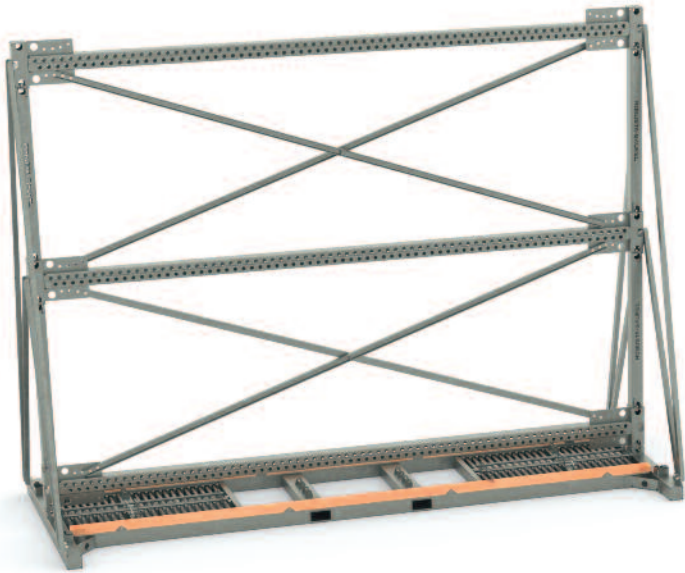


# ROBUSTA COMPACT

Extract of our delivery programme



For more see page 45!



**ROBUSTA**  
GAUKEL



### **THE SPECIALIST FOR INDIVIDUAL CONSTRUCTION SITE SOLUTIONS!**

Since 1965, the name ROBUSTA has stood for sophisticated products that withstand the rigors of use on construction sites around the world.

The focus is developing innovative products to optimize construction processes and improve safety on site.

As a specialist for assembly, anchoring, safety technology and formwork as well as sophisticated special solutions, constant new developments as well as individual and practical solutions to problems are given high priority.

Experienced engineers and structural engineers are on hand with their extensive expertise.

Thanks to state-of-the-art production, we are now able to manufacture almost all of our products ourselves, enabling us to respond even more flexibly and quickly to the high demands of our customers.

State-of-the-art production technology such as welding robots, laser cutting systems, CNC machines as well as a powerful pipe laser system, in conjunction with the know-how of our employees, guarantee consistently high quality.

Almost the entire product range is also available for rent. With our branch office in Berlin we are also on site in the capital as well as in the new federal states for all construction challenges. Our clientele includes numerous well-known European construction companies and groups.

For more information, please visit [www.robusta-gaukel.com](http://www.robusta-gaukel.com).





## 1 Anchoring technology



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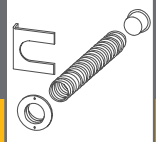


### Customer Portal ROBUSTA+

Construction sites quickly in view! ..... 45







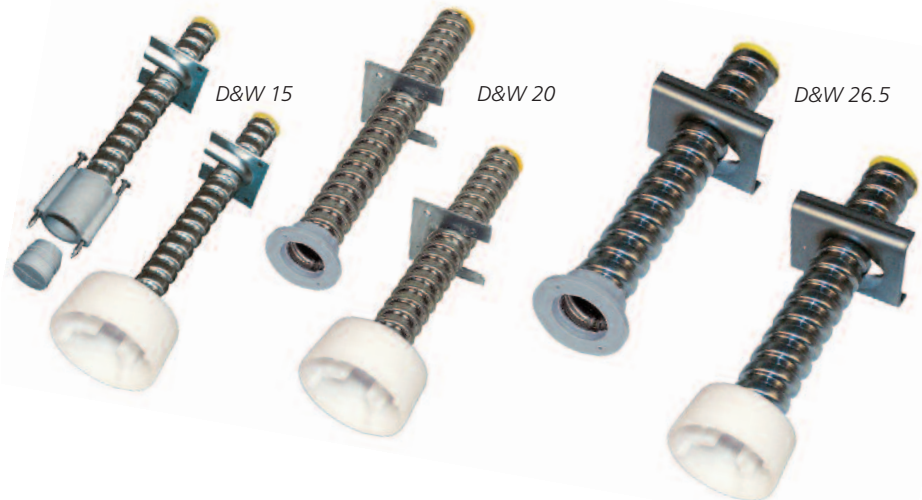
## Your benefits at a glance:

- Proven a million times over
- Inexpensive, non-recoverable installation parts
- Universal system for fixing anchor tie bars for formwork and bolts for fastening and transportation purposes
- Can be installed in slabs, base plates and walls
- For in-situ concrete and construction with precast components
- 4 different anchor diameters available from Ø 15.0 mm to Ø 36.0 mm in conformity with the Dywidag formwork anchoring system
- Larger Ø 50 and Ø 60 mm sizes can be supplied with special bolts for transporting tunnel segments
- Anchor sleeve lengths (infinitely variable) tailored to structural dimensions
- Permissible service loads from 5.0 kN to 60.0 kN
- Comprehensive selection of hexagonal and transport bolts

ROBUSTA threaded sleeves have been known and trusted for many years and help to save money on anchoring systems on construction sites.

Four different diameters are available. Lengths can be designed so as to fit the installation situation and permissible loads.

With our anchoring accessories such as threaded rods, hexagonal bolts and transport bolts, there are practically no limits to the possible applications.

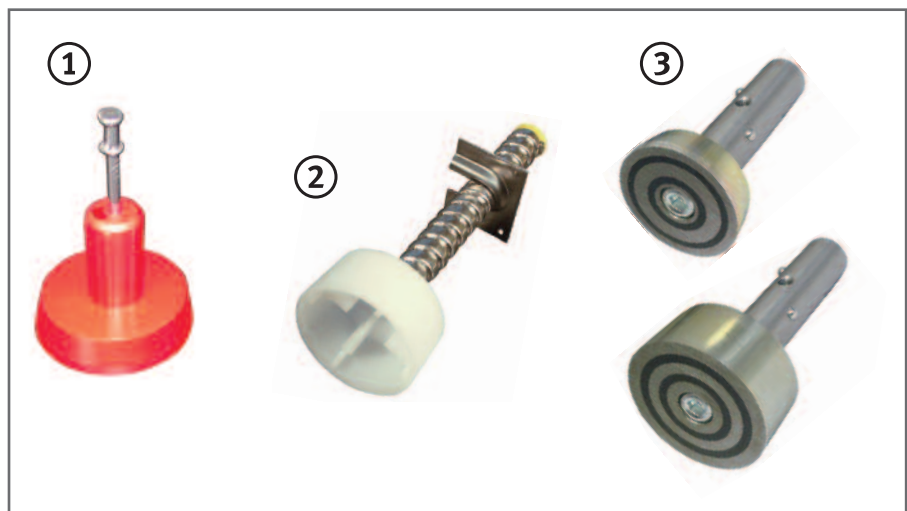


## Horizontal installation:

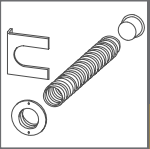
**The variable fastening system for all protection at the edge of the ceiling!**

Different clamping flanges for fair face concrete requirements:

- ① Clamping flange with double-headed nail for wooden shuttering, recoverable, concrete cover 15 mm
- ② Clamping flange for wooden shuttering, recoverable, with concrete cover 30 mm
- ③ Magnetic clamping flange for steel shuttering, 3 different sizes, with concrete cover 15 or 30 mm







### Horizontal installation D&W 26.5 mm for high tensile forces, anchoring system for fixing of our working platforms

With sleeve diameter D&W 26.5 mm we offer an extremely economical anchoring sleeve for support scaffolds. In combination with suspension shoe and fitting screw anchoring is easy and safe. Especially in the case of major construction projects involving several thousand lost anchors, the cost advantage has proven itself over and over again. Variable lengths, threaded plates and fitting accessories guarantee a perfect anchoring system.



Standard-clamping flange

Recoverable clamping flange for perfect results of fair face concrete surface



Approval-No. Z-21.6-1744

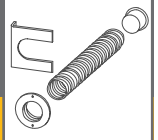
**PROS:**  
Integrate anchoring points during at planning stages!



# 1

## ANCHORING TECHNOLOGY

### ANCHORING SYSTEMS FOR DIFFERENT FIXING PURPOSES



#### Horizontal installation with vertical positioner: Easy mounting of anchoring points D&W 15 und D&W 20 mm without drilling!

The **vertical positioner** is made of solid plastic that is easily fastened with wire tie to the reinforcement.

The mounting is easy and quick.

The threaded sleeve with marking plugs guarantees, that the anchoring point after concreting and smoothing the concrete surface is easy to discover again.

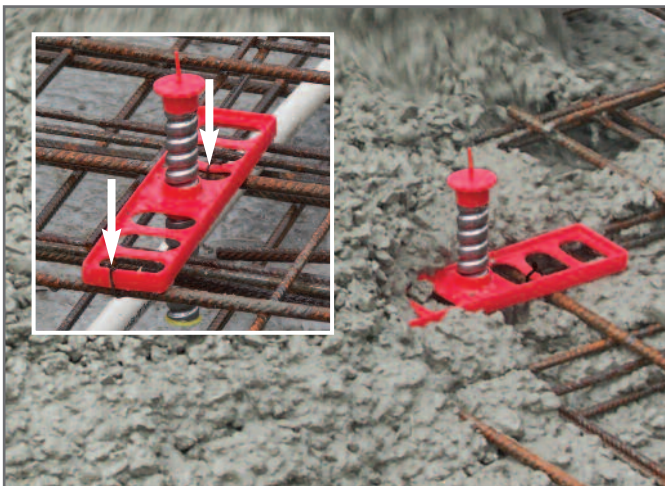
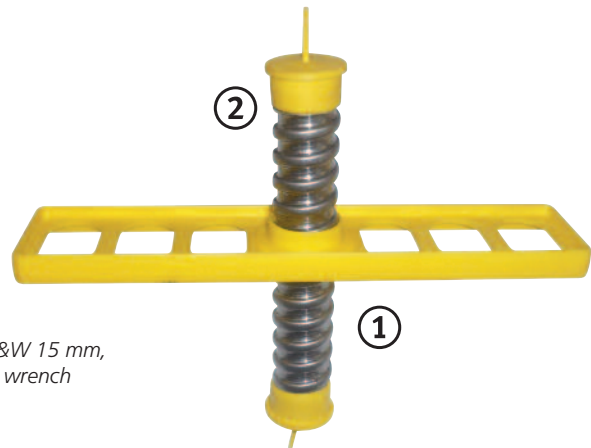
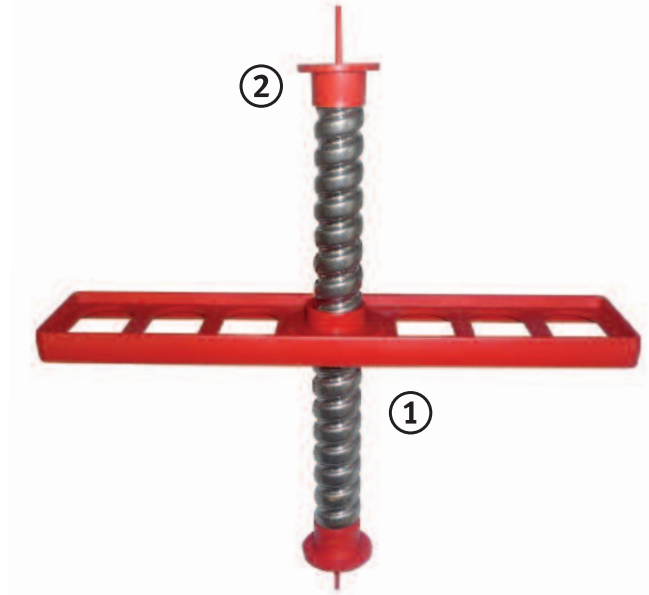
- ① Vertical positioner, easy fastening to the reinforcement with wire tie
- ② Marking plug with flexible pin, easy discovering of the anchoring point by the flexible pin of the marking plug after concreting

#### Special advantage:

With the vertical positioner a perfect vertical position of sleeve is guaranteed.



Hexagonal bolt D&W 15 mm,  
Fixing with impact wrench possible

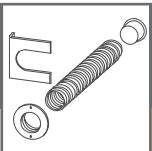


The sleeve can be screwed after mounting. Therefore the upper edge of the plug is adjustable in height and can so be used as a level marker for the concrete.

Avoiding of dangerous drilling in slabs with a huge number of cables and pipe ducs. Anchoring points can be planned and placed into correct and absolutely vertical position before concreting.







# ANCHORING TECHNOLOGY

# 1

## ANCHORING SYSTEMS FOR DIFFERENT FIXING PURPOSES

### Screw-in set

Wide range applicable bolt with nut, which makes you independent in multiple ways:

**User defined clamping thickness**, regardless of clamping a steel plate with 5 mm or a planking with 5 cm thickness.

**User defined screwing depth**, regardless of screwing the bolt into the dowel 35 mm or into the threaded sleeve 100 mm.

**User defined hole diameter** between 17 and 30 mm, the tightening of the conical shaped nut guarantees automatically a centering without any tolerance in the middle of the hole. A shifting is not possible.

**Tightening without any special tool**, second screw-in set is enough.

**No additional costs** for adapter sleeves or washers.

- ① Shaping of screw-head as clevis for using as tool for second screw-in set
- ② Conical shaped nut guarantees automatically a centering without any tolerances, shifting is not possible

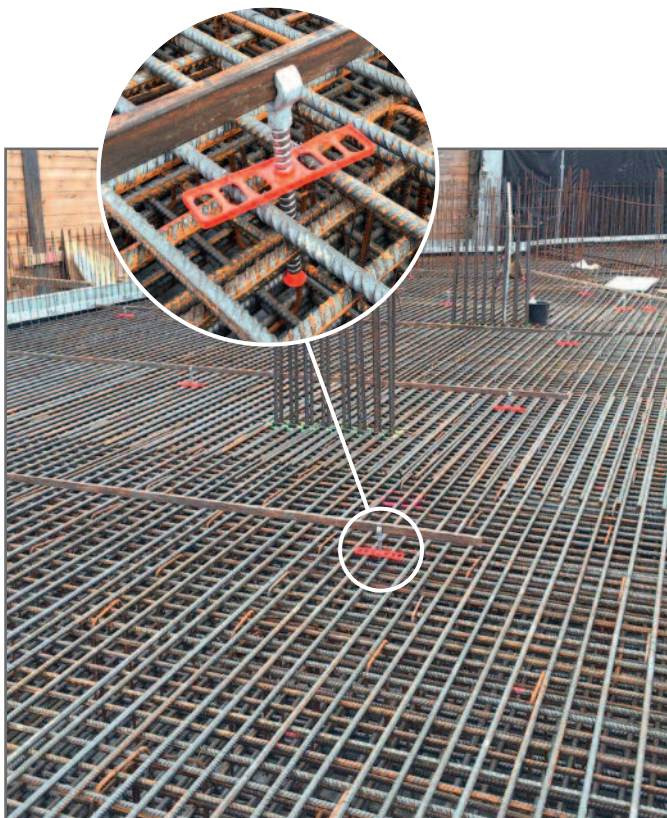


### Vertical installation in combination with screw-in set: Perfect helper for gauges for slabs with downward slopes

Installation-kits with vertical positioner, together with screw-inset, are the perfect helper as gauges for slabs with downward slopes.

Especially in buildings with multiple slopes in different directions, for example in underground garages and buildings with side wings. The screw-in set without hexagon nut is screwed as deep as necessary into the threaded sleeve until the correct level is adjusted. After that a rectangular steel tube is placed into the upper opening of the bolt. This tube is then the gauge for smoothing the surface level of the fresh concrete.

After finishing the concrete works, the rectangular tubes and the bolts can be removed from the soft concrete and the small remaining holes are then filled with concrete.



**PROS:**  
Order additional screw-in sets as working tool!

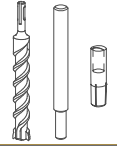




# 1

## ANCHORING TECHNOLOGY

### IMPACT DOWEL AND SCREW-IN SET



#### Your benefits at a glance:

- Can be utilised in all cases for fixing anchor tie bars retrospectively
- Infinitely variable screw-in depth and clamping thickness
- For fixing formwork in in-situ concrete construction work
- Screw-in set as accessory for fastening purposes when assembling precast components as well as for fixing formwork and / or formwork supports for in-situ concrete
- Approved load ratings determined for a 15 N/mm<sup>2</sup> low concrete strength
- Breaking forces tested and documented by an official testing institute
- Inexpensive solution in all cases where a larger concrete anchor is not necessary

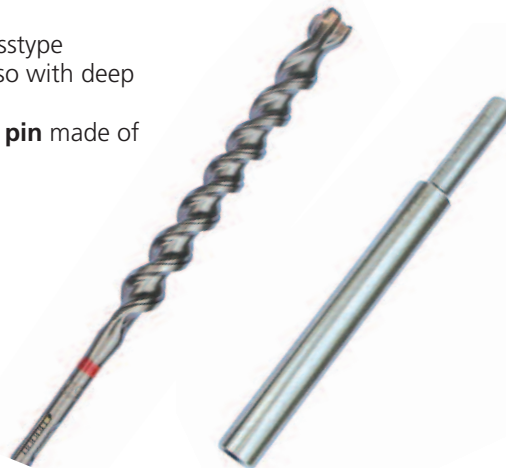


#### For easy mounting:

#### Hard metal drill and punching pin – fixing with screw-in set

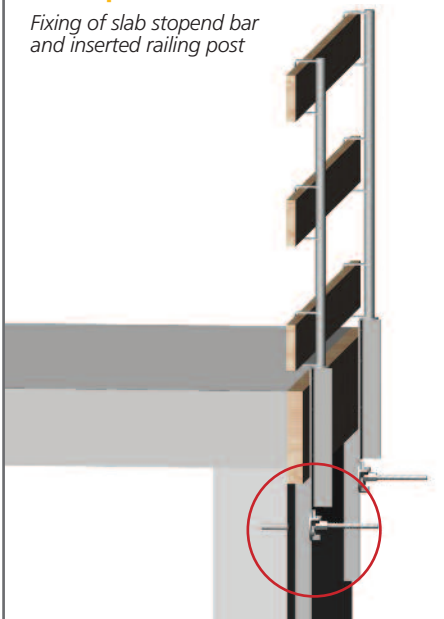
The **hard metal drill** with SDS detection and crosstype cutting guarantees a constant boring diameter also with deep borings.

The installed dowel will be spread with **punching pin** made of tempered steel.

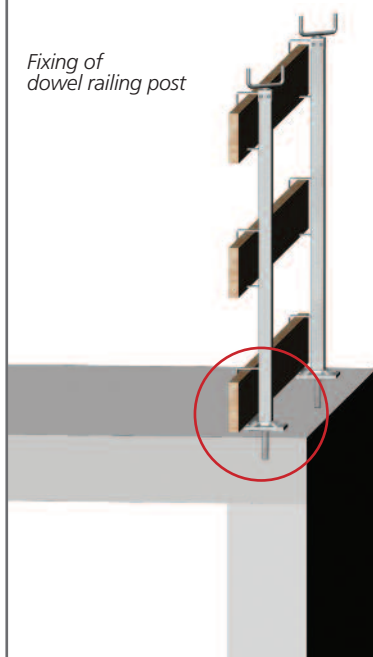


#### Examples for use:

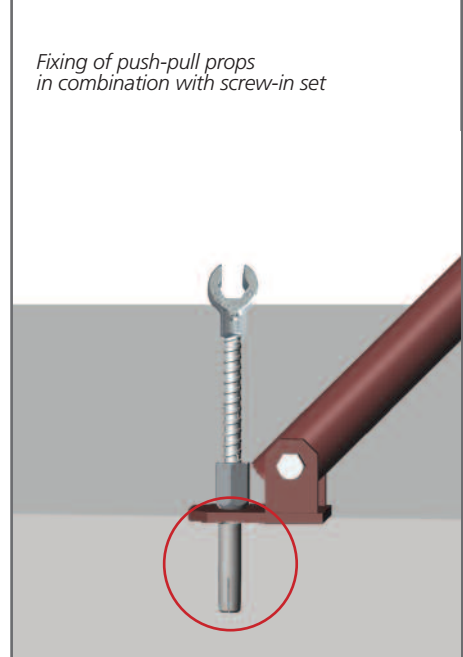
*Fixing of slab stopend bar and inserted railing post*

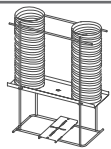


*Fixing of dowel railing post*



*Fixing of push-pull props in combination with screw-in set*





### Your benefits at a glance:

- For anchoring all types of steel structures, high-rack systems, machines and concrete components
- With general building authority approval
- Anchoring proved in practice for tie bars with centimeter tolerances in concrete construction work and millimeter tolerances in steel
- Up-to-date force transmission using a shear force interlocking system; no cumbersome traversing anchor bars.
- No costly welding jobs necessary
- Permissible service loads from 15 kN to 400 kN per anchor bar
- Rapid installation in a double or multiple set
- Great level of installation safety due to complete accessory package for right assembly
- All necessary individual components from one source

Approval C2 for seismic areas now officially granted!



### Perfect link between coarser concrete and precise steel construction! Installation tolerance up to 10 cm!

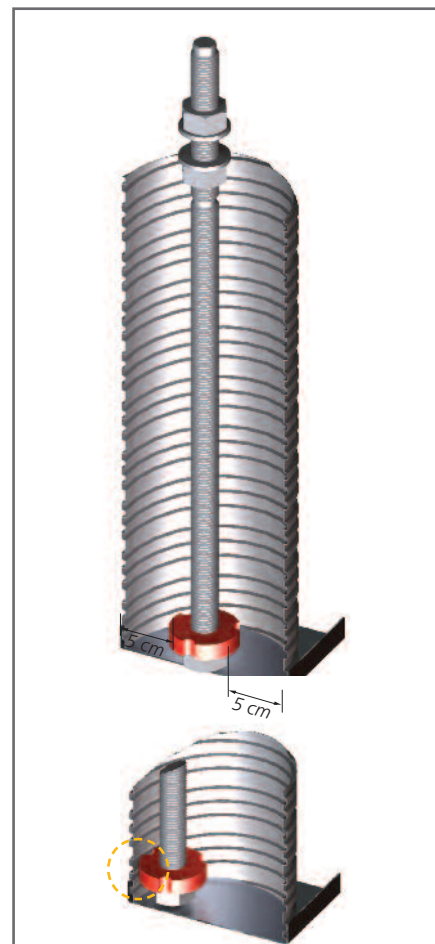
With these inexpensive **ROBUSTA Anchoring Sets** we offer a practical, safe anchoring system.

The first step is to concrete corrugated tube sheaths into a base plate or foundation. In this process installation tolerances of up to 10 cm have been possible in practice! Only once the shell construction work has been completed are the anchor bars precisely measured with the anchoring plates and cast in the tubes.

The tube and anchor plate dimensions are harmonised with each other in such a way that lateral play of +/- 1.5 cm or more remains.

Improvisation can be avoided at a construction site since the complete supply package is from one source, including all necessary installation aids and templates, identifiers and grout for casting. Time consuming template supports which are built on-site are unnecessary. Please get in contact with us for thorough planning.

We will be delighted to advise you.



When the anchor plate sits close to the tube, the indents guarantee a safe enclosure of the plate with the anchor mortar.

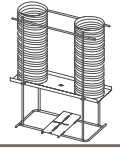




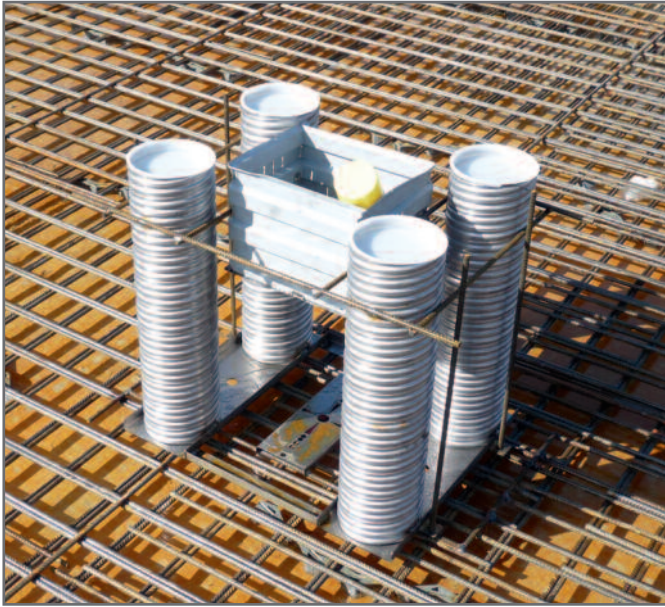
# 1

## ANCHORING TECHNOLOGY

### ANCHORING SET FOR FOUNDATIONS



**Installation in concrete construction:  
Easy handling – continuous height adjustable with mounting frame**

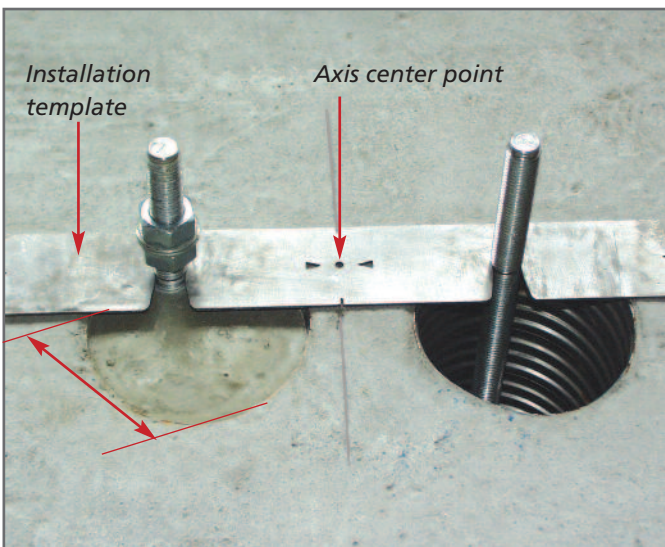


*Fixing of the frame with binding wire to the bottom layer.*



*Fixing the anchoring set to the vertical pins of the frame after adjusting the correct height. This can be carried out before or after the setting of the top layer.*

**Installation in steel construction:  
Easy positioning of anchor bars with installation plate!**



*large tolerance possible up to 10 cm*

*After producing the bottom plate or the foundation the axis of the steel construction can be marked exactly on the clean and even concrete surface next to the tubes.*



*Grouting the anchor bars*

**PROS:**  
Download for free:  
measuring  
programme  
**DIMENSIONS**  
on our website





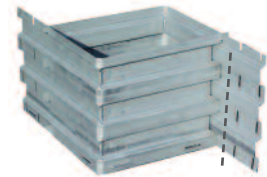


### Your benefits at a glance:

- Non-recoverable formwork for creating slab openings economically
- Can be mounted and fixed to the formwork in less than a minute!
- No troublesome measuring and cutting wooden shuttering panels
- Galvanized sheet metal; the formwork box remains in the concrete; no formwork stripping necessary!
- No wood waste any more; no more expensive disposal!
- The trapezoidal profile guarantees secure bonding with the mortar – no need for time-consuming reinforcement connections!
- Space-saving transport and storage thanks to L brackets set into each other
- Special versions for specific individual dimensions can be delivered rapidly
- Fire safety assessment for F90 available



Individual elements, mounted on-site



Stacked out in size 20 x 15 cm



Stacked out in size 20 x 20 cm



Stacked out in size 20 x 25 cm

### Easy and quick installation at filigree slabs and timber forms No tiresome removal after concreting!

#### On filigree slabs:



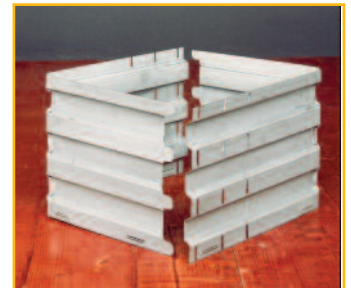
The casings are simply fastened onto the slab with wire ties to the reinforcement.



The L-elements are delivered individually and are ready for use in no time at all.

**PROS:**  
Special sizes up to 150 mm edge length available on request!

#### On the timber form:



The casing is nailed directly onto the timber form with nail plates.



No tiresome from removal.



# 2

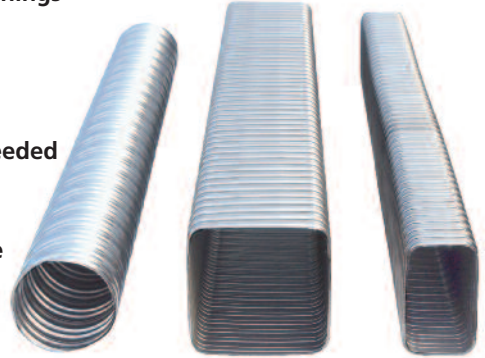
## CASINGS FOR CUT-OUTS

### NON-RECOVERABLE CASINGS: RECESS TUBES



#### Your benefits at a glance:

- Non-recoverable formwork for inexpensively creating recesses and openings for supply lines in beams and slabs
- Standard dimensions of the round tubes: Ø 40 mm up to 1.000 mm; quadratic tubing 58 x 58 mm up to 200 x 200 mm
- Supply length 5 m (stock length) and in specific lengths according to customer request sawed ready to install – also with angled cuts if needed
- Any transportable length available on request
- Round tubes with profiles both on the inside and out, giving a perfect shearing bond and great mechanical strength against concrete pressure
- Low weight and easy handling
- Fasteners for steel and wooden formwork can be supplied
- Also for mast foundations and anchoring machines (excluding quadratic and square tubes)



#### Durable and economical alternative for creating openings: Avoiding of improvised wooden constructions!

##### Round tubes for cut-outs:

Because the tubes are delivered ready for installation, the costs for the formwork will be reduced enormously on site. Encasing with a lot of effort and the disposal of wooden remains is not necessary. Hot galvanized tubes are available if there is danger of corrosion. Internal and external sockets for coupling are available to join tubes on site.

##### Diverse accessories:

##### Plastic closings in many variations

For closing off ends of tubes, with or without flange, reusable. If the cover must be solid enough to walk on, it is also available as a sheet metal cover.

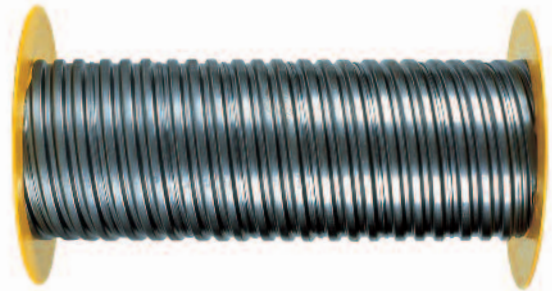
For a hold on both sides of the wall and girder the tube is safe from uplift and moving.

##### Rubber spanner:

Tube fixture to steel formwork in prefab element plants.

##### Rectangle and quadratic tubes:

Production as profiled band steel. Hot galvanized tubes are available if there is danger of corrosion. Available in rectangle or quadratic variation.

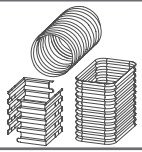


##### Attention:

The quadratic and rectangular tubes are not profiled on the inside. Hence, a shearing bond as with round tubes between grout and surrounding concrete is not possible! Therefore these kinds of tubes are not suitable for anchoring traction loads.







### Your benefits at a glance:

- Non-recoverable formwork for economically creating recesses for sleeve and block foundations – supplied ready to install
- With a trapezoid profile  $t = 2\text{ cm}$  for the safe structural transmission of punching shear forces by means of a shear interlocking system with block foundations
- With a corrugated profile for joints with sleeve foundations
- Dimensions from 200 x 200 mm up to 1,500 x 1,500 mm side lengths; all measurements in between are manufactured to order
- Can be supplied with a spot-welded sheet metal base
- Space-saving and inexpensive to transport as the sleeve is foldable
- Special versions for anchor bars etc. on request
- Also suitable as a large slab opening (F90 standard)



### Durable and economical alternative for creating openings: Avoiding of improvised wooden constructions!

#### Trapezoidal casing for block foundations

With modern block foundations, the non-recoverable casing will already be integrated to foundation for producing a cavity. The vertical loads of the columns have to be supported by friction and shear serration. In this case, a trapezoidal profiling of the cut-out casing is best suitable.

The trapezoidal profile satisfies highest demands of the joint-serration according to DIN1045-1 (July 2001), so after determining the surface finish the coefficient of roughness may be selected from  $\beta_{ct} = 2.4$  and  $m = 1.0$ .

#### Foldable casings

Because of a special punching technique the delivery as foldable cut-out casings in folded out tabular form is possible. With this possibility, we offer an interesting and economical solution.

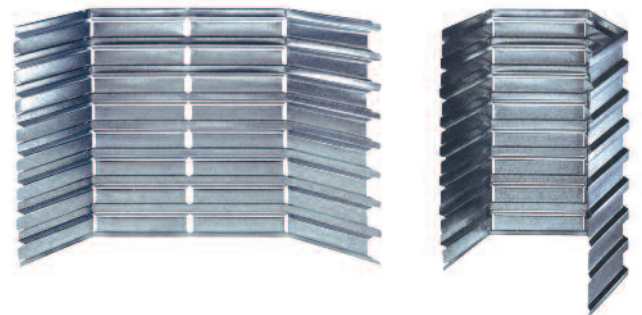
Because of the extreme reduction of the transport volume you will save transport and storing costs.

Unwinded metal sheets are easily and quickly folded on the building site, and closed at the open corner by bending the metal plates jutting out. At a lateral length of more than 600 mm, a stiffening is necessary.

#### Casing with wave shaping

At this type of foundation, the foundation block is concreted in a second pour. The profile does not serve as a shearing force transmission but only for the production of a "rough joint".

To produce the foundation in two steps we recommend to order the casing without base approx. 3 – 5 cm longer, the material jutting out will be pressed into the green concrete of the first pour.



#### Important when ordering all Casings:

Please ensure that the external dimensions of trapezoidal sockets are 4 cm larger than the internal dimensions.

Please specify the clear internal dimensions in millimeters.

When planning the stir-up reinforcement, observe the outer dimensions to the sockets.

**Important:** Careful grouting of the joint between the sleeve wall and the precast element with shrinkage-free grouting material.







## Your benefits at a glance:

- No resting parts in the concrete
- No spots of rust
- Very stable construction
- Quick non-destructive removing
- Regainable and reusable casing for multiple use
- No annoying nailing on of plastic lids or other auxiliary constructions
- Simple fixing with centric nut
- Rubber lips for sealing against the formwork, thereby also clean, chamfered edges
- Loosening of the wedge segment with a few hammer blows
- Easy dismantling of casing
- Round diameters from 20 to 80 cm realisable
- Square tubes also available, from 15 cm edge length

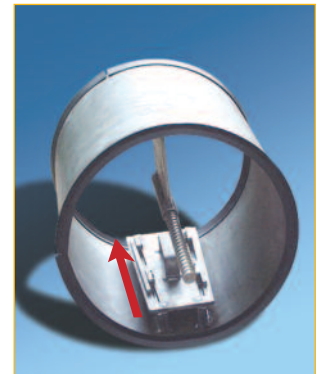


**High efficiency with several identical breakthroughs**  
**Perfect concrete cover after removing!**



Easy use when concreting girders: the flex-forming tube can be drawn out after loosening the wedge segment.

### Mounting:



For the installation at the lateral vertical shuttering, the Flex tube must be pushed over the anchor-tie-bar with the help of the center sleeve and must be fastened with a wing nut.

After installing the reinforcement, the closing shuttering can be placed.

To remove the shuttering, the wedge segment will be moved after taking off the side shuttering, this way the tube will shrink on all sides and will loosen of the concrete.

After removing and taking off the sealing rubber, the tube can be cleaned.

After spraying with a concrete parting compound it will be ready for subsequent uses.





### Your benefits at a glance:

- No improvisation with complicated wooden formwork required
- Simple, stable and economical solution for window and door cut-outs
- No additional effort by expanding the wooden formwork
- No lost parts, suitable for multiple use with constant quality
- Less construction waste
- Can also be produced shrinkable on request for easier use

### Formwork that pays for itself quickly!

### Faster shuttering and striking times – also good for high spaces

Even large construction projects are designed according to the architect's wishes more and more individual.

Only in exceptional cases will the buildings still be in the Masonry construction erected, concrete facades always set more through and the dimensions of windows and doors give way more and more from the old norms.

To meet these requirements, we constructed steel frames for the cut-outs of windows and doors.

We manufacture them in our own production according to your specifications.

Some of these cut-outs have already been used many times and have proven themselves through consistent quality.

We are happy to deliver the steel frames in shrinkable form version for fast and economical use.

We look forward to your enquiry!



*Steel frame, all sides formed conical*



*Example for shrinkable steel frame*



**PROS:**  
Special sizes and variations available on request!







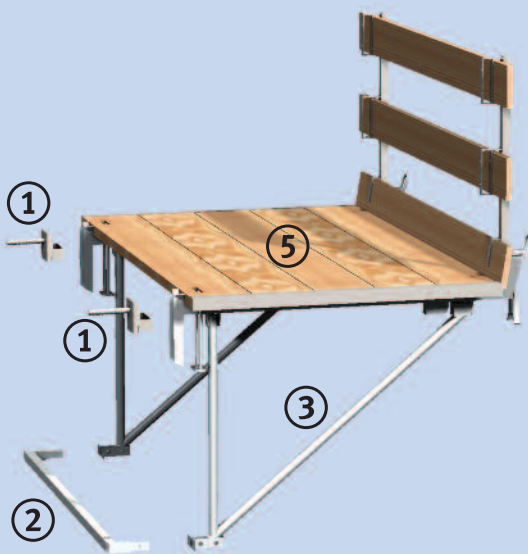
## Your benefits at a glance:

- Can be utilised as working or protective scaffolding
- Can be utilised to support wall formwork
- Standard platform lengths: 1.50 m – 2.00 m – 2.50 m – 3.00 m
- Right-hand and left-hand corner platforms can be supplied
- Corner platforms can be used with both inside and outside corners
- Universal corner platform for restricted conditions
- Tread width: 1.50 m; wooden parts made from timber grades customary in trade
- Platform can be raised unproblematically without other accessories
- All steel components are galvanised for a long service life
- Approved to load class 5 according to DIN EN 12811-1 (corresponds to 450 kg/m<sup>2</sup>)
- Delivered with the appropriate plug-in railing for ensuring stability and maintaining the correct distance from the wall

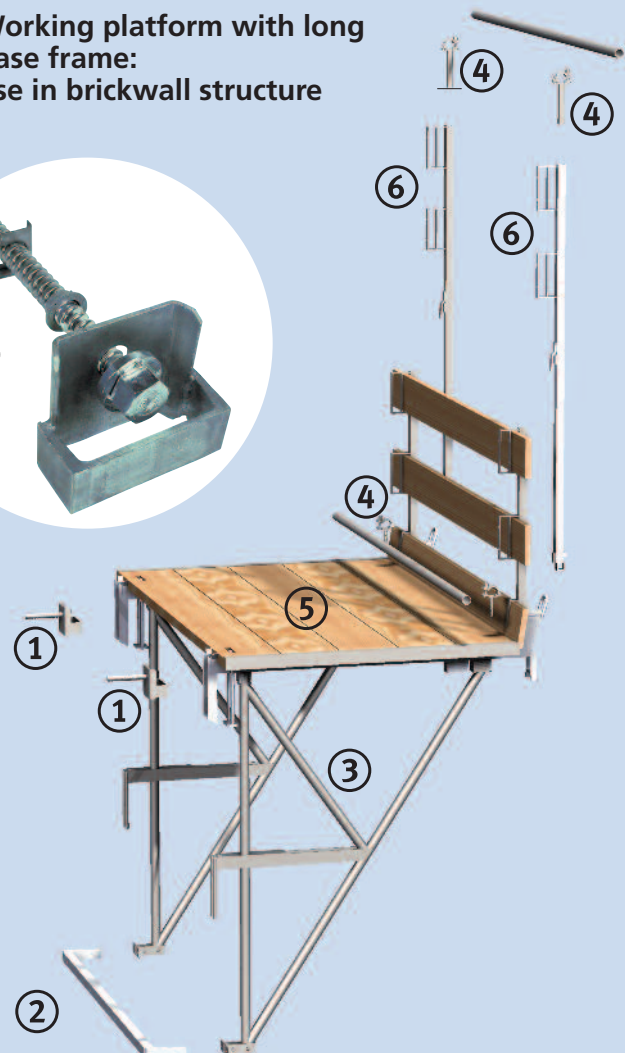
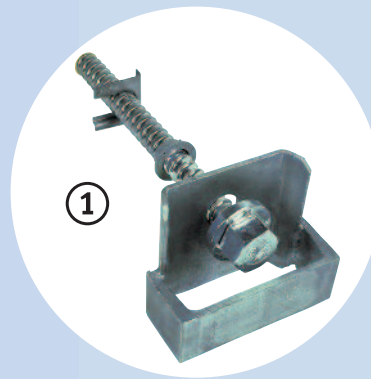
**PROS:**  
For more information  
of anchoring, variable  
accessories and more  
special platforms please  
inform yourself  
in our catalogue!

## Working platform system DIN EN 12811 – applicable for concrete as well as masonry construction!

### Working platform with short base frame: use in concrete construction



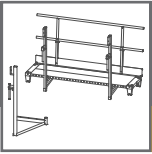
### Working platform with long base frame: use in brickwall structure



- ① Suspension shoe
- ② Insertion rail
- ③ Fold-up bases
- ④ Tube connections for protection nets
- ⑤ Standardised slabboards, easy to replace
- ⑥ Attachable extension girder







### Your benefits at a glance:

- Serves as temporary scaffolding to be able to stand safely without danger of falling when installing concrete
- Dangerously standing or walking on narrow concrete formwork or on ladders is unneeded, along with other improvisations
- Can be fixed without concreting anchors in; no prior planning needed
- Rapid mounting and dismantling due to handy individual parts
- Plug-in railings can be inserted easily for fall heights above 2 m

### Concreting bracket for twin walls with inserted railing post – Seamlessly secured during all work steps!

With the use of the bracket, you can produce on the spot a safe and simple base with back protection.

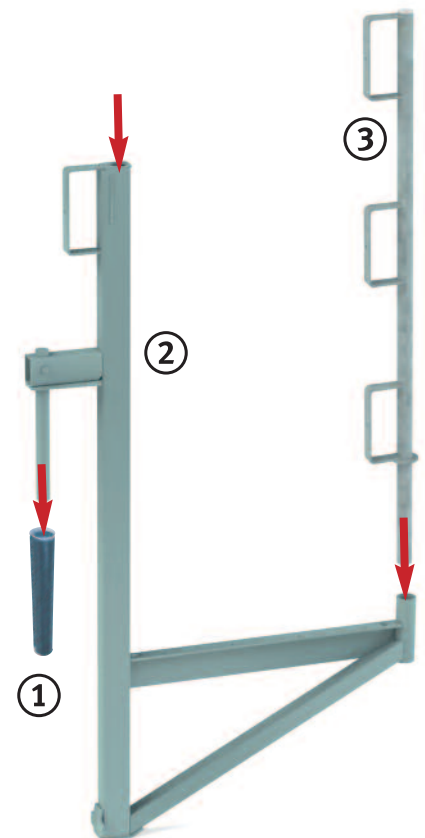
For a safe and comfortable work the base is placed approx. 50 cm underneath the upper wall edge.

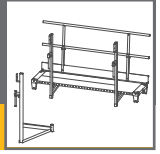
The bracket for twin walls can be attached to any spot with the hang-in core into the gap of the element wall. A plastic tube will protect the core against concreting and contaminating, the pulling out of the core off the hardened concrete is possible without any problem.

#### Special advantage of hanging at the external panel:

After concreting the base slab and dismantling of bracket the railing post can be inserted to the installation kit immediately, that means: **security during each construction phase!**

- ① Installation-kit with special plastic plug, this is pushed onto the suspension mandrel, then the cavity wall concreting bracket is suspended before concreting. After concreting, the installation-kit remains as a receptacle for the inserted railing post.
- ② Hollow wall concreting bracket with additional top receptacle for the inserted railing post
- ③ Inserted railing post





### Working platform completely made of steel, hot galvanized for long life, consoles foldable for storage and transport, back wall insertable

The working platform for twin walls has been developed from the already well established single brackets. On site a complete working platform is available immediately ready for use, the laying of slab timbers on site is no longer necessary.

The practical folding mechanism guarantees a simple and secure installation and avoids mounting mistakes.

When lifted with the crane for approx. 1 meter, both brackets will be set upright and with both inserted side rail posts it is secured against folding to the side.

After inserting the 3 side security boards a functional working platform is available.

The length of platform with 2.40 m and the folding mechanism allows an optimum use of truck width for a maximum reduction of transportation costs.

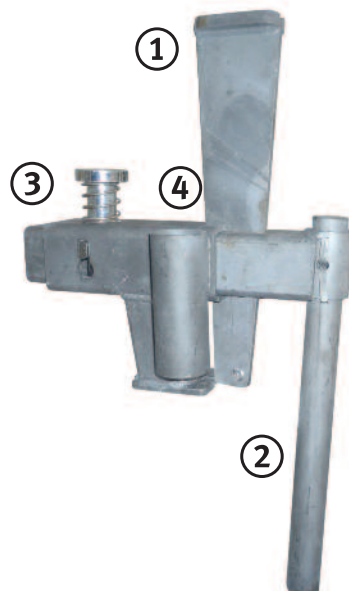
- ① Consoles, foldable
- ② Non-slip stable floor surface
- ③ Back wall, insertable
- ④ Inserting pins



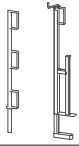
### Clamp for twin walls with inserted railing post Safe and quick use for all applications

A simple solution for a quick mounting of the edge protection at twin walls during armoring works and concreting of slabs. Also for the clamp for twin walls the plastic installation kit has to be used.

- ① Lose wedge for mounting/dismounting
- ② Inserting Pin
- ③ Flexible pin for gentle dismantling
- ④ Socket for inserted railing post





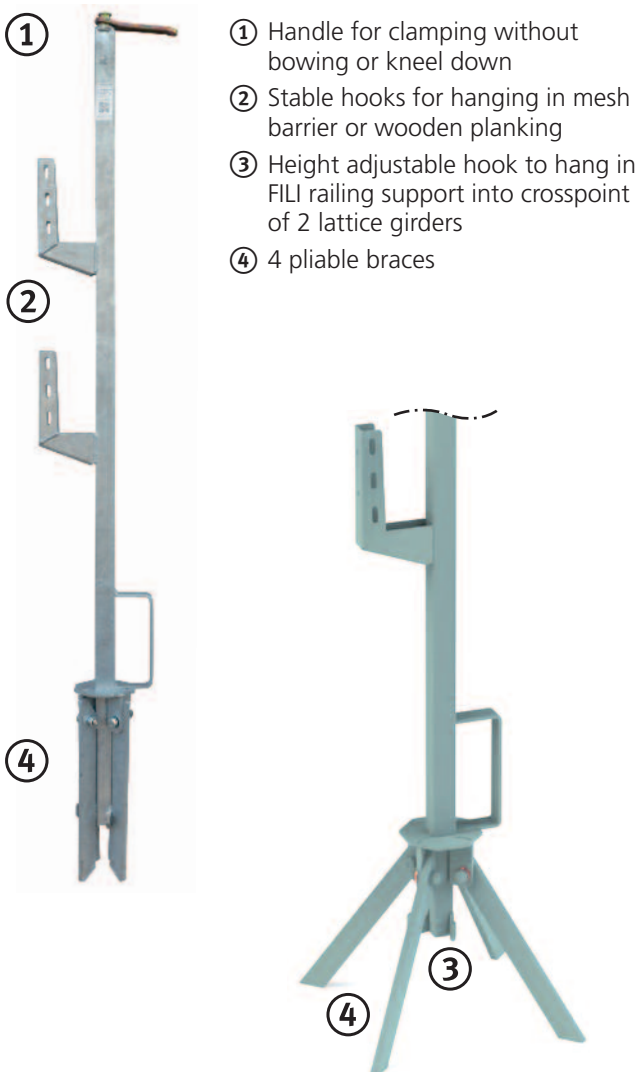


### Your benefits at a glance:

- For creating a secure barrier to be able to work in safety near open slab edges
- All railing posts and accessories are galvanized for a long service life
- Post intervals max. 2.00 m with side protection boards 15 x 3 cm
- Closed stirrup to prevent the side protection boards from being lifted out
- Bracket particularly stable against bending; net inner dimensions = 65 x 165 mm for two overlapping side protection boards
- All stirrups with drill holes to nail and secure the side protection boards
- Multiple types for the differing kinds of fastening on construction sites
- Wide of accessories available

### Quick and easy solution for safety on filigree slabs:

#### FILI railing post



This railing post has been developed especially for fixing at the mesh girders of the filigree slabs.

The inner tube will be moved up or down by turning the crank on top.

It has two hooks at the bottom for fixing the post just place one hook in the crosspoint of two lattice girders and top horizontal bar and then spindle the inner tube upwards.

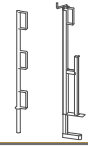
The fixing position of the post can be adapted universally to the space available due to the two hooks.

Base feet can be folded for a space saving storing and transportation.

The 4 hooks allow a fixing of the post anywhere according to the space available.

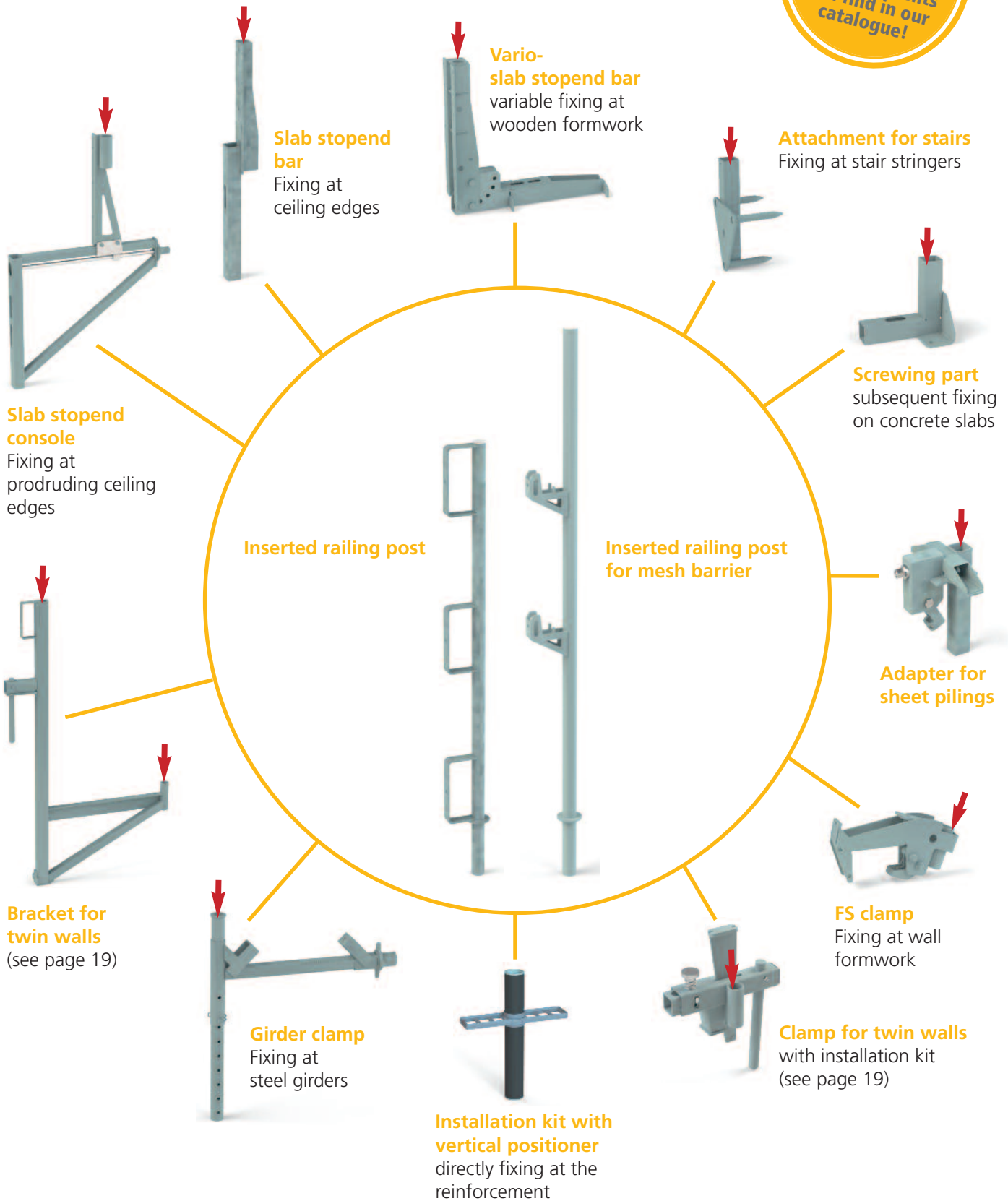
For a space saving and easy transportation just fold the 4 pliable braces inwards.



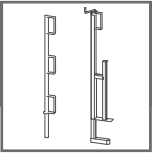


**Allround talent insertable railing post:  
Various attachments, compatible for many ranges of application!**

**PROS:**  
Fixing parts for all attachments you find in our catalogue!







### Threaded railing post D&W 20 mm Fixing before or after concreting



- ① Handle for clamping without bowing or kneel down
- ② Closed hooks for safe installation of wooden boards
- ③ Rugged coarse thread with large supporting plate



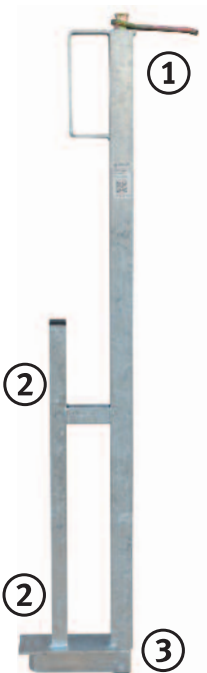
Before concreting:  
with installation kit D&W 20 mm



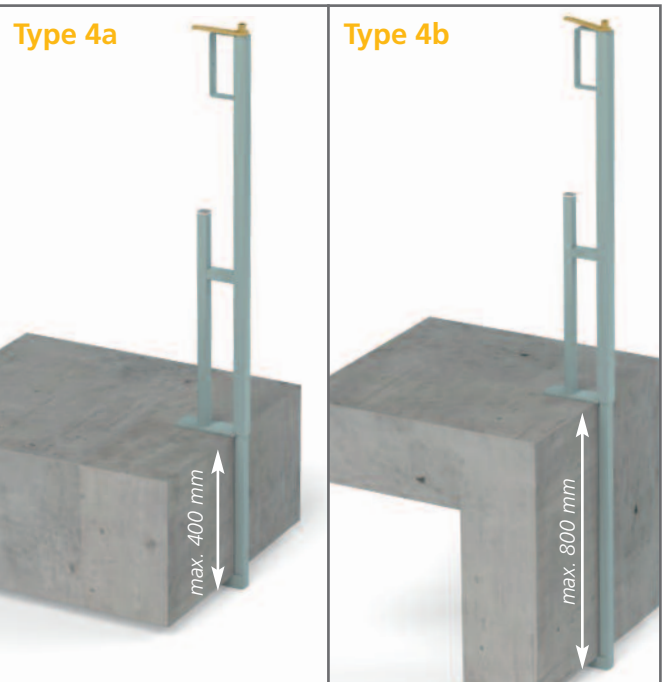
After concreting:  
with impact dowel D&W 20 mm

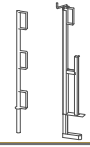


### Railing clamp in 2 versions: clamping range up to 400 mm or up to 800 mm Subsequent fixing at slab edges without further accessories

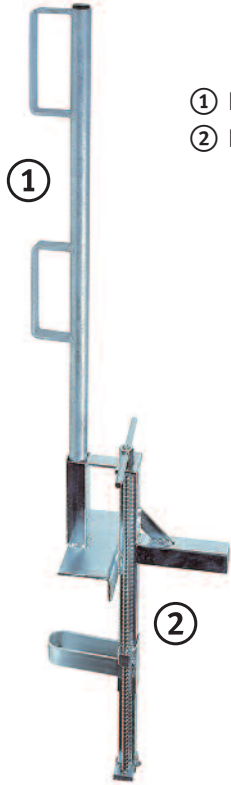


- ① Handle for clamping without bowing or kneel down
- ② Mounting options for wooden boards
- ③ Large supporting plate for tight fit

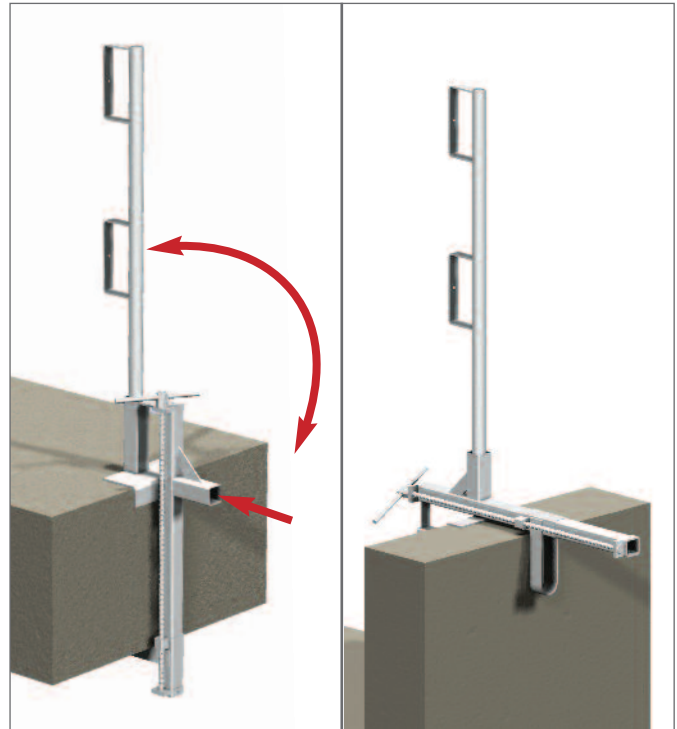




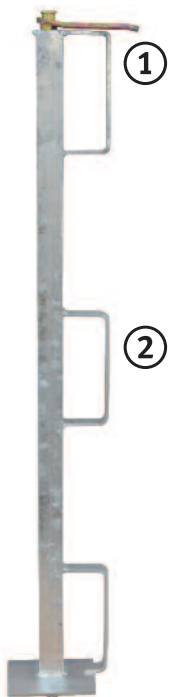
#### Combination railing post: optional for horizontal and vertical clamping 2-part, turnable clamp, 2 inserting options for fitting post



- ① Railing post
- ② Railing clamp



#### Dowel railing post D&W 15 mm Subsequent fixing at slab edges without further accessories



- ① Handle for clamping without bowing or kneel down
- ② Closed hooks for safe installation of wooden boards



See page 9







## Your benefits at a glance:

- Mesh elements and posts with storage racks – a rapid, safe system that is economical in every respect!
- Fulfils and exceeds requirements according to DIN EN 13374
- Mesh elements with a quadratic tube running around the sides and top for safe, convenient handling
- Easy-to-use: simply hang the elements onto the posts
- Post intervals up to max. 2.50 m – height 1.20 m
- Various possibilities for fastening the posts available

## Gapless protection at ceiling edges in the shortest possible time with mesh barrier 2 lengths and 3 different railing posts available

The **mesh barrier system** offers a perfect and complete safety solution without using wooden boards. Railing posts and mesh barriers are delivered to site on the storage racks so that everything required to quickly and easily erect edge protection is immediately available.

**The new mesh barrier element offers a great number of advantages to various applications:**

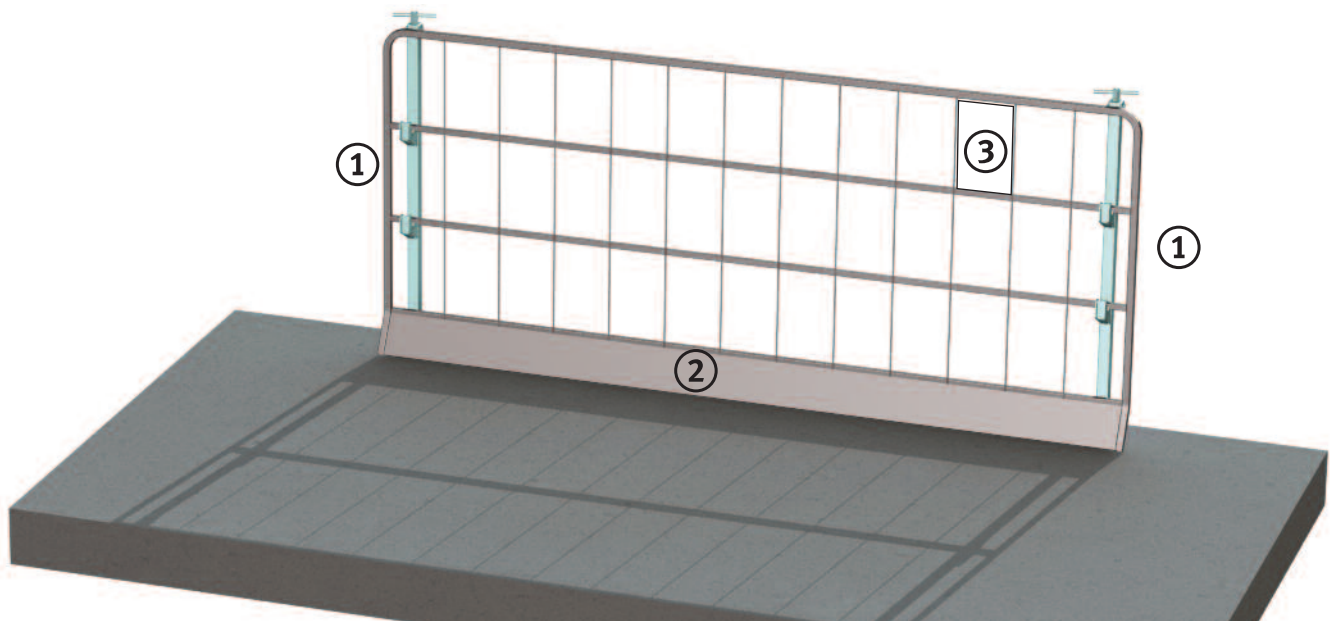
**Weighing less than 25 kg** each element can be easily carried by one man.

The mesh barrier frame is **manufactured from 25 mm square tube** with ergonomic round chamfered edges for easy and comfortable handling thus avoiding tiresome working with the thin bars and protruding ends of other barrier systems.

With a distance of posts with **max. 2.50 m** gives a useful and easily defined raster, compared to other systems, you need less posts.

When overlapping **2 mesh barriers** can be hung in per post, this achieves continuous adjustment of length.

The **very strong but lightweight construction** can withstand high wind speeds and be used on buildings **up to a height of 200 metres**.



- ① Railing post with double hook, each pair with 2 traps ensuring ridgeless overlapping of two mesh barriers
- ② Toeboard welded to the lower edge: extremely rigid against deformation
- ③ For more safety: mesh opening is smaller than required by EN 13374





#### Easy and fast mounting:



The storage rack provides an ergonomic working position reducing back and joint strain and fatigue and allows quick and easy movement and installation of the mesh barrier system components.

The mesh barrier can be removed directly from the storage rack and hooked directly on to the railing post in one movement, thereby avoiding twisting the body or having to put down and reposition the barrier prior to hanging. This method saves a lot of time and provides effortless working.

#### 3 different railing supports for choice:

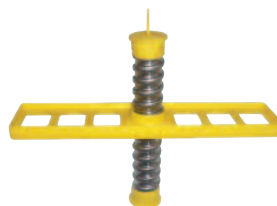
- ① inserted railing post, ② threaded railing post, ③ railing clamp



①



②

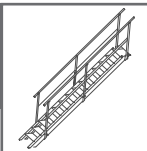


③

**PROS:**  
fitting attachments  
for inserted railing  
post see page 20







## Your advantages at a glance:

- Facilitate climbing up and down at construction sites and working places
- For creating temporary stairways cost-effectively
- Optimum safety thanks to steps that always remain horizontal – no matter what the inclination of the stairway may be (between 30 and 60 degrees to ground level)
- Can be adapted flexibly up to 5.00 m room height
- Low weight thanks to aluminium design
- Guard rails can be inserted on both sides independently of stairway inclination
- Ready to use immediately – can be mounted in a few minutes
- Tread area made from anti-slip aluminium chequer plate – each version can be supplied in two different lengths
- Each version can be supplied as a stairway or ladder
- Stairways can be used for inclinations up to 60°, ladders between 60° and 75°

**PROS:**  
Special sizes  
and lengths  
available on  
request!

### STAFE steep stairs:

#### 4 versions in 4 different lengths for almost every application!

The use of ladders or self mounted wooden staircases may seem to be safe. Indeed the building authorities note 170 accidents per working day alone in Germany.

When a safe and secure stand or hold is not possible while transporting items and working equipment on site, the danger of a fall is high.

The steps and stairs will adjust themselves always in a horizontal position because of the approved parallelogram-shifting of the longitudinal girders, independent of the obliquity of the staircase or steep stair.

A safe and comfortable stand, and with the guard rails also a secure hold, is always guaranteed.

For a safe overcoming of different levels during construction stages and to ease all working processes, also for the transport of equipment from slab to slab.



#### Attention:

Before using the construction steep stairs or stairways, they must be connected to the ground at the lower end. Appropriate tabs or openings are provided on the foot section. For your safety, an additional subsequent attachment at the upper end to the structure/floor slab is strongly recommended.







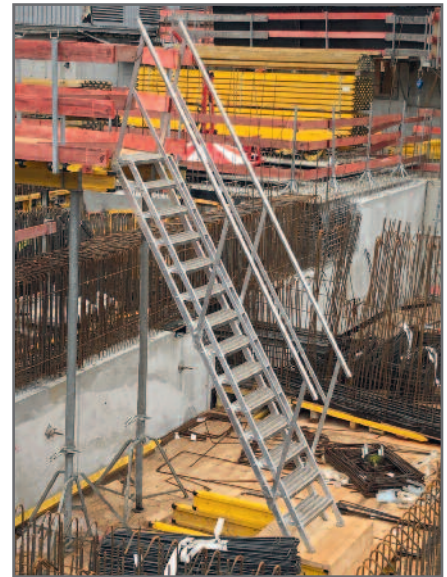
### STAFE stairways

#### 2 types, 2 different lengths in comfortable width for safe transportation ways

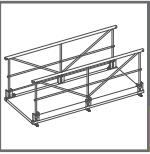
The STAFE stairway consists of 2 parts. The railing and the stair part can thus be stored and transported in space-saving manner. The insertion of the railing is possible without any problems at any stair inclination.



*Easy and space saving stacking for transportation and storage*







## Your benefits at a glance:

- Cross over safely from an embankment to a building, from a building to a crane or from one floor to another above an inner courtyard
- Rapid assembly; safe and rapid implementation
- Very anti-slip floor surface made from galvanised steel is also very resistant to contamination
- Good stability thanks to the two side protection frames, which act structurally as truss girders
- Permissible payload 1.5 kN/m<sup>2</sup> with an unsupported span width of 9 m
- Can also be utilised as an escape route with a greater 2 kN/m<sup>2</sup> payload and 6 m unsupported length permissible
- Height mismatch between the walkway's upper edge and concrete floor can be bridged with an optional apron plate as ramp (eliminates the step when using the walkway with a wheelbarrow)
- Side protection frame can be folded and walkway stacked for saving space in transportation and storage
- All means of connection are included in the scope of delivery; no additional parts and improvisations with wooden planks necessary at a construction site
- Suitable for both new and renovation construction work

## Secure ways on dangerous on dangerous crossings – with side protection 1.20 m Pivoting cover plates suitable for wheel barrows!

To produce passages on sites people work with a lot of phantasy. Solutions with wooden girders, placed wooden boards and only partly mounted side protection are not safe and do not offer protection against falling.

This is even more critical when workers have to use the walkway while carrying materials.

The moving of the walkway in one piece saves a lot of time and is more safe than the mounting and dismounting of single parts.

### Extra safe:

The side protection height of 1.20 m gives a safer feeling in bigger heights.

The boards are installed fix. Because of the anchoring holes provided at all 4 edge points a safe fixing is guaranteed against sliding.



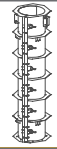
**PROS:**  
More accessories  
you find in  
our catalogue!



# 4

## FORMWORK SYSTEMS

### ROUND COLUMN FORMWORK AND ACCESSORIES



#### Your benefits at a glance:

- For round concrete columns in facing concrete quality
- Formwork made easy; the two formwork halves are obliged to form a perfect joint by dint of centring pins
- Quick-locking mechanism with a  $\varnothing$  15 mm D&W coarse thread and wing nut
- Continuous rubber sealing at the longitudinal joint prevents leakage
- New longitudinal profile enables panel formwork for oval supports to be connected up without special parts
- Concreting platform with side safety barrier fits all formwork diameters without tiresome adjustment work
- To rent – diameters beginning with 240, then from 250 mm up to 1,000 in 50 mm incrementations
- Length gradations in 50 cm steps
- Concrete pressure max. 120 kN/m<sup>2</sup>
- Special formwork and any intermediate sizes required can be manufactured on request to the sales department



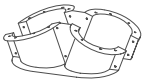
#### Round columns in exposed concrete when concreting on-site Various standard sizes available, connectable for large heights



- ① Rubber sealing with excellent sealing action
- ② Formwork profile fitting for adjusting to all wall shuttering with 123 mm construction height, connection with the according clamps or spanners
- ③ Centring pins for accuracy mounting the halves, removable if necessary
- ④ Hammer head bolts
- ⑤ Concreting platform, stackable on one point, therefore usable for all diameters







### Your benefits at a glance:

- Special formwork and special moulds can be supplied on request according to project
- For concreting objects in facing concrete quality at construction sites and in precast production facilities
- As one off pieces or in combination with standard, wall and slab formwork
- One source planning and manufacturing of the formwork structure
- "Breathable formwork" for jointless concrete components

**Enormous variations – solutions for complicated formwork  
Special constructions made in germany!**

### Examples:



*BV Thyssen Tower: Special construction of various aluminum towers*



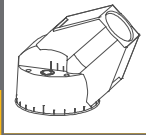
*BV SKY Bietigheim: Special working platforms*

**PROS:**  
Planning  
construction  
production  
We look forward  
to your request!



*Construction project S21: Support for the concrete goblet shape towers*





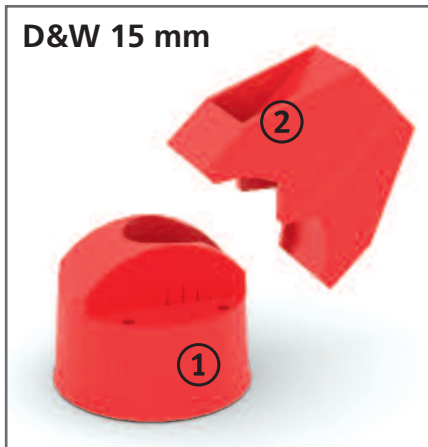
## Your benefits at a glance:

- Available for D&W 15 and D&W 20 mm
- Infinitely variable anchoring angle can be adjusted between 45° und 90°
- Enormous saving of time and money thanks to its simple assembly – no need for time-consuming solutions at the construction site
- Easy dismounting of conical basic cone with removing tool after removing of the formwork
- A circular opening always remains once the conical basic cone has been removed
- Closing of the opening with fine grained concrete cone
- A homogenous facing of concrete surface ist guaranteed
- Even in difficult installation situations, perfect, uniformly reproducible exposed concrete clamping points are possible
- The sealing lip on the basic cone enables sealing to the formwork
- Length compensation to the PVC pipe is made possible by the large insertion depth

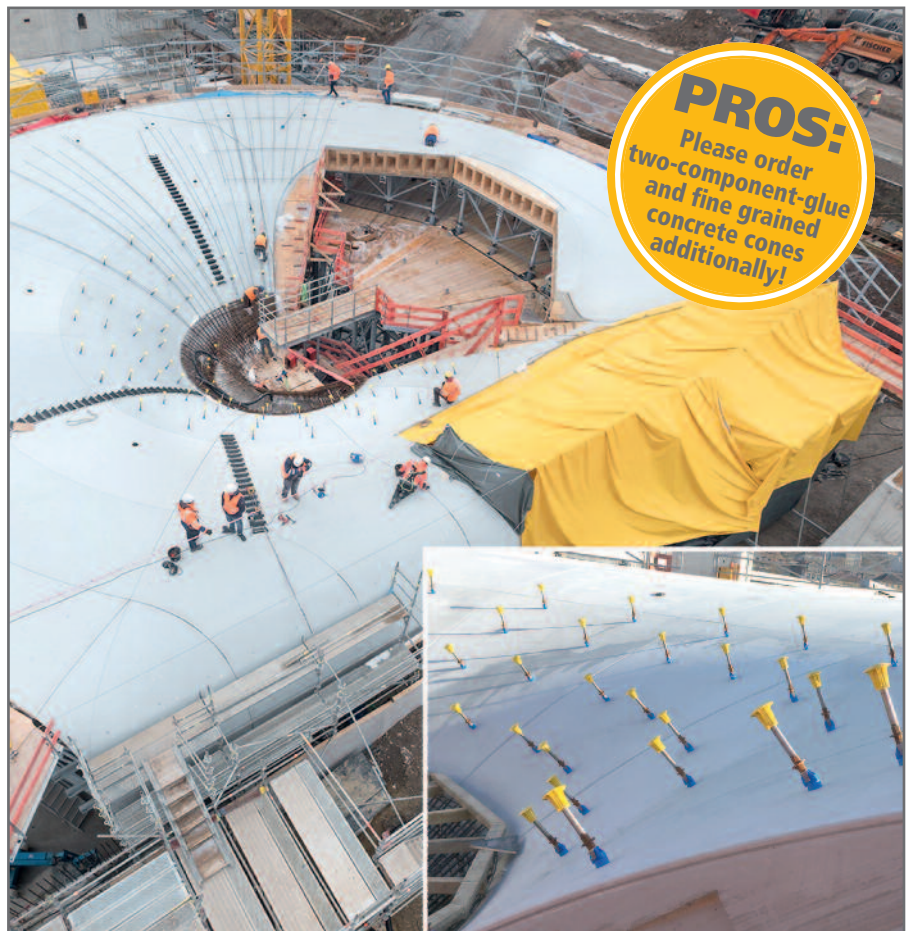
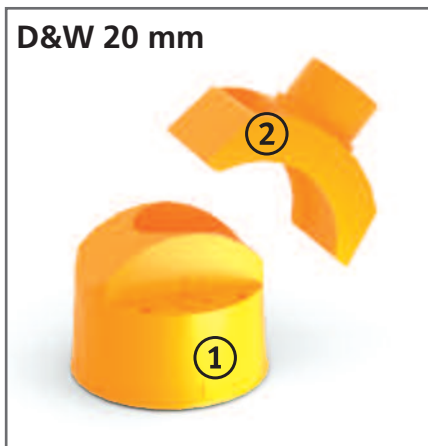
### Angle cones 2-part in D&W 15 und D&W 20 mm: A perfect circular opening remains after removing the basic cone

- ① **Basic cone** with sealing lip, recoverable
- ② swingable **head piece**, with angle markings for accurate installation, non-recoverable, flange for installing coupling nut or spacer tube according to wall thickness

D&W 15 mm



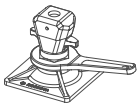
D&W 20 mm



**PROS:**  
Please order  
two-component  
glue  
and fine grained  
concrete cones  
additionally!







### Your benefits at a glance:

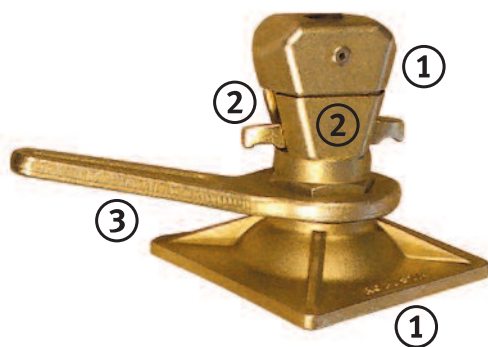
- Sensational savings on time – see for yourself!
- The two-part nut is simply pushed onto the anchoring bar
- Only one employee is needed for each locking point thanks to the rapid locking bar with its wing nut welded on
- This means that formwork assembly and stripping times can be greatly shortened
- With the appropriate wrench, low noise work is possible particularly at night construction sites and with 3 shift working times

### Shuttering and striking in record time – saves countless man-hours without turning, just by sliding onto the tie rod

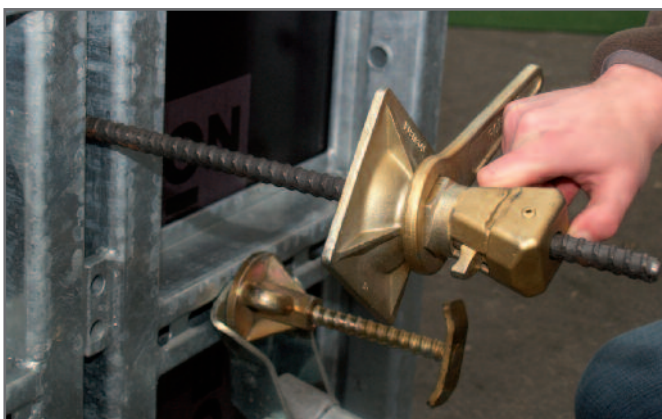
Every day wall and supporting formwork is encased and stabilized with anchors and wing nuts on all construction sides. If somebody is watching closely, he will recognize that the same working steps are being repeated time and again with a high effort of time.

The basic idea then is to avoid the time-consuming turning of the nut. Because of the significant bipartition of the nut in the when closed the cumbersome turning is not necessary any more. The Rapid Locking Nut will be placed at the end of the bar and then just slid onto the tie bar. When the counterplate is tightened to the formwork, just a short turning motion with the integrated rotating slugging wrench is necessary to tighten and prestress the anchor bar. The nut has all the essential parts for an universal use, thus no more accessories are necessary.

The linked counter plate allows inclinations up to 5° and with its measurements of 12 x 12 cm it is big enough for all common frame formworks and flanges.



- ① Case made of precision cast iron
- ② Nut halves with wings made of special high tensile steel
- ③ Integrated rotating wrench made of forged steel

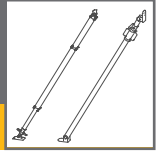


After placing the second side of the wall formwork, simply push the Rapid Locking Nut over the bar until the counter plate touches the formwork – **no screwing necessary!**



Thereafter, the Rapid Locking Nut can be pushed over the bar, holding the wings simultaneously.





## Your benefits at a glance:

- 3 sizes, extension lengths from 1.50 m to 5.00 m, admissible loads from 5.0 kN to 30.0 kN
- Permissible tensile load = 30 kN, independent from the extension length
- Telescopic construction with inner and outer tube
- Hole arrangement in the inner tube with every 100 mm distance for easy adjusting
- Galvanized for long service life
- Optimized adjustment ranges
- New, stable end hinge, galvanized, for long service life
- One-hole end hinges for quick mounting and use as room diagonal
- Bushing reducers against moving of the end hinge
- Important detail for all 3 types: end hinges can be rotated against to each other, thus the assembly of the supports in room diagonal arrangement is possible without problems

## Types M and Types R:

### The lightest prop variation for nearly all applications!

With our prop **Type R** we have developed an improved version of our prop Type M.

The variation between the types of props has been optimized, so an enlarged extension with the same number of types can be reached.

Because of the visible outer thread the possible use of the spindle can be recognized.

So the pin can be inserted always in the optimum position.

All borings and connection parts are produced with highest precision.

This can be noticed in the slight axial tolerance of the prop.

Galvanizing increases the validity and working service of the prop.

The **standard end hinges** with a whole diameter of 27 mm guarantee for a quick and efficient fixing, by turning the anchoring point the props can be adjusted diagonal.

Because of the **telescopic construction** a quick and easy handling of the prop is guaranteed.

All the accessories for fixing, storing and transportation are usable of course also for our new prop Type R.

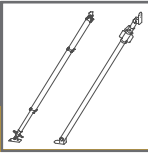
Type	Extension length [m]	Admissible load [kN]
I-R	1.50 – 2.50	30.0 – 16.3
II-R	2.10 – 3.50	26.6 – 9.9
III-R	3.00 – 5.00	16.0 – 5.2

Also available is prop Type M, varnished, with fitting end hinges.

- ① Visible outer thread for finely adjusting
- ② New end hinge, galvanized







### Types S:

#### High admissible loads, wide variety of uses with different end hinges

With these types, high loads and high adjustment lengths from **2.60 m to 7.60 m** are covered.

Nevertheless, the props are still handy and can be mounted in most cases without the help of a crane at a weight of 21 kg to 84 kg per piece.

These props are mostly used at hangar and industrial construction sites, where wall formwork at a height **up to 8 m** and prefab element columns up to an approx. length **of 15 m** have to be supported.



Type	Extension length [m]	Admissible load [kN]
1-S	0.80 – 1,40	40,0
3-S	1.70 – 3.10	40.0 – 15.5
4-S	2.60 – 4.00	40,5 – 15.0
6-S	4.60 – 6.00	37.0 – 18.0
8-S	6.20 – 7.60	38.5 – 21.0

### Types BKS: our „BauKastenSystem“ – Modular-Assembly-System

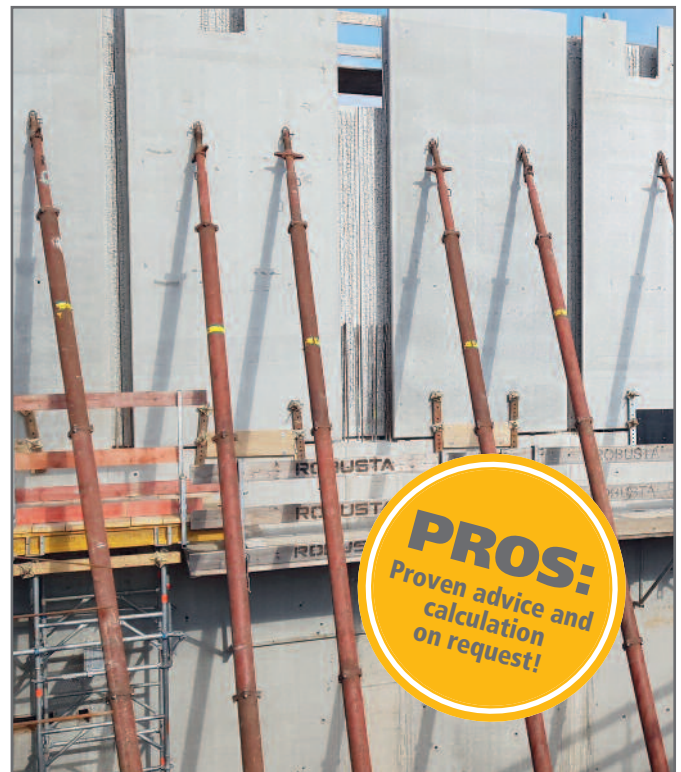
#### With combination of different elements very high loads realizable

Very sturdy, stable design. Because of the very large extension ranges of over **20 m** and their massive weight, these supports can only be handled with a crane.

Available in many lengths by joining separate elements of various lengths and individual spindle elements.

Because of the size and weight of the prefabricated elements or formworks, an exact structural calculation of the loads is required for use in heavy engineering design.

On request, we will carry out this prop calculation for your specific needs.



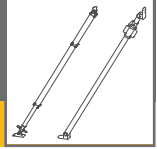
Type	Extension length [m]	Admissible load [kN]
BKS-10	2.45 – 3.15	50.0 / 50.0 / 50.0
BKS-20	3.65 – 4.35	50.0 / 50.0 / 41.5
BKS-30	4.95 – 5.65	50.0 / 50.0 / 37.4
BKS-40	6.05 – 6.75	50.0 / 45.3 / 32.6
BKS-50	7.35 – 8.05	50.0 / 39.1 / 28.2
BKS-60	8.65 – 9.35	45.7 / 33.2 / 23.8
BKS-70	9.75 – 10.45	39.0 / 28.3 / 20.1
BKS-80	10.85 – 11.55	32.5 / 23.8 / 16.7
BKS-90	12.15 – 12.85	25.1 / 19.9 / 13.7
BKS-100	13.36 – 14.06	19.3 / 15.2 / 11.2



# 6

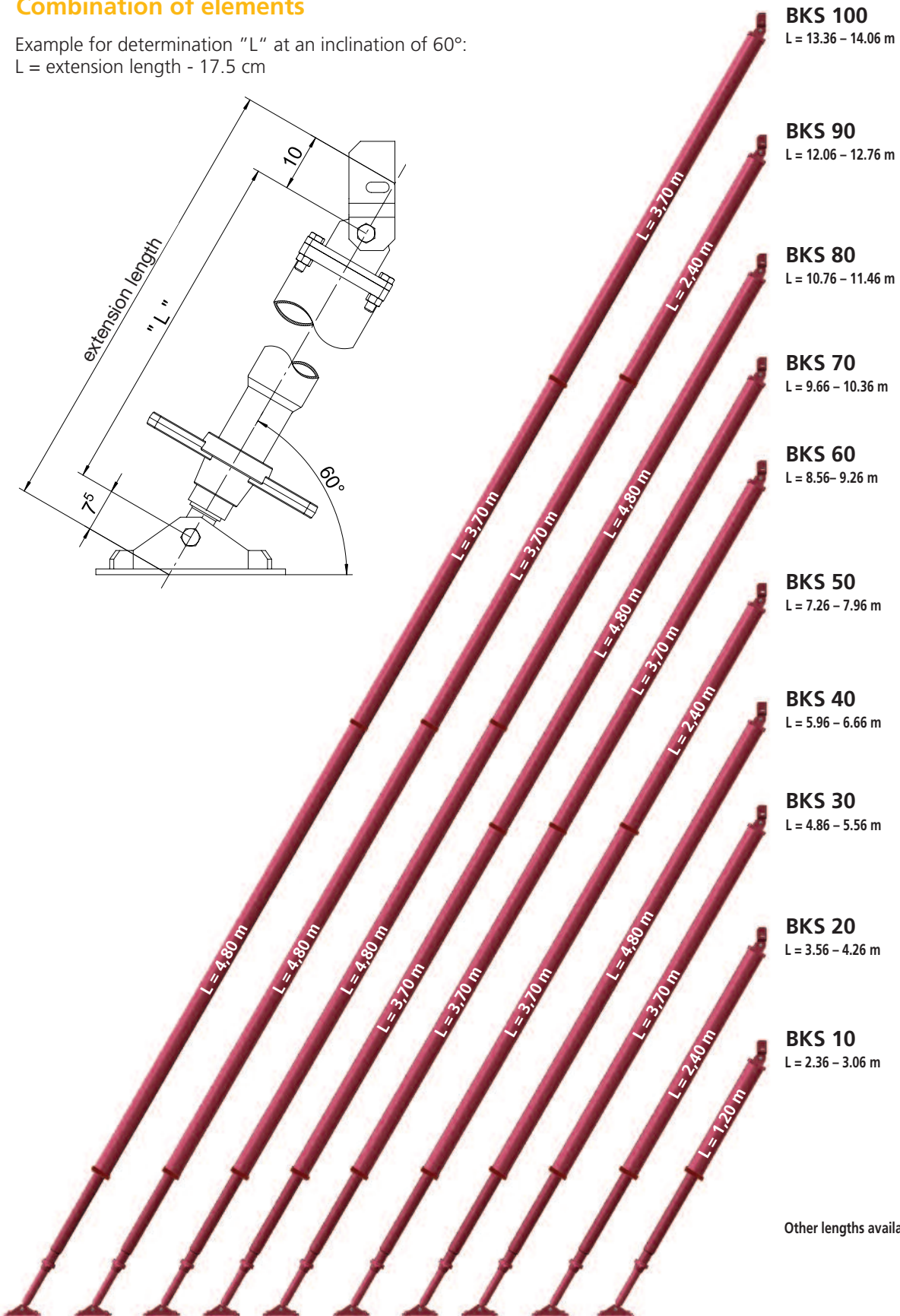
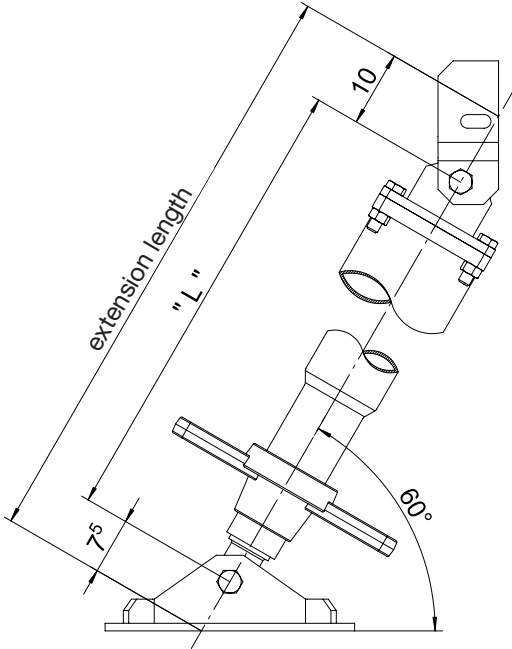
## MOUNTING TECHNOLOGY

### PUSH-PULL PROPS AND ACCESSORIES



#### Combination of elements

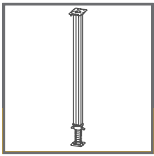
Example for determination "L" at an inclination of 60°:  
 L = extension length - 17.5 cm



Other lengths available on request



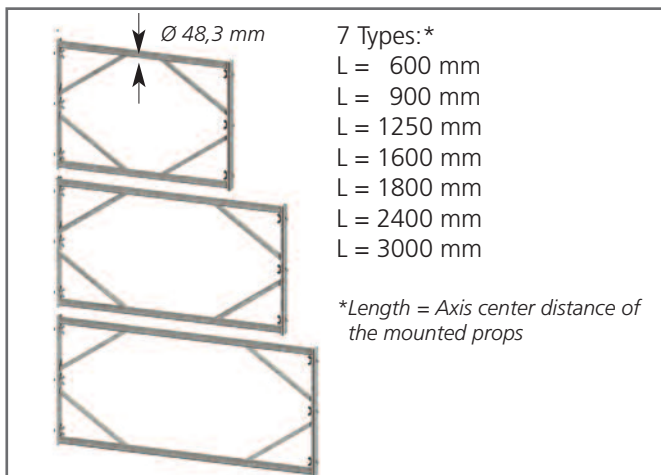
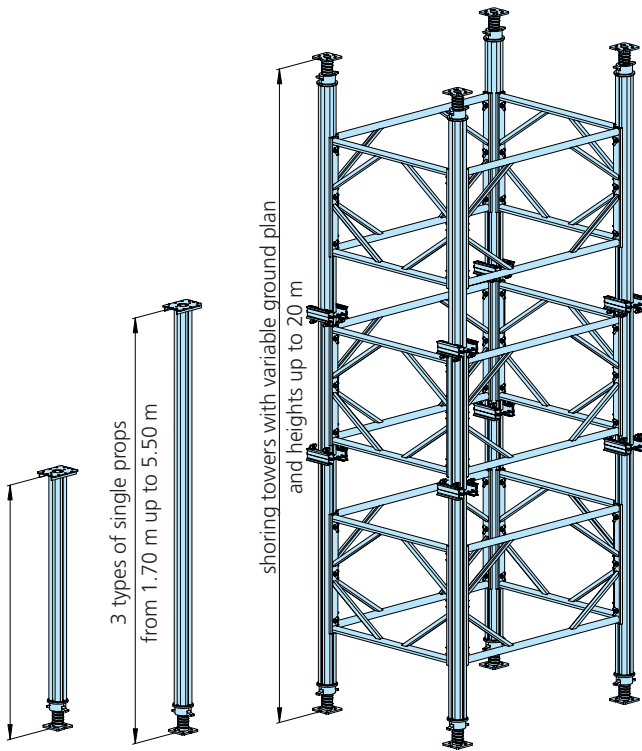




### Your benefits at a glance:

- For carrying heavy loads at great room heights
- For use as single props and as shoring towers with horizontal aluminium frames
- 3 different prop sizes and intermediate pieces
- 2 sizes of strong stringer beams to carry greater prop intervals and loads
- With a type-tested structural analysis and general building authority approval
- Sensible accessories that can be combined with standard scaffolding materials
- Excellent handling thanks to low dead weight
- Safe, trouble-free working
- Long service life; no danger of rusting

**Approx. 3 times more bearing loads compared to steel props and lower weight**  
**Shoring towers combinable with different horizontal frames and beams**



**PROS:**  
 Various accessories  
 you find in our  
 catalogue!





## Your benefits at a glance:

- Can be dismantled to save space with storage and transportation
- Can be supplied in two lengths (4.20 m and 6.00 m)
- DepoFlex 6000 series extendible in height to 6.60 m for high wall elements and precast components
- Expandable to a height of 6.0 m for special cases
- Secure intermediate storage for precast component wall panels at a production facility or on a construction site
- Optimum application for wall formwork – more order and safety at a construction site
- Each storage rack forms an enclosed structural system on its own
- Can be set up without any special foundation anywhere on firm ground; no additional anchoring necessary
- With a second perforated girder also suitable for low embankment elements and for additionally securing high wall elements against tipping
- Made from a few frame elements and so can be built up and dismantled rapidly
- Perforated girders can also be supplied individually as a storage rail

## Safety and order on sites through closed static system comfortable storage for large building parts, for example wall formwork

The new DepoFlex storage racks make a frame shaped, complete structural system in themselves, which are stabilized by the weight of the wall elements on to the lateral wooden girders.

These girders support the construction elements integrated into the ground frame and protect the sensitive edges of the prefab elements against chipping off.

The storage racks are a stable, perfect intermediate stock, which must be placed on solid ground. The mounted racks can be lifted and moved with the crane easily by two stable hooks.

The lower and middle pinhole girder enables the storing of low elements, for example railing elements.

The pins fixed into the girder secure additionally as protection against turning of the elements around the upper thermal point.

**DepoFlex 4000** and **6000** are replacing our previous version. The entire construction has been optimized, so that the mounting is even easier, and both versions are galvanized for a longer durability.

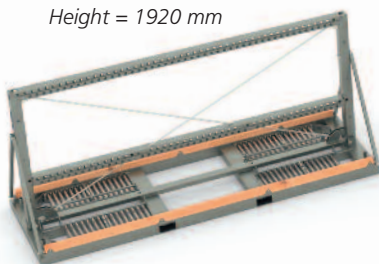
Also the DepoFlex storage racks offer the possibility to place the pins already into the base frame during transportation, so that all elements are well secured.

For higher prefab elements and wall formwork the **DepoFlex 6000** can be raised **up to 6.00 m (= DepoFlex Plus)**.

**PROS:**  
Please order  
cotter pins  
additionally!

### DepoFlex 4000

Length = 4200 mm  
Width = 1490 mm  
Height = 1920 mm



### DepoFlex 6000

Length = 6000 mm  
Width = 2400 mm  
Height = 2620 mm

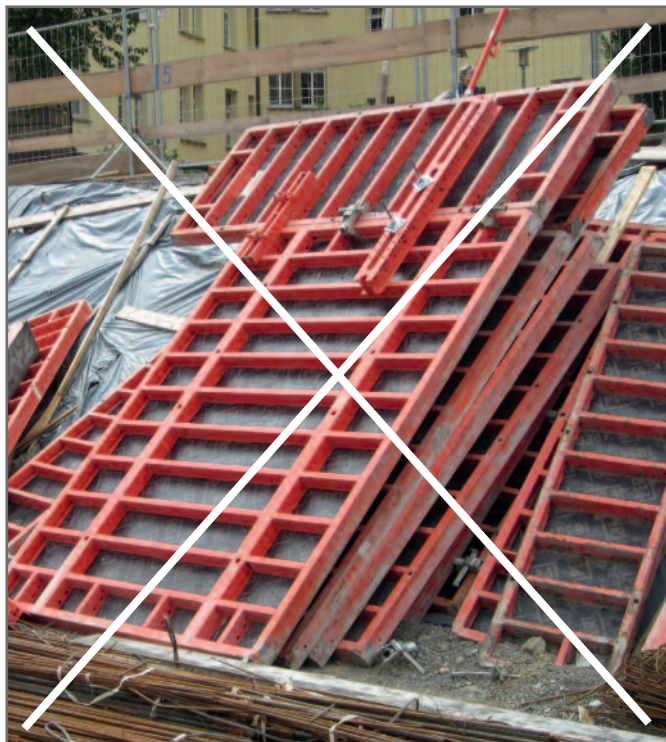


### DepoFlex 6000 Plus

Length = 6000 mm  
Width = 2400 mm  
Height = 4620 mm







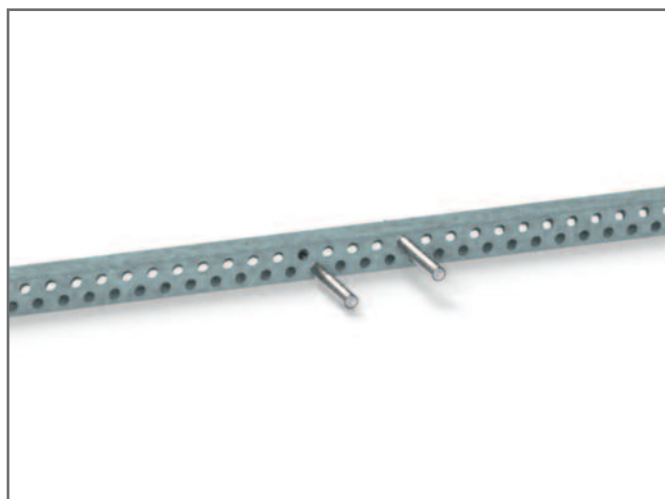
Also at in-situ-concrete construction sites with wall formwork the storing racks guarantee accuracy and safety. A further positive effect: enormous saving of time when selecting the elements.

### Alternative: Perforated single girders as storing rail

For universal fixing to firm columns or supports made of steel profiles or concrete. As an accessory 3 loose lashes are added, which are welded to the according points on the spot. These rails are available from stock in a standard length of 6 m. Other lengths are available on request.

#### Detail:

Because of the two staggered rows of holes in the perforated girders you will have a narrow spaced raster to insert the cotter pins, this guarantees a space saving narrow placement of the elements. An additional advantage: each element is free accessible and can be hung to the crane immediately without being disturbed by adjoining parts.



### Accessory: Cotter pins

Stable cotter pins made of solid round bars, available with clear cover for sensitive prefab elements surfaces.

#### Important for the safe function of the cotter pin:

The coatings are used at the same time as an indicator for the correct insertion depth into the perforated girders. The end of the cotter pin has to stand over the other side of the perforated girder.





## Your benefits at a glance:

- Safe working area outside a building for transporting formwork and scaffolding material up and down using a crane WITHOUT angled hoisting equipment
- Rapid assembly; safe, quick implementation
- Loads permitted up to 4.7 t, point loads up to 0.6 t
- Effective protection against small parts falling down thanks to a closed slab area made from chequer plate; closed off additionally at the sides' circumference
- No height difference between the upper edge of the platform slab and the concrete slab
- Side protection frame and all connectors included in the scope of delivery; no additional parts and improvisation with wooden planks necessary at a construction site
- Suitable for both new and renovation construction work



## New: completely galvanized for long life service!

## Easy transportation of material from floor to floor into the building

For the transport of formwork and scaffolding material from one floor to the next people improvise a lot on sites. On-site solutions with cantilevered wooden beams, loosely laid wooden planks and only partial side protection are very unsafe.

With **TrapoFlex-working platforms** the safe and quick transport of formwork equipment from floor to floor is guaranteed.

All components of the platform are statically verified for the occurring loads.

The moving of the platform in one saves a lot of time and furthermore it is much more safe as the disassembling of loose parts.

When working at the outside of buildings security is most important, therefore no wood is used for the side protection.

The closed flooring is made of nonskid corrugated sheet which is supported in narrow distances by transvers fins. In that way lumped wheel loads, for example of lifting trucks, up to 600 kgs are possible without much bending.

In our delivery programme we offer 4 different standard sizes, special sizes on request.

**TrapoFlex S**  
Platform area 3.48 m<sup>2</sup>



**TrapoFlex M**  
Platform area 5.80 m<sup>2</sup>



**TrapoFlex L**  
Platform area 8.34 m<sup>2</sup>



**TrapoFlex XL**  
Platform area 10.42 m<sup>2</sup>



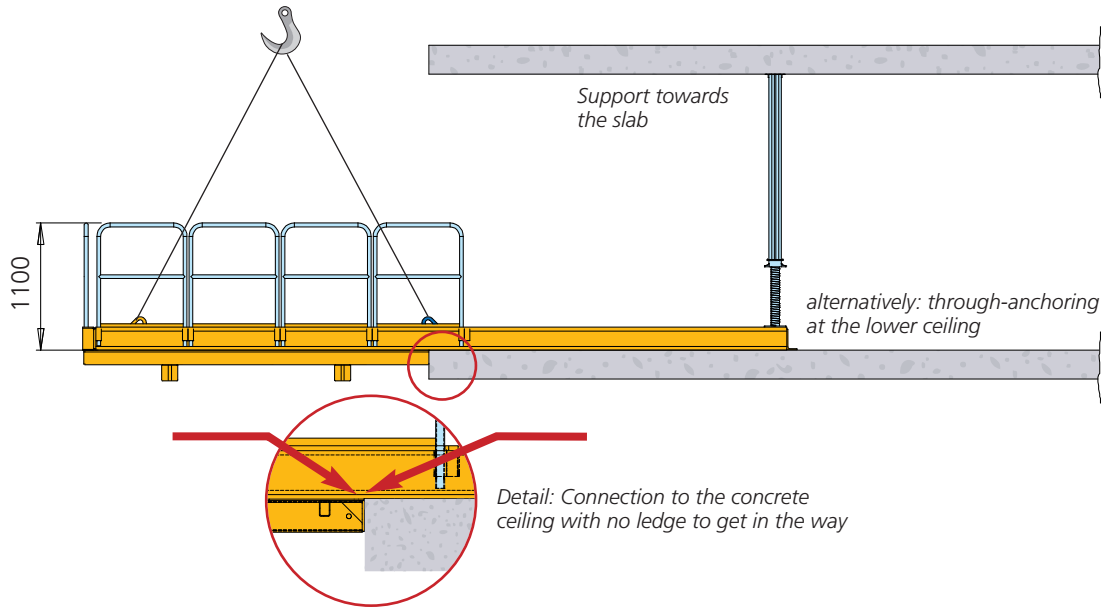




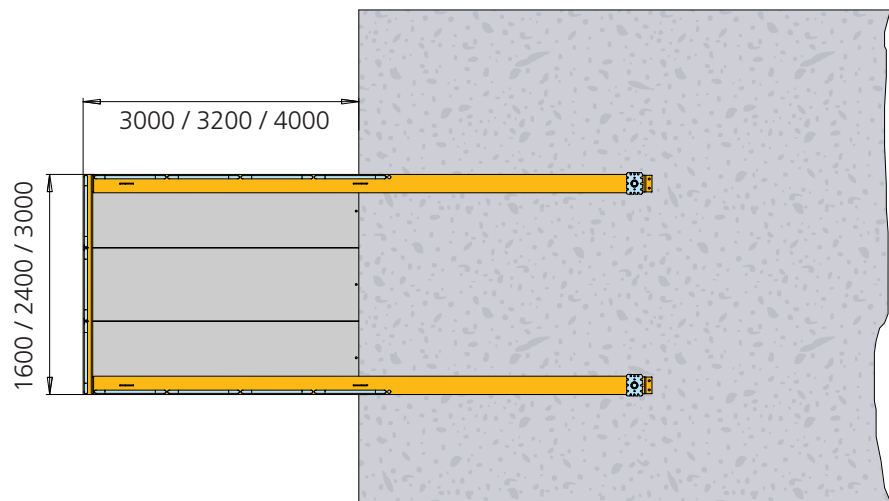
# STORING AND INSTALLATION AT CONSTRUCTION SITES

# 7

## TRAPOFLEX WORKING PLATFORMS



**Admissible loads:**  
up to 6 kN/m<sup>2</sup>  
total: 47 kN



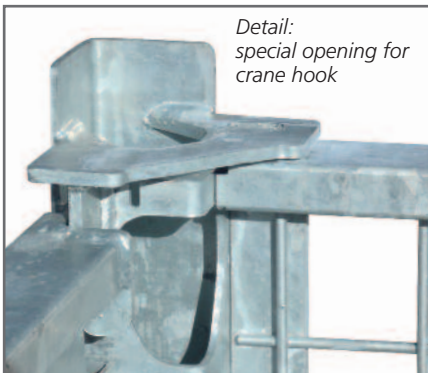


## Your advantages at a glance:

- These transport and storage pallets can be hoisted by crane – indispensable on every construction site!
- Safe transportation of loose material and formwork accessories
- The pallets can be personalised for rapid recognition on a construction site
- Galvanised for a long service life
- Sturdy steel base
- ROBOX Euro type harmonised with standardised cage pallet dimensions
- ROBOX Maxi type for the optimum transportation and storage of 40 tripod prop holders; can be folded, and with folding side walls, to facilitate loading and unloading
- Wheel connections and wheels can be supplied for ease of movement on a construction site



## ROBOX Type "Maxi", cranable: Comfortable loading through complete opening of 2 sides, foldable



Tripods are extremely bulky for transporting or storage. Especially for this use we have developed the transport- and storage box "Maxi", which has been designed exactly for 40 tripods.

All side walls can be folded, so the empty box can be stacked space saving in a folded manner on site or transported back to the storing area.

Two side walls can be opened completely outwards, this enables workers to fill or empty the box.







### ROBOX Type "Euro", crenable:

**Can be stacked according to all Euro mesh boxes, stable steel floor, no more wood**

In addition to the foldable box "Maxi" for tripods, the boxes are also available in outer measurements according to the usual Euro mesh crates.

This means that these crates can be combined with the normal Euro mesh crates.

Also, these crates are, of course, usable by crane. At the rigid Euro crate the hooks are integrated into the spar.

Our crates are galvanized for long life service.

- ① 4 stable openings for crane hook
- ② Bottom made of profiled steel, no wood



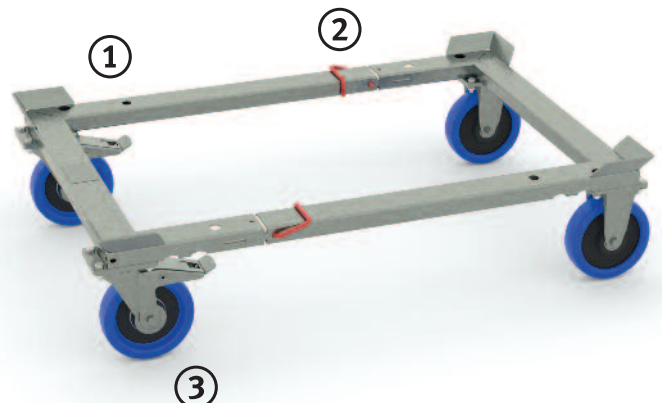
### ROBOX Typ "Euro" goes mobile:

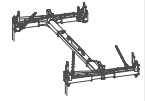
**Sturdy trolley, telescopic, also fitting for mesh crates of various manufacturers**

On customer request we produced a transport trolley for Euro mesh boxes.

In the meantime, this is available as a series part in our store.

- ① Sturdy frame, telescopic
- ② Adjustment lever
- ③ Sturdy solid rubber castors, 2 of them lockable





## Your advantages at a glance:

- Safety when stacking construction site containers
- Locking and opening of the twist locks from the ground
- Guide flippers can be folded down on all sides as required
- Suitable for container dimensions 16' and 20'
- Load capacity 6 ton
- Hot-dip galvanized for a long service life
- Robust steel construction
- Special dimensions on request!



## Safety when stacking construction site containers from the safe ground Put on ConFlex – lock it – safe stacking on the construction site

Construction site containers are required when setting up construction sites.

For reasons of space, they have to be stacked on top of each other, especially for larger construction projects.

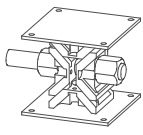
A particularly sensitive point with regard to occupational safety is attaching or removing the crane suspension in the second or even higher level. With two containers on top of each other, the fall height is **already 5 meters!**

Another important factor is the lack of guardrail fall protection when the operator is on the container roof to unhook the crane he needs to bend over and might fall off the corner.

The idea of ROBUSTA-GAUKEL for the safe moving of containers: the roof area no longer has to be stepped on, the operation is ALWAYS carried out with the ConFlex from safe ground.







### Your benefits at a glance:

- For supporting and lowering great loads with soffit scaffolding and steel work
- 2 types for loads of 420 kN and 1000 kN
- Robust, rugged design
- Less expensive and simpler than hydraulic systems
- Height can be adjusted precisely and settling computed
- Test reports guarantee load-bearing capacities
- Head and base plate can be welded
- With type approval

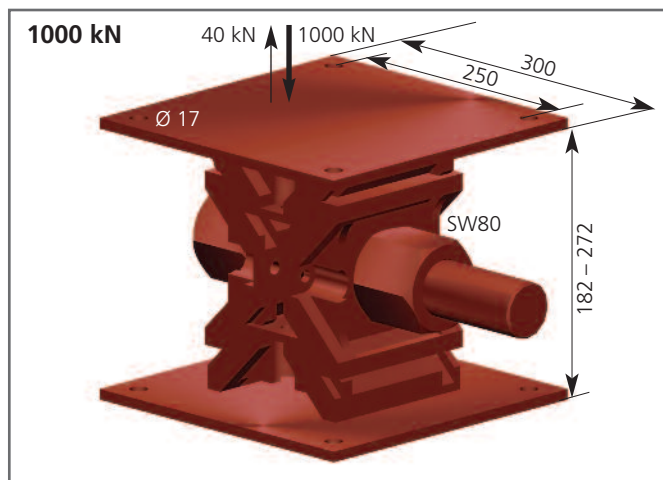
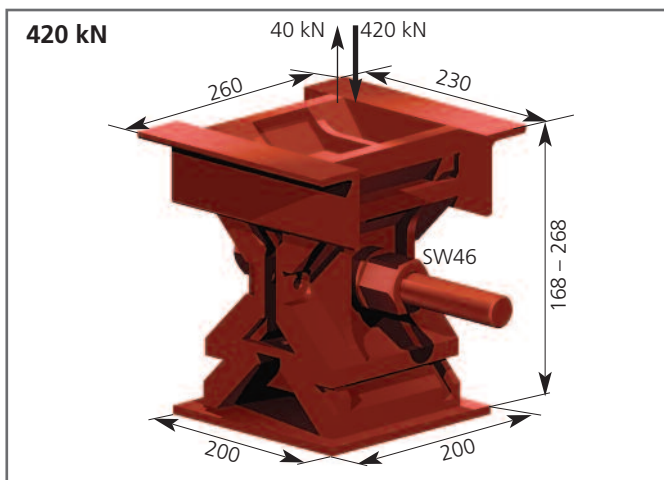


### Optimized to support and lower steel beams, scaffolding constructions, concrete prefab girders, concrete plates etc.

With the wedges it is also possible to lift and adjust loads up to 40 kN. The wedge jacks have proved themselves on many sites as a support for falsework, steel structures and crossbars. After the supported construction is completed and self-supporting, the supporting members are released from their load by lowering the wedge jack. Subsequently, an easy dismantling of the members is possible. To lower the wedge, just rotate the lateral hexagon nut. This causes the two lateral "wedges to move outwards on account of the imposed load. As a result, the height of the wedge jacks is reduced as well.



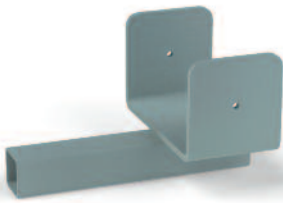
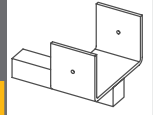
Free wheel ranch



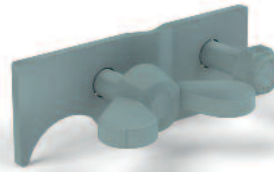
# 9

## FURTHER ACCESSORIES

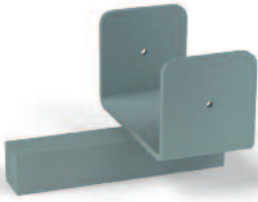
### TRAVERSE CLAMPS, SUSPENSION SHOES AND MORE



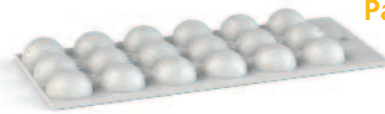
**Suspension shoe**  
light version  
Adm. load 3 kN



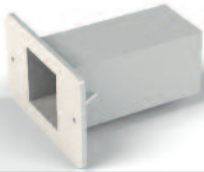
**Traverse clamps**  
leftside/rightside



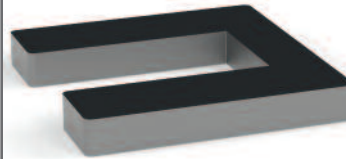
**Suspension shoe**  
heavy version  
Adm. load 10 kN



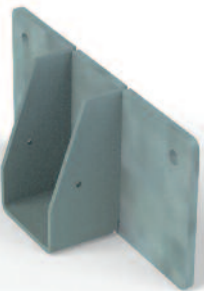
**Panel pad**



**Socket**  
for suspension shoe  
30 x 30 x 80 mm



**Installation plate**  
diverse sizes



**Suspension shoe special version**  
for doweling  
Adm. load 7 kN



**Canal strut, light**  
diverse lengths



**Suspension shoe**  
for doweling



**Canalstrut, heavy**  
diverse lengths







### Your construction site information in one place - easily, anytime, anywhere.

You probably know the situation too? Several construction site projects, different employees, many articles - all this needs to be coordinated.

### From now on, it's easy! With the ROBUSTA+ customer portal

Here you can find all important data and information about your construction site and the material at a glance. This makes controlling your construction site a child's play. ROBUSTA+ is available for desktop and mobile devices.

### What ROBUSTA+ can do

#### Answers to your questions, up to date and at any time:

- Which items are on my construction site?
- What do the items look like?
- When is the start and end of the rental period?
- What is the individual and total value of the goods?
- Call up technical documents and animations of all articles
- Print inquiry overview (e.g. as return delivery bill)
- and much more.

### >> REGISTER NOW at [www.robustaplus.com](http://www.robustaplus.com)

By the way: You have already made inquiries via our website? Perfect, your access data are also valid for ROBUSTA+!

Do you have any questions or would you like to receive training?

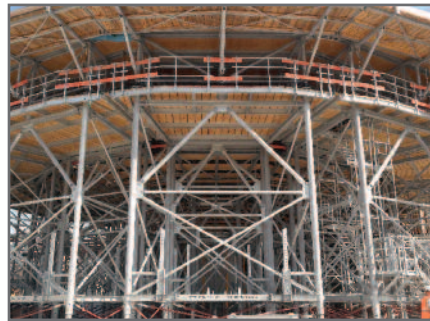
Please feel free to contact us or get in touch with your contact person



1965  
2022

## NEARLY 60 YEARS COMPANY HISTORY

### THEN AND NOW



#### Quality for nearly 60 years

In 1948 the construction manufacturing plant was founded by Adolf Gaukel in Esslingen, which was then joined by his son Alfred Gaukel in the early 1960s and ever since 1965 ROBUSTA has been a registered trade mark.

"Tensile force and push-pull props" were being built for a well-known Stuttgart construction company, protected as copyrighted construction prototypes. Further developments followed, such as the ROBUSTA anchoring system with threaded sleeves and the ROBUSTA storage racks.

From 1967 to 1972, 42 major systems were delivered, including horizontal manufacturing systems and battery formworks to be used for the production of concrete parts.

#### ROBUSTA delivery programme

The ROBUSTA delivery programme is divided into 9 groups and offers a quick and informative overview of the extensive range starting with ROBUSTA anchoring system up to various assembly equipment and steel formworks.

#### Stability and safety

ROBUSTA stands for well-engineered products that are resistant to the rough demands on construction sites all over the world.

The solid design of the items offered in our delivery programme are made guaranteed safe and resistant to wear and tear, even if demands are high.

#### All-inclusive solutions to problems

Solving problems is especially important for ROBUSTA, since structural, tensile and pressure forces require the expertise of experienced engineers.

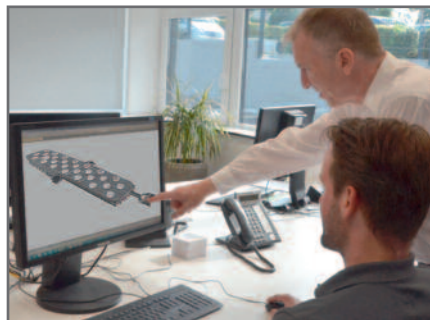
Since the complexity of the construction projects are increasing, the demands placed from the construction companies are rising.

ROBUSTA therefore offers on-site consulting based on know-how and experience.

Close co-operation with our customers allows us to offer the optimal solution to a problem, even in difficult situations.

#### New developments

New developments and the continual refinement of proven products, for example the ROBUSTA foundation system with DYWIDAG threading, allows for fast and easy handling on the construction site.



Our tensile and pressure supports, work platforms, railing supports, round and special formworks have been recognised for many years as technologically sophisticated products.

#### Production

In recent years we have gradually expanded our production and today we have reintegrated previously outsourced our machinery.

Therefore, we can react to clients needs even more flexible.

Most modern production technology with welding robots, laser cutting systems and CNC machines as well as the know-how of our employees guarantee for a high quality.

#### Storage and delivery

Our company's headquarters in Weil der Stadt-Hausen, Germany features an extensive storage facility. Almost all items are available for short-term delivery. We supply our customers in Germany and abroad quickly and reliably.

#### Berlin office



Over 20 years ago, ROBUSTA-GAUKELE GMBH & Co. KG opened a branch office in Berlin in order to have a presence in the capital city and the new federal states with their new challenges in construction.

#### The ROBUSTA rental programme

For more than 50 years, many of our products can be rented. Also in this field we are an experienced and reliable partner.





## **ROBUSTA-GAUKEL GMBH & CO. KG**

### **Hauptsitz:**

Brunnenstr. 36  
D-71263 Weil der Stadt-Hausen  
Telefon +49 7033 53 71-0  
Telefax +49 7033 53 71-31  
Internet [www.robusta-gaukel.com](http://www.robusta-gaukel.com)  
E-Mail [info@robusta-gaukel.com](mailto:info@robusta-gaukel.com)

### **Niederlassung Berlin:**

Rohdestraße 19  
D-12099 Berlin (Tempelhof)  
Telefon +49 30 75 70 70 00  
Telefax +49 30 75 70 70 07  
Internet [www.robusta-gaukel.com](http://www.robusta-gaukel.com)  
E-Mail [nl-berlin@robusta-gaukel.com](mailto:nl-berlin@robusta-gaukel.com)