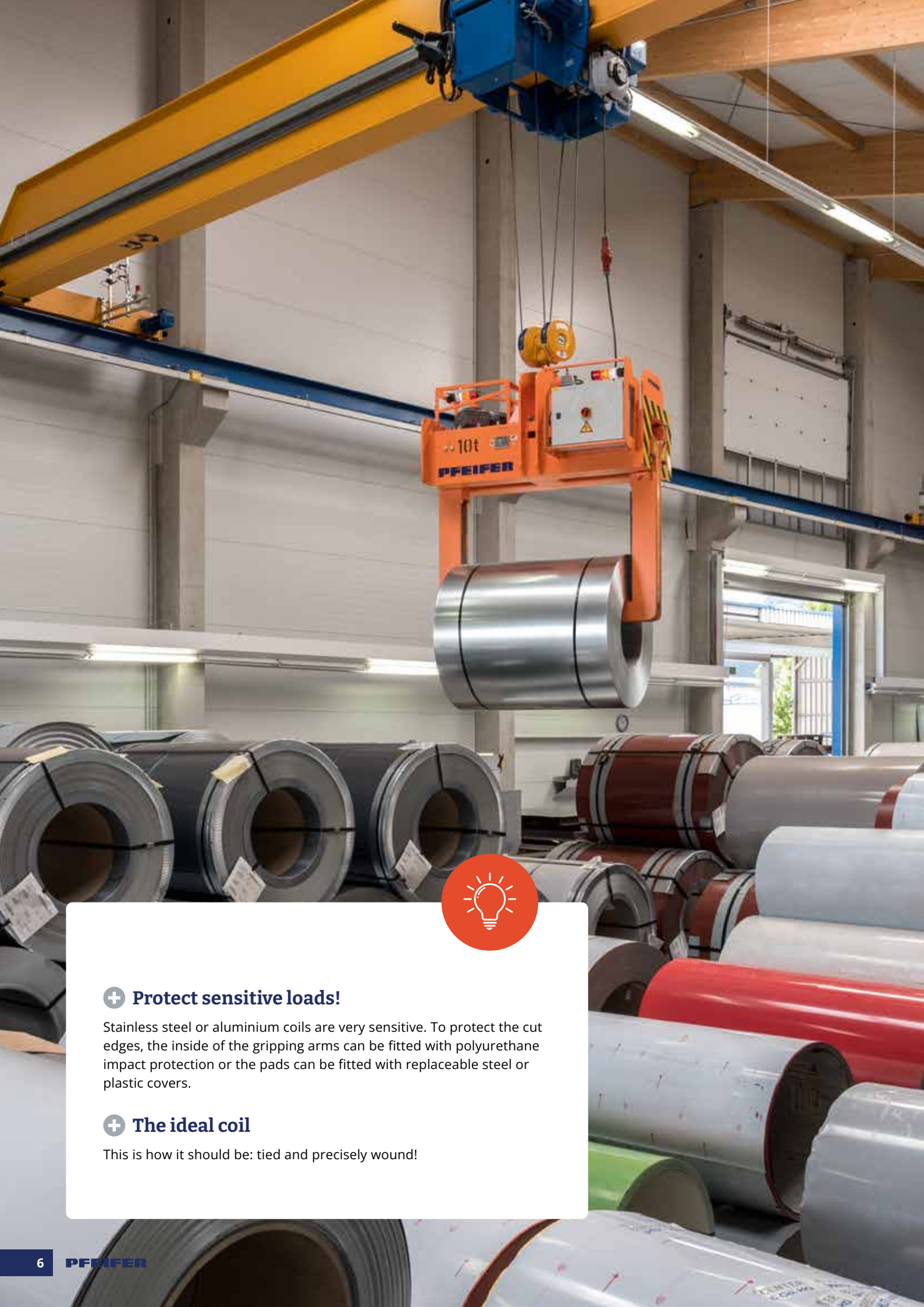
The number of load cycles and their actual transport weight are recorded. This enables **NOVA Plus** to determine the actual load spectrum and indicate the remaining operating hours. The load determines how long you can lift with your coil grab – and with **NOVA Plus** this is based on real data!

+ Shows all device data at a glance

Status of the sensors, status and operating times of the geared motors, energy consumption of the coil grab, number of overloads ... data in real time!

+ Plans maintenance at the optimum time

As soon as the chain, the safety devices or the geared motor have reached certain operating hours and the stored maintenance intervals, a maintenance message automatically appears on the display. The time until the next maintenance can be displayed at any time – the **NOVA Plus** works proactively!



+ Protect sensitive loads!

Stainless steel or aluminium coils are very sensitive. To protect the cut edges, the inside of the gripping arms can be fitted with polyurethane impact protection or the pads can be fitted with replaceable steel or plastic covers.

+ The ideal coil

This is how it should be: tied and precisely wound!



Perfect for
slit strips

Telescope coil inner grab

The right one for slit strip

For fast and safe transport of stacked slit strips without a pallet.

Robust

Proven, welded box-type design for the toughest continuous operation and large number of load cycles

✓ Perfect for slit strips



Internal wire coil gripper

Standard models for **3,000 kg and 5,000 kg load capacity**

The innovative reversible gripping jaw of the **5 t version covers a gripping range of 500 mm to 950 mm**, making it the solution with the largest gripping range on the market.

Linear-guided gripping arms and the generous immersion depth of the 5 t model allow for off-centre positioning on the coil and ensure centring before the jaws engage. Both models are load-locking with automatic hold-open device.

Robust

Sturdy lever design with replaceable gripping jaws made of highly wear-resistant special structural steel



Sheet handling

Sheet lifters & Fork lifters for stacks

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 grabs and forklifter variations (designed with experience, welded with quality) and above all conveyed for hard continuous operation!

Telescope sheet lifter



The new generation of sheet lifters

Latest technology in practical standard modular system and also manufacture acc. to customer requirements!

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.

The Plus of data and safety

With the **optional NOVA Plus system, the weight of the load can be determined** and displayed on an XXL touch-screen. Internally, the system calculates the load spectrum, remaining service life and other maintenance-related data – making it easier to plan service and maintenance based on actual operating data.



Sheet metal
stacks
Blanks
Tied stacked
goods





Perfect
for reinforcement
steel mesh

Parallelogram sheet lifter

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.

✓ Also perfect for reinforcement steel mesh



Tightly stored sheet metal stacks or truck loading?

The solution: swivel-mounted pads – they only swivel in under the sheet metal stack. This means that only slightly more than the profile width of the grab leg is required to pick up the load!







Fork lifter for stacks

Edge-protecting

Bevelled tine ends for gentle and trouble-free driving under the load.

Safe

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

Simple load attachment

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

Robust

Sturdy, welded body with fork lifter prongs.



Commissioning

We put the lifting device into operation together with you and train your employees!



Turnover devices

Positioners & Turnover spreader beams

Turning and rotating components is often not the easiest task in manufacturing processes. But turning is not difficult. And turning heavy parts is not difficult either. If you know how: PFEIFER turning products are always the right choice – whether floor-mounted or attached to a crane hook, with positioners or turnover spreader beams!



Individual
turning angle



Coils
Injection molding tools
Tool molds
Paper rolls
Precast concrete parts
Welding frames
Machine components

Positioner INVERTO

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.

Mobile

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

Modular

The INVERTO can be configured as required thanks to exchangeable and retrofittable table tops.

Teach-in function

The turning angle can be individually set and saved.

Size

Capacity	Table top dimensions
2,000 kg	900 × 700 × 900 mm
8,000 kg	1,300 × 1,000 × 1,300 mm
15,000 kg	1,500 × 1,200 × 1,500 mm
30,000 kg	2,000 × 1,500 × 2,000 mm

A 400V plug
is enough



Safe

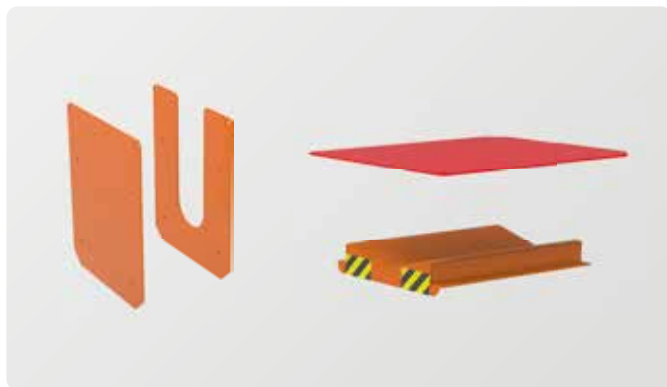
Protection against injury is provided by a solid housing or built-in safety bars, which switch off the turning process if there is a risk of trapping or crushing. When the turning process starts, acoustic and visual warning signals ensure safety.

Flexible thanks to 180° turning unit

for loading and unloading from the same side

Flexible due to different table tops

- **for coils**
table top with recess for easy loading and unloading using coil hooks, prism support
- **for injection molding tools**
both table tops without recess
- **for sensitive loads**
table top or prism PU-coated



AXXO rotary positioner

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 slit 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.





Tip: Perfect for precast concrete elements

Precast concrete elements can be turned easily and safely. Whether with our turning spreader beams or two separate turning units – also available battery-operated!

Turnover spreader beam



Simple

Just put lifting straps around your load and there you go. Adventurous and dangerous methods for lifting loads with two cranes, anti-sliding mats or sand mounds in order not to damage the load become redundant!

Safe

The load can be stopped in any position and even from a safe distance: The user controls the turnover process by a remote control unit. For shapeless loads without rotational symmetry, the turnover units can also be actuated independently of each other. Covered belts and deflection sheaves prevent the belt from sliding through.

Turning units



Fast

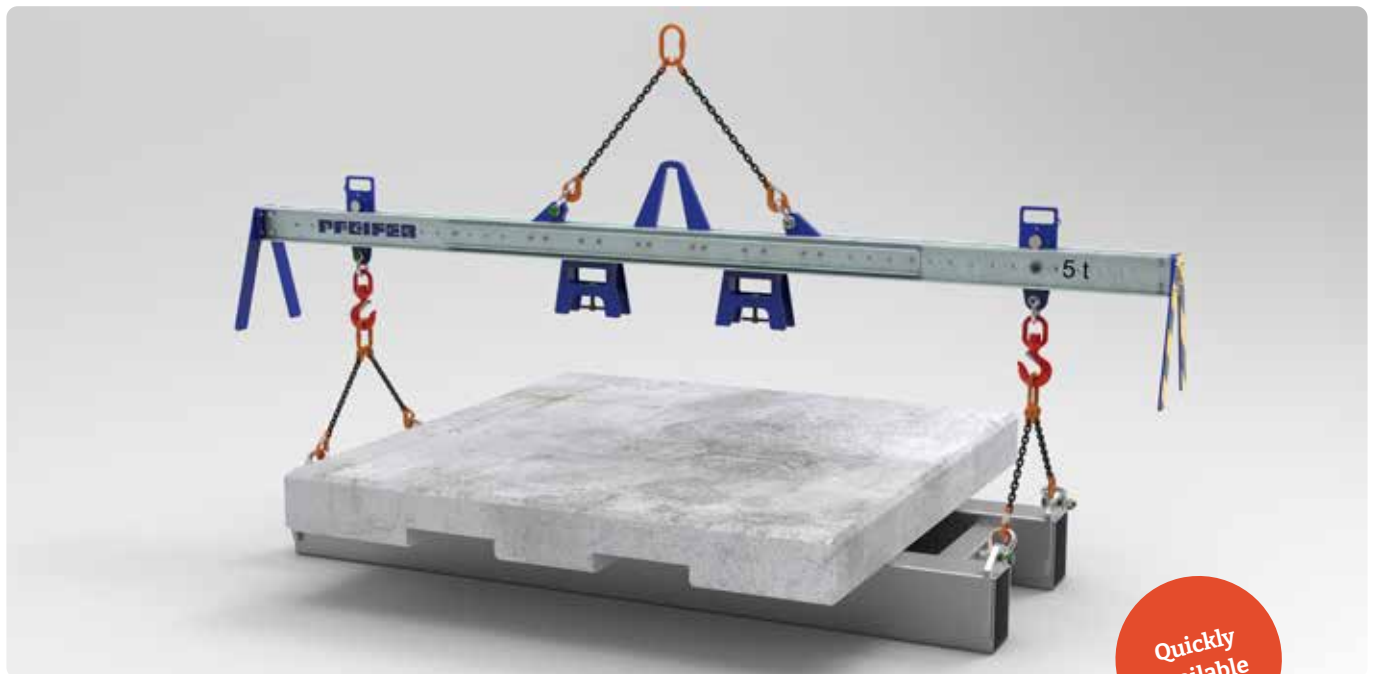
No more time-consuming preparations with frequently widespread cordoning the danger area. If the load fits the spreader beam, you can immediately start – mobile on each crane.



Spreader beams

Spreader beam system Alpha & Standard range

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.

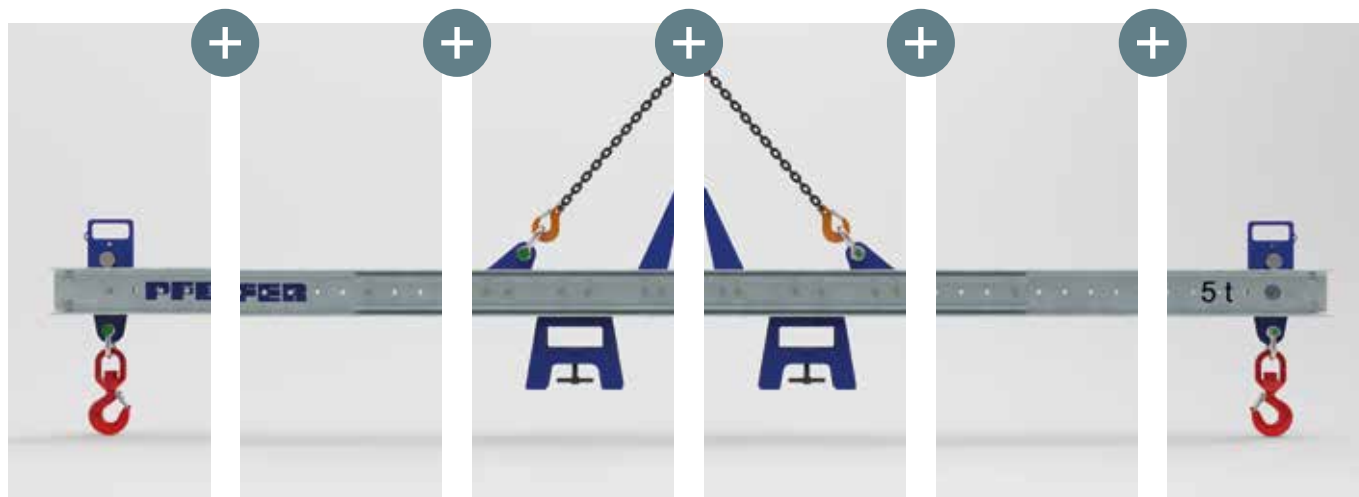


Quickly
available



Long loads
Loads with central
center of gravity





rigid
or
adjustable

1–20 t
load
capacity

1–6 m
working
length

1.6–25
crane
hook size

4
grid spacing

6
additional
options

Spreader beam system ALPHA

Modular system

The ideal combination for every requirement – rigid and adjustable versions that can also be used as H-beams!

Quickly available – ready for dispatch in 5 days!

Robust and durable

Galvanized profile design offers perfect all-round protection.

Flexible

thanks to many exchangeable and retrofittable options: Lifting lugs with load hooks, adjustment brackets, forklift pockets, set-down feet, suspension via 2-leg chain slings, etc.



Just try it out for yourself:
www.pfeifer.info/traverse





The position of the center of gravity

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

The crane hook and the load's center of gravity always form a vertical line. The greater the overall height and

the higher the load's attachment points are above the load's center of gravity, the more stable the spreader beam-load system is.

Tip: Spreader beams with 2-leg chain suspension hang most stable, as the chain increases the overall height!



Fork lift beam

Load attachment by **central, swivel-eye, safety load hook** (not for swivelling under load)

Safe

Locking system by two tommy screws with jointed clamping disks at the lower side prevent sliding from the prongs

Robust

Easy and well-established design at universal fields of application.

With set-down legs at the side for easy pickup by the fork lift prongs and safe and compact storage.



Adapter for fork arm

Load attachment by **swivel-eye, safety load hook** (for swivelling under load)

Safe

Locking system by tommy screw with jointed clamping disk at the side prevent sliding from the prong

Robust

Sturdy design from sectional steel in compact lightweight construction with welded prong gap.



Big Bag spreader beam

For fast and effective handling of big bags

Protective

Protects the big bag loops due to large radius of curvature

Robust

Sturdy cross spreader beam in hollow section design with front plates

Spreader beams

Special spreader beams

Spreader beams are indispensable tools for companies that need to move heavy loads safely and efficiently. They are products that pay off in the long term and can improve the productivity of your work. PFEIFER offers customized solutions to ensure that your spreader beam does just that – increase your productivity and do it safely!



Rotating spreader beam

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

Our rotating beams are designed to meet your exact requirements – there is no 'off the peg' production here.



Loads from A to Z



Long-hook spreader beam

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.



Double crane spreader beam

Coupling two cranes

As with a rotating spreader beam, two cranes can be coupled with a double crane spreader beam so that the load capacities are added together.

A single or double crane hook is used to take up the load in the middle. However, other load suspension options or attachment points are also possible!





Special spreader beams



Rigid or adjustable spreader beams
Perfect for long loads and loads with a central center of gravity

Spreader beam with cross beams
Ideal for transporting machines, steel mesh, precast concrete parts, tool molds, etc.



Lifting clamps

Vertical & horizontal clamps, protective clamps

Lifting clamps are real all-rounders when it comes to transporting heavy loads safely and efficiently. Their robust design and high load capacity make them indispensable heroes in the world of load transportation.

These handy helpers make lifting and moving metal sheets child's play and ensure that even the heaviest loads reach their destination effortlessly. With PFEIFER lifting clamps, every transport is safe, stable and always reliable!

3 year
warranty

5 years
free factory
inspection



Made in
Germany



Sheet metal
Steel plates
Stainless steel
Beams
Steel construction
elements
Wood
Plastic





Why a PFEIFER lifting clamp?

+ 50 years of experience

We score with 50 years of experience – both in the manufacture and application of lifting clamps. Here you will find the right clamp for every application.

+ “Made in Germany” – proven worldwide

Our high quality standard in production guarantees the reliable use of our lifting clamps. From Memmingen out into the big world!

+ Durable & robust

thanks to welded housing, hardened and tempered gripping elements

+ Spare parts at top prices

Individual spare parts sets are available for all lifting clamp models. This means that worn or defective components can be replaced cost-effectively and in line with the assembly group. And even years later (spare parts supply guaranteed for at least 10 years)!



Spare parts
guaranteed for at
least 10 years!





+ Long loads

For longer loads, we recommend the use of at least two clamps/grabs or to use a spreader beam.

+ Minimum weight

The weight of the load must correspond to at least 10 % of the specified load capacity of the lifting clamp (100 kg for a 1 t clamp).



Vertical clamps

Flexible and versatile with the KL or extremely robust and heavy with our G2:

Model KL – the versatile one

- for vertical lifting and turning through 180° up to an angle of 120° possible
- with gripping elements for stainless steel and extra hard sheets (from 300 HB)

Model G2 – the heavy-duty professional

- for vertical lifting and 90° turning up to 20 tons

Out of competition – safe lifting up to an angle of 120° possible!



Protective clamps

For surface-sensitive or very hard materials:

Model NM

- with large, smooth pressure plate
- Also available with stainless steel gripping elements!

Model SP

- with infinitely adjustable, specially coated gripping elements

Horizontal clamps

Safe with the M, economical with the HS or large with the WHS:

Model M – the safe one

- for inherently stable and thin, slightly sagging sheet metal and steel beams
- Safety mechanism with lock closed feature

Model HS – the inexpensive one

- for inherently stable sheets, sheet stacks and steel plates

Model WHS – the one with the large gripping range up to 406 mm

- for sheet metal and sheet stacks



Drums & Grabs

Drum handling equipment & Small grabs

The PFEIFER drum handling devices have proved successfully at our customers for many years and are suitable for all current applications. For the transport by crane hook or forklift truck, for handling upright or horizontally positioned drums, for steel or plastic drums - the suitable device for any application!



Drum handling equipment

For **metal or plastic drums** with bead

For **horizontal or vertical drums**

Designed as **grabs, clamps or clamping claw grippers**

Large gripping ranges

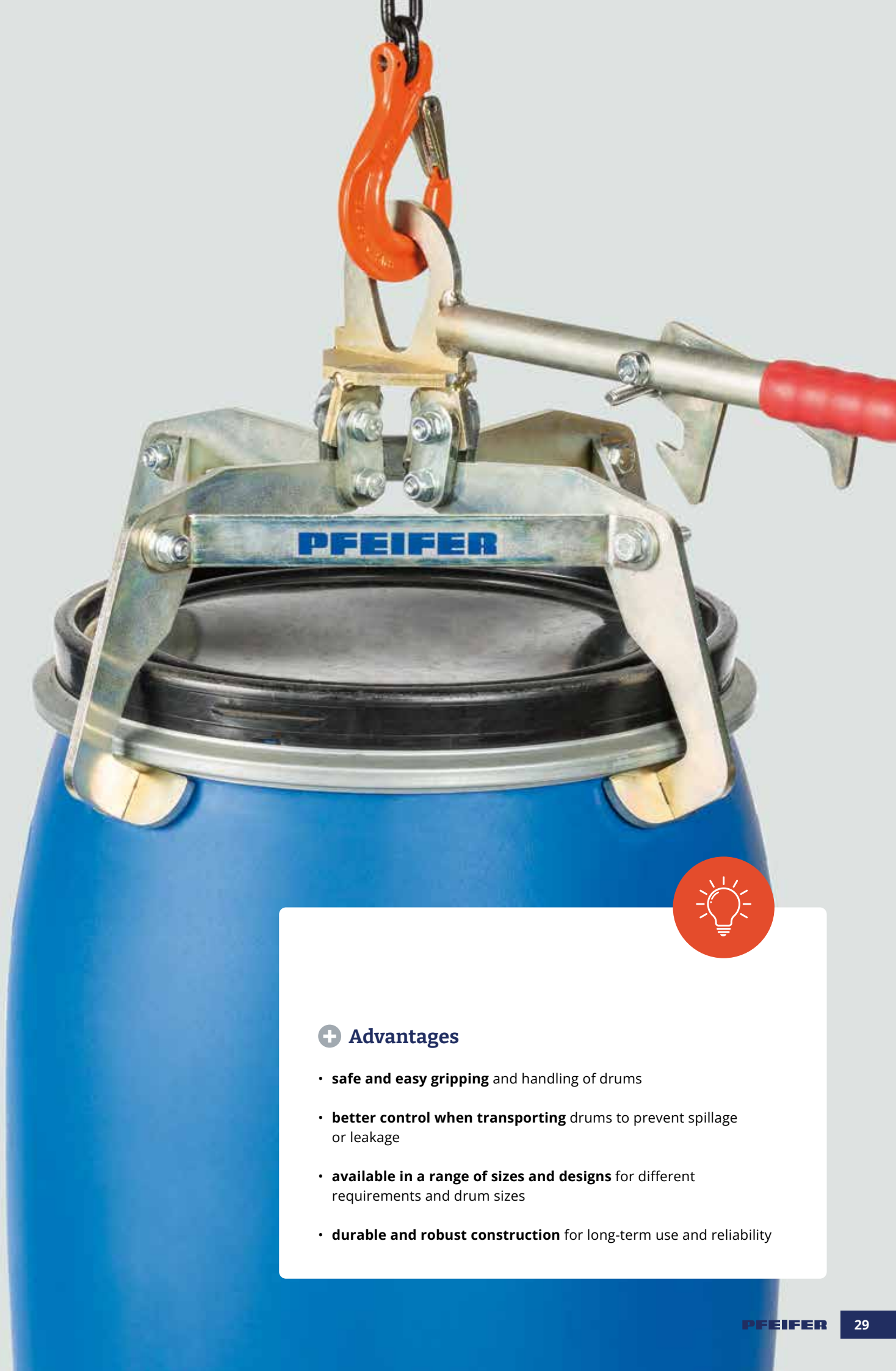
Easy handling due to low dead weight

Special design with hold-open lever or step-by-step system possible (depending on design)



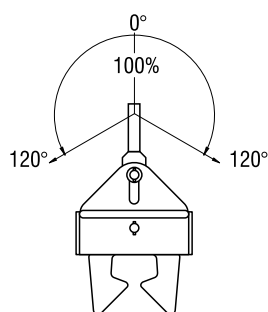
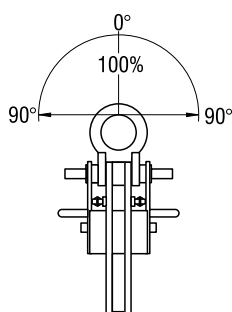
Steel drum
Plastic drum
Rails
Round materials





+ Advantages

- **safe and easy gripping** and handling of drums
- **better control when transporting** drums to prevent spillage or leakage
- **available in a range of sizes and designs** for different requirements and drum sizes
- **durable and robust construction** for long-term use and reliability



+ Long loads?

For longer rail or round profiles, we recommend using at least two clamps/grabs in a two-legged chain sling or to use a spreader beam.

+ Permissible angles?

All rail grab models are approved for diagonal pull of max. 90° and an inclination angle of 120° per side – without reduction in capacity!



Rail grab

For vignol, crane, tongue and grooved rails

Safety device with double function: for keeping open and as a locking device under load, to keep even tilting rails secure, i.e. the grippers cannot open unintentionally.

Hold-open device – lockable in open state



Automatic rail grab

The right one for lifting, longitudinal and transverse pulling of **vignole rails**

Safe and secure

Automatic locking of the grab after being positioned on the rail

For 49E1, 49E5, 60E1, 50E4, 50E6A2

Complies with TBG requirements

Round profile grab

For the horizontal transport of all types of **round materials**

Heavy-duty double-scissor design with safety latch.

Very small external footprint thanks to a new internal contour whose **4-point clamping** prevents the load from rocking.

Auto-latching 'hold open' lever, locking spring stirrup with handle to ensure against unintentional opening when the load is released



Crane equipment

Pulley blocks

The core of each crane facility – the pulley block! 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.

Advantages

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.



Lifting devices Attachment devices





+ Hook safety catch – a must-have?

Yes, hook safety catches are prescribed by the UVV. However, it is often not so easy to operate when hooking and unhooking because loads make it difficult to reach the load hook. Electro-mechanically operated hook safety catches are simpler and, above all, safer for the user.

+ Limited slewing range is important for lifting devices

If lifting devices with an electrical power cable are to be attached, a fixed plug connection is not advisable as this does not allow any rotation. In this case, either a limitation of the slewing gear or an integrated slip ring assembly for energy and data transmission is absolutely essential!

+ Many product options

- Unlimited slewing range
- Electromechanical hook safety catch
- Frequency inverter for soft start
- Battery operation
- Integrated weighing device
- Plug-in connection for lifting devices

... according to your requirements and wishes!

You can rely on our solutions. Even before and after lifting operations.

Our service does not end after lifting – we provide professional storage, support you during commissioning and train you in its use if required.



**Find out more about reliable lifting technology
from PFEIFER**



And follow us:





PFEIFER

PFEIFER Seil- und Hebetechnik GmbH

Dr.-Karl-Lenz-Strasse 66
87700 Memmingen

Tel. +49 8331 937-627
hebetechnik@pfeifer.de

www.pfeifer.info

Smart Lifting

Product overview
Lifting technology



PFEIFER

