



# Building Material Plants – In-plant Handling

**making  
hard work  
easier**



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## Building Material Plants – In-plant Handling

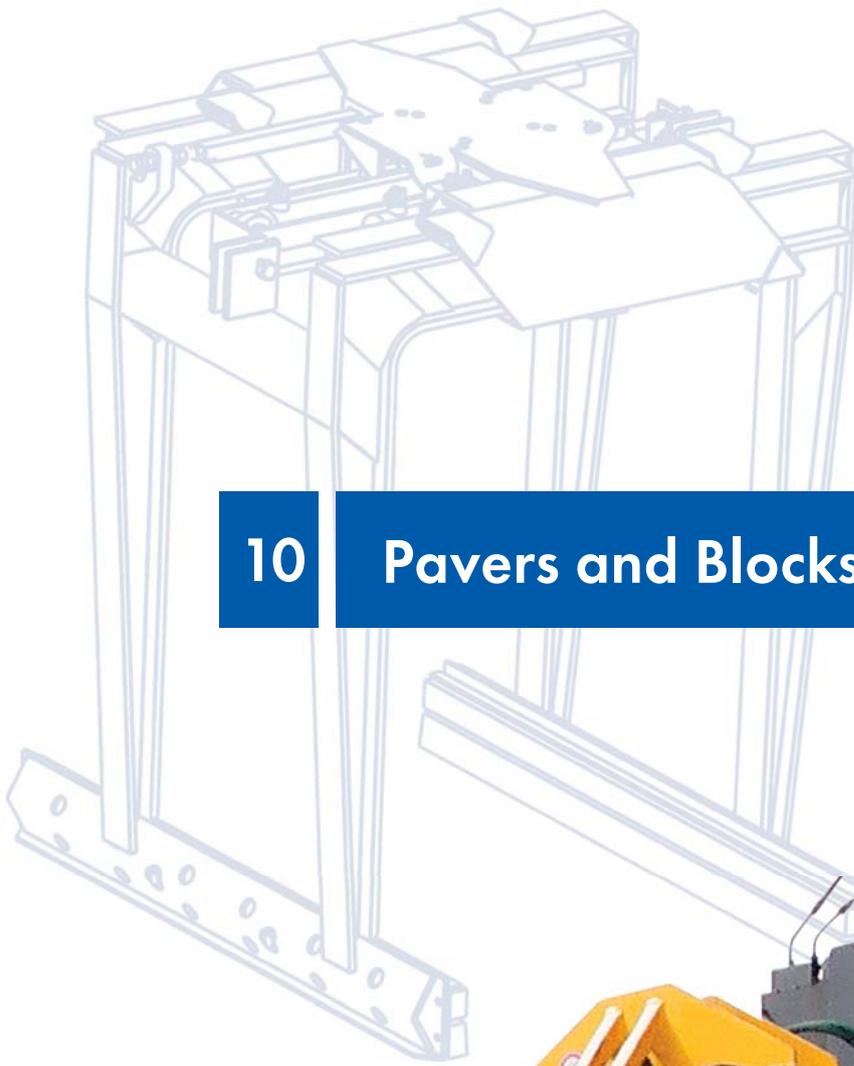
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## 10 Pavers and Blocks





Plastic sliding guides come with a 5 year guarantee

STAZ + fork sleeve + continuous rotator with swing damper

## Fork Lift Grabs STAZ – The powerful clamp, specially designed for heavy duty work with fork lift trucks

### STAZ-UNI:

For gripping heavier loads, or packs produced on multi-layer production machines. In particular used in conjunction with steel finger grippers. Can also be used for gripping packs of pavers which are not vertically steel strapped.

- Light-weight, yet with a high carrying capacity due to the use of high-tensile steel for load-bearing parts
- Can fit all the usual packs of building materials due to a large opening range and to the exchangeable grippers which come in various lengths and designs

### Customer-specific solutions

Technical specifications of STAZ forklift clamps:

Working load limits: 2,500 to 4,000 kg  
Opening widths: 370 to 1,370 mm  
Heights: 700 to 1,550 mm

**Larger/modified opening widths and heights are possible.**

**Send us your requirement profile: we will find the right solution!**

- Fully hydraulic parallel opening range
- Low-maintenance steel-polyamide sliding guides

### Standard Specifications:

- Manually adjustable pressure relief valve
- Oil Pressure Gauge
- Connecting hoses to the fork-lift truck optional available

- All Forklift Grabs can also be used as cubing grabs in fully automatic cubers for blocks and pavers
- All forklift grabs can easily be equipped with an electro-hydraulic power pack on top of the grab to be used in conjunction with a bridge crane or similar

### Modular System STAZ

We keep a broad range of components for you, for STAZ forklift clamps:

#### Gripping elements:

- Rubber grippers / Steel finger grippers (refer to page 8)

#### Connections to the fork lift truck:

- Hydr. rotators
- Hydr. swing damper
- Fork sleeves for fork peaks
- Crane boom
- Crane boom with distance adjuster bar
- Hydr. connecting hoses

## Fork Lift Grab STAZ – Clever solutions for construction material handling in the plant

### Version I: Grab with rigidly fixed forksleeves

Forksleeves can also be turned by 90°.

**Advantage:** Easy mounting to the forklift by the forks

**To consider:** Loss of lifting height, no rotation of the package

### Version II: Grab with forksleeves and hydraulic rotator as well as swing damper

**Advantage:** Easy mounting to the forklift hydraulic rotation, swing damper.

**To consider:** Loss of lifting height

### Version III: Grab with crane boom, rotator and swing damper

**Advantage:** Full lifting height, hydraulic rotation, swing damper.

**To consider:** Mounting and dismounting to the forklift takes about 10 minutes

### Version IV: Grab with telescopic crane boom, rotator, swing damper

**Advantage:** Trucks can be loaded from one side only, saves space in the yard, Full lifting height, hydraulic rotation of grab.

**To consider:** Mounting and dismounting to the forklift takes about 10 minutes

### Version V: Double grab with additional hydraulic operated spreader bar in order to move the cubes together towards the center. Includes crane boom with rigid load extension

**Advantage:** Two packs can be handled at one time, enormous time saving. Distance between the 2 packs can be eliminated during driving from production conveyor to the stockyard. No loss of lifting height.

**To consider:** No rotation of the pack. Mounting and dismounting to the forklift takes about 10 minutes

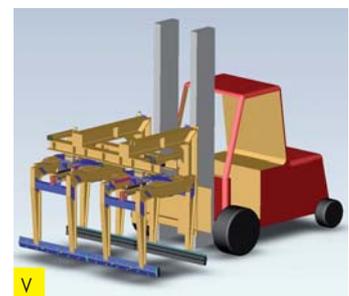
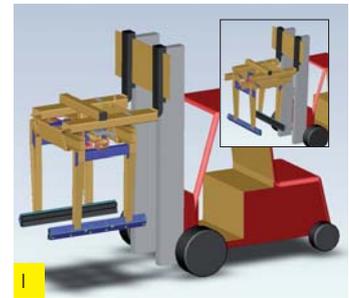
### Version VI: Double grab as above (Version V), additionally equipped with telescopic crane boom to load the trucks from one side only

Due to special features, an 8 ton forklift is sufficient despite of large load extension.

**Advantage:** See version V, but additionally trucks can be loaded from one side only.

Saves space in the yard. Full lifting height.

**To consider:** No rotation of the pack. Mounting and dismounting to the forklift takes about 10 minutes



# Forklift grabs for very special tasks

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Pavers and Blocks

## Fork Lift Grab STAZ-UNI-4 – The powerful 4-side clamp

- Specially designed for the safe gripping of un-straped and un-compressed stacks of multi-layer production
- Because the main and side gripping is separately controlled, and by using pressure plates, an exact compression of the stacks and the elimination of any gaps are achieved
- Pressure plates and fork sleeves optionally available

Type**	Opening Width Main Gripper *W1 mm (in)	End Gripper W2 mm (in)	Height* E mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
STAZ-UNI-4-850	550 – 1,230 (21¾ – 48")	900 – 1,400 (35½ – 55")	850 (33½")	3,000 (6,600)	765 (1,690)	57000165
STAZ-UNI-4-1000	550 – 1,230 (21¾ – 48")	900 – 1,400 (35½ – 55")	1,000 (39")	3,250 (7,200)	810 (1,790)	57000166
STAZ-UNI-4-1200	550 – 1,230 (21¾ – 48")	900 – 1,400 (35½ – 55")	1,200 (47")	3,500 (7,700)	940 (2,070)	57000167



STAZ-UNI-4 + fork sleeve + pressure plates



STAZ-SLC + fork sleeve

## Selective Layer Clamp STAZ-SLC – Pick block layers easily with the forklift

- Especially designed for order picking of individual number of layers of pavers and slabs
- Has an integrated, adjustable height stop, controlled by the gripping function, only one hydraulic circuit is necessary
- Adjustable height stop is controlled by a scissor system – it therefore reduces the necessary space required
- Fork sleeves, hydraulic connecting hoses and clamps optionally available

Type**	Opening Width W1 mm (in)	Height E mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
STAZ-SLC	370 – 1,370 (14½ – 54")	500 (700) (19¾") (27½")	1,500 (3,300)	367 (800)	57050034

## Fork Lift Grab STAZ-KS – Specially designed for operation in silicate block factories

- With crane boom, hydraulic continuous rotator, hydraulic swing damper and rubber grippers for handling silicate blocks gently
- Working load limit up to 6,000 kg
- Different models to meet your requirements available on request



STAZ-KS

\* Larger or modified opening widths and heights are available on request

\*\* For standard equipment and optional accessories see page 4

## Fork Lift Grab STAZ-UNI-P – The simple and cost-effective solution

Specially designed for the heavy duty work with forklift trucks.

- Grab rigidly fixed to the carriage plate of the forklift.  
Gripper near to the forklift does not move
- Grips the pack by pressing it towards the gripper close to the forklift. This achieves smallest possible load center of the pack
- Light-weight, with a high working load limit due to the use of high-tensile steel for load bearing parts
- With the large opening range and the grippers of variable length and design, STAZ can be adapted flexibly to all common construction material packages
- Fully hydraulic parallel opening range
- Low maintenance steel plastic sliding guides



STAZ-UNI-P

Type**	Opening Width Main Gripper * W1 mm (in)	Height * E mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Reference
STAZ-UNI-P-1000	580 – 1,260 (22¾ – 49½")	1,000 (39¼")	2,300 (5,100)	440 (970)	57000087



STAZ-KA

Type**	Opening Width Main Gripper * W1 mm (in)	Height * E mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Reference
STAZ-UNI-KA-1000	370 – 1,370 (14½ – 54")	1,000 (39¼")	2,000 (4,400)	690 (1,520)	57000107

## Fork Lift Grab STAZ-UNI-KA – The powerful clamp with integrated crane boom

Specially designed for the heavy duty work with forklift trucks.

- Grab **with integrated crane boom** rigidly fixed to the carriage plate of the forklift, full lifting height
- The clamping movements of the grab are synchronized, the grippers are moving towards the cube simultaneously from both sides
- Light-weight, with a high working load limit due to the use of high-tensile steel for load bearing parts
- With the large opening range and the grippers of variable length and design, STAZ can be adapted flexibly to all common construction material packages
- Fully hydraulic parallel opening range
- Low maintenance steel plastic sliding guides

*Plastic sliding guides come with a 5 year guarantee*

\* Larger or modified opening widths and heights are available on request

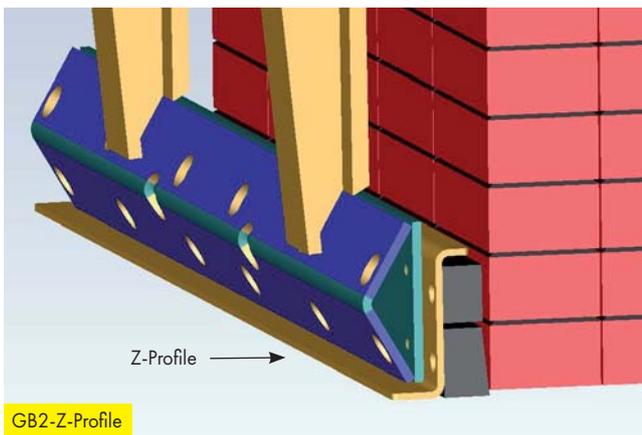
\*\* For standard equipment and optional accessories see page 4

## A firm grasp – grippers for STAZ fork lift clamps

### Rubber Grippers GB2

Highly wear resistant, replaceable, 2-row rubber-metal bars in screwed design.

- Bottom rubber with wedge shaped design to reach clamping pressure on the very bottom of the grippers
- Light-weight, suitable for all models and available in various lengths
- Thick rubber linings ensure a careful handling of delicate concrete products
- Following lengths (mm) available: 720/780/850/1.000/1.100/1.200/1.250/1.300 \*
- **Applications:** 1. Stacks of large concrete elements.  
2. Stacks of paving blocks, each row vertically steel-strapped



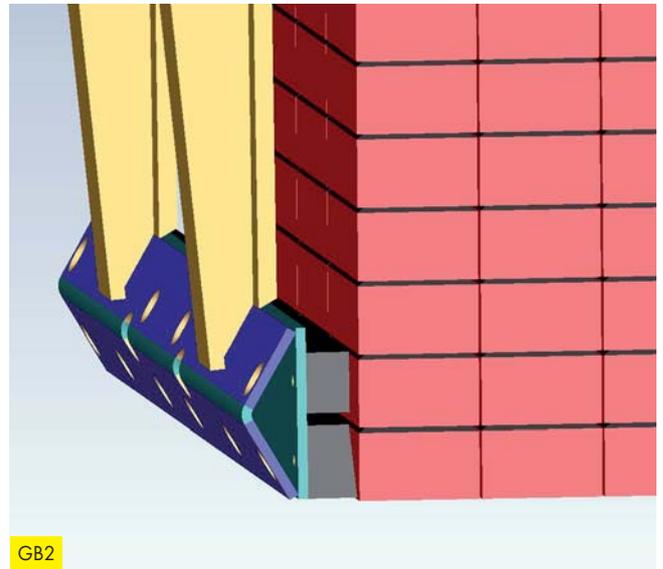
GB2-Z-Profile

### Steel Finger Grippers STB1-S2

A heavy-duty design, extra-deep gripping for transporting not vertically steel strapped pavers.

- Quickly exchangeable against rubber gripper bars GB2-Z with 2 bolts, secured by screws
- Single spring-steel fingers are suitable for almost all block shapes which means the safe handling of most products
- Following lengths (mm) available: 1.000/1.200/1.250/1.300 \*
- Opening width of fork lift attachment grab STAZ is reduced for 60 mm towards the rubber gripper bars
- **Applications:** Stacks of paving blocks which are either not, or only partly, vertically steel-strapped and which are produced on a single layer machine with a gripping width up to 850 mm and a minimum block thickness of 60 mm

Further models of gripping elements, e. g. with colourless rubber or specially adjusted shaped grippers are available on request.

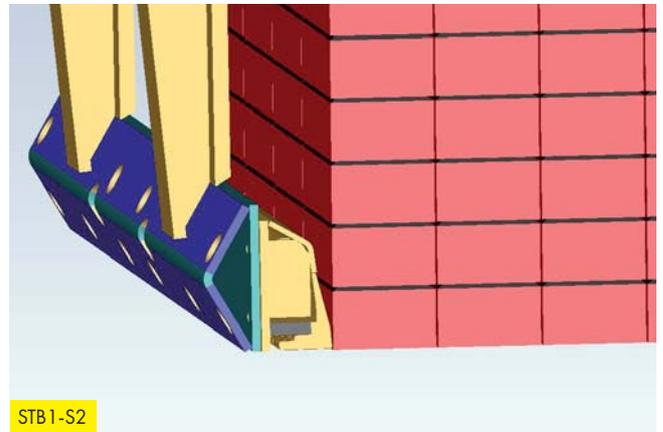


GB2

### Rubber Grippers with quick change system GB2-Z-Profile

Design and utilization as described above, but in this case the rubber elements are screwed on to a Z-shape steel carrier.

- The complete gripper is fixed to the body of the grab by means of 2 pins
- When different length of grippers are needed, they can be exchanged quickly by this quick change system



STB1-S2

\* Further gripper lengths available on request

# Feeding and repackaging on blasting equipment

## Pneumatic Cubing Clamp ATZ-P

Universally suitable for destacking or restacking of one or two layers of paving blocks at a time.

- Available with 2 or 4 sided clamping, depending on the size and shape of the paving blocks
- Mostly applied in conjunction with sandblasting machines
- Following rubber grippers lengths (mm) GB1-L- available: 540/650/700/760/800/850/900/1.000/1.100/1.200/1.250/1.300

### Standard Specifications:

- Crane eye for attaching to crane hook
- Pneumatic cylinder and additional manual adjustment enables a large opening range
- Height adjustment
- Ergonomic guide handle with integrated manual control valve



ATZ-P-4

Type	Opening Width Main Gripper * W1 mm (in)	Opening Width End Gripper W2 mm (in)	Height * E mm (in)	Gripper Length L mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
ATZ-P-2	500 – 1,100 (19¾ – 43")	500 – 1,100 (19¾ – 43")	160 (6¼")	1,200 (47¼")	400 (880)	120 (265)	57500148
ATZ-P-4	660 – 1,420 (26 – 56")	760 – 1,360 (30 – 54")	160 (6¼")	1,200 / 850 (47¼" / 33½")	400 (880)	260 (570)	57500097
ATZ-P-4	660 – 1,420 (26 – 56")	760 – 1,360 (30 – 54")	160 (6¼")	1,200 / 850 (47¼" / 33½")	600 (1,320)	270 (600)	57500097-002
<b>Connection spiral hose</b> , length approx. 5,000 mm (200") / Connection 12 L.							<b>22190009</b>

Reinforced type on request, for example to install in automatic transfer station for concrete blocks. As an alternative to the pneumatic impulsion there are also pure electrical impulsions available.



SRF-900

Type	Dead Weight kg (lbs)	Working Load Limit WLL kg (lbs)	Order-Number
SRF-900	310 (680)	900 (1,980)	57500008

Upon request, please state the type of crane runway.

\* Other opening widths and heights are also available

## Vertical Guide SRF

Telescopic Guide for stationary equipment to lift the various devices (eg. pneumatic cubing clamp, rotating clamp or similar).

For fitting onto the available crane runway to be supplied site-wise.

Work is made easier due to the electrical travelling operation and the electric chain hoist, particularly when moving paving stone equipment. (Stock- and sand-blasting equipment) or when cubing concrete products by hand, using the appropriate device.

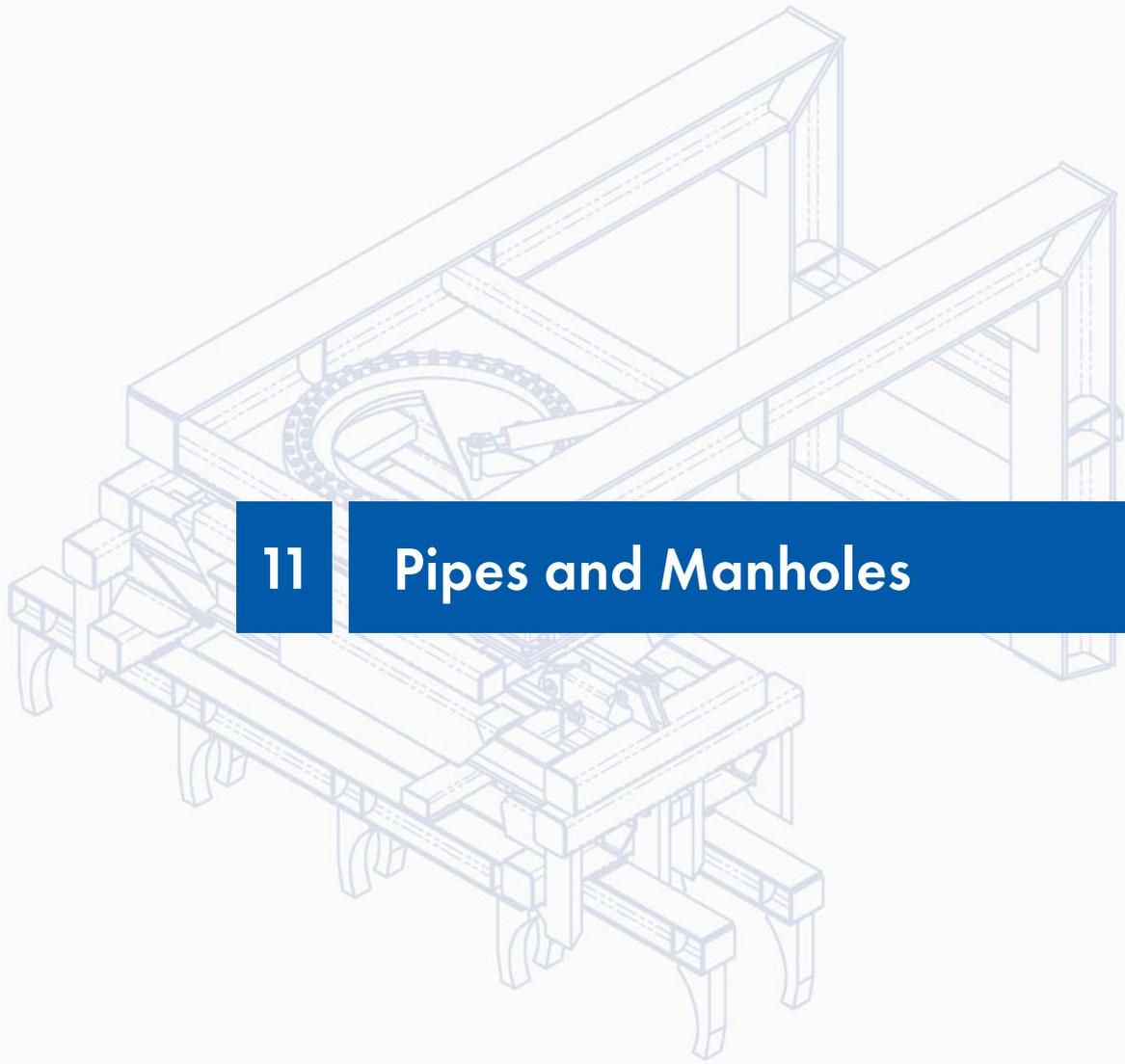
### Standard Specifications:

- Electric chain hoist (choice of lifting power), with 2 lifting speeds (electrical installation to be done by the customer)
- Electric trolley with 2 speeds (electrical wiring done by the customer)
- 2 bottom boom carriages (unpowered), positioned suspended crossways to the direction of travel (to ease the handling of the attached devices and to improve the exact positioning of these devices)
- Wired control unit for 4 functions
- Crane hook for lifting a piece of equipment (with manual turning device which stops itself after each 90°)
- Large plastic slides for the telescopic action



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## Pipes and Manholes



## Clever solutions for efficient and careful handling of manhole rings and cones

### Manhole Ring Clamp RK-I/-II/-III – Mechanical operation, so it can be used with any lifting equipment

- Also suitable for manhole rings (DIN 4034 Part 1 and 2) due to its extra-deep claws and rubber supports
- Adjusted to the dimensions of the manhole ring by bolts
- As only the side wall is gripped, no radial pressure is exerted

#### Standard Specifications:

- Crane eye for attaching to crane hook
- Fully automatic change-over from "full" to "empty", Operator does not have to leave the truck or intervene in the danger zone



RK + ET

### Fork Sleeves for Fork Lift Peaks ET-RK

- Suitable for the RK, off set design to save lifting height

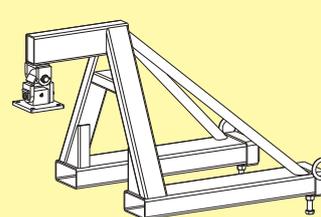
Type	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Nr.
ET-RK with cross link	3,500 (7,700)	130 (285)	47200002
ET-RK swivel hook	3,500 (7,700)	140 (310)	47200028

- Suitable for RK or other devices, mounted directly above the gripper including lifting eye for attaching to crane hook. ET 90° design with manual turning device which arrests itself every 90°

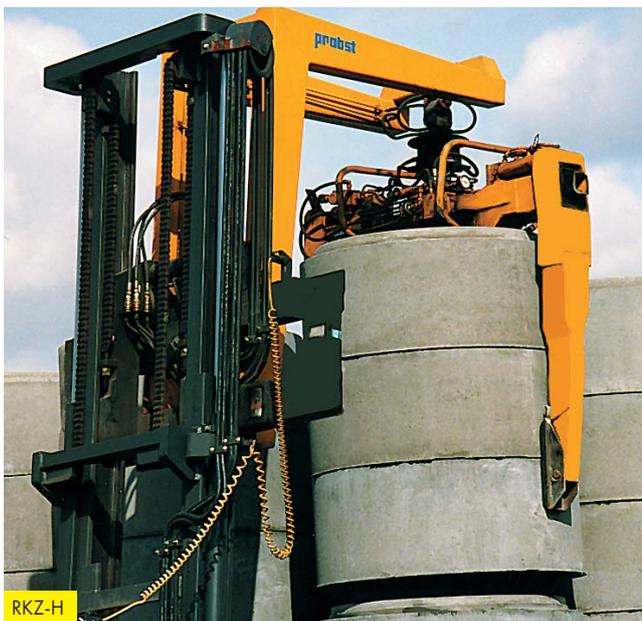
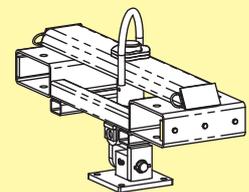
Type	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Nr.
ET with cross link	4,000 (8,800)	65 (145)	47100010
ET 90° incl. cross link	4,000 (8,800)	65 (145)	47110002
ET with cross link USA	4,000 (8,800)	65 (145)	47100106

Type	Gripping Range for Rings ID mm (in)	Number of Grippers	Gripping Range of Claws mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
RK-I	800 - 1,500 (31 ½ - 59")	2	80 - 160 (3 - 6 ¼")	2,000 (4,400)	170 (375)	57200030
RK-I-US	914 - 1,524 (36 - 60")	2	80 - 160 (3 - 6 ¼")	3,200 (7,100)	240 (530)	57200032
RK-II	1,500 - 2,500 (59 - 98")	3	80 - 160 (3 - 6 ¼")	3,000 (6,600)	320 (710)	57200033
RK-III	2,000 - 3,000 (79 - 118")	3	80 - 160 (3 - 6 ¼")	3,000 (6,600)	350 (770)	57200036

#### ET Low level fork sleeves



#### ET



RKZ-H

Crane boom and Hydraulic rotator on request.

### Ring- and Cone Clamp RKZ-H – Suitable for transporting three to four manhole rings

- Can also be used for single manhole cones due to its swinging grippers
- Ideal for clearing the manufacturing area and for loading trucks
- By clamping onto the walls of the products no radial pressure is exerted on the rings and so fairly green products can be removed from the manufacturing surface at a much earlier stage
- An adjustment to the widths is done hydraulically prior to the clamping action. This hydraulic change-over means that to operate the clamping and diameter setting action, only one hydraulic circuit is needed at the fork lift
- Fork lift connecting hoses optionally available

Type	Gripping Range for Rings and Cones ID mm (in)	Working Load Limit WLL kg (lbs)	Height Emm (in)	Dead Weight kg (lbs)	Order-Nr.
RKZ-H	600 - 1,500 (23 ½ - 59")	1,750 (3,850)	1,500 (59")	680 (1,500)	57200011
RKZ-HS	600 - 1,500 (23 ½ - 59")	2,300 (5,100)	2,000 (79")	790 (1,740)	57200012

### Ring- and Cone Clamp RKG – Hydraulically operated universal grab

- Using only one hydraulic circuit the clamp firstly adjusts to the inner diameter and then clamps the ring wall by 3 hydraulically operated rubber-lined gripping claws
- As no radial pressure is exerted, it is possible to handle green products at an earlier stage
- Suitable for use with fork lift trucks as well as loading cranes
- Fork lift connecting hoses optionally available



Type	Gripping Range for Rings and Cones ID mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
RKG-20	600 – 2,000 (23½ – 79")	2,500 (5,500)	600 (1,320)	57200002
RKG-25	600 – 2,500 (23½ – 98")	2,500 (5,500)	620 (1,370)	57200187
RKG-S-25	600 – 2,500 (23½ – 98")	4,000 (8,800)	655 (1,445)	57200110
RKG-S-30	600 – 3,000 (23½ – 118")	3,000 (6,600)	820 (1,810)	57200094

Crane boom and Hydraulic rotator on request.



### Cone Insert Clamp KIG – Fully mechanical operation, thus making it universally suitable for cranes or fork lifts

- Universally suitable for symmetrical and asymmetrical cones with a cover hole diameter of 625 and 800 mm
- Eyelet for cranehook to forksleeve can be fitted later on

#### Standard Specifications:

- Low level fork sleeves to save lifting height
- Exchangeable rubber metal bars for the gentle handling of cones
- Fullyautomatic change-over from "full" to "empty", Operator does not have to leave the truck or intervene in the danger zone

Type	Gripping Range* (Cover Hole) Cones ID mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
KIG-I	625 – 800 (24½ – 31½")	2,000 (4,400)	210 (465)	57200020
KIG-I-USA	625 – 800 (24½ – 31½")	2,000 (4,400)	220 (485)	57200106
KIG-II	625 – 1,000 (24½ – 39")	2,000 (4,400)	280 (620)	57200208

\*The gripping range indicates the minimum and maximum pack measurements, which can be handled with this clamp.

## Efficient handling of manhole rings, cones and basers

### Set Up Device for Manhole Rings AG – Grab and set up rings and cones hydraulically

Makes the production of manhole rings more efficient and user-friendly.

- As no radial pressure is exerted on the rings, green products can be safely handled at an earlier stage
- The set up device can be used to transport and lift rings and cones with an internal width up to 1,200 mm
- Two separate hydraulic circuits are needed on the side of the fork lift truck
- Fork lift connecting hoses optionally available



Type	Gripping Range for Rings and Cones ID mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
AG	500 – 1,200 (19½ – 47")	1,500 (3,300)	425 (940)	57200042
AG-S	625 – 1,200 (24½ – 47")	2,000 (4,400)	680 (1,500)	57200043



### Turning Device for Concrete Basers WG/WG-S

Allows to turn e.g. manhole-basers by 180° after production (turning range 360° endless).

- Because the products are turned at the longitudinal axle of the fork lift, there is very little extension so that the centre of gravity of the load and the device are very close to the fork lift
- Both, the gripping and turning manoeuvres are fully hydraulic

#### Standard Specifications:

- Grippers lined with rubber metal bars and double-hinged so that they fit the various diameters
- Fork lift connecting hoses optionally available

Type	Suitable for Outer Diameter mm (in)	Minimum Height mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
WG	900 – 1,580 (35½ – 62¼")	900 (35½")	3,000 (6,600)	1,500 (3,300)	57200165
WG-S	1,200 – 2,200 (47 – 87")	900 (35½")	4,500 (9,900)	1,900 (4,200)	57200169

Larger or modified opening widths are available on request.

\*The gripping range indicates the minimum and maximum pack measurements, which can be handled with this clamp.

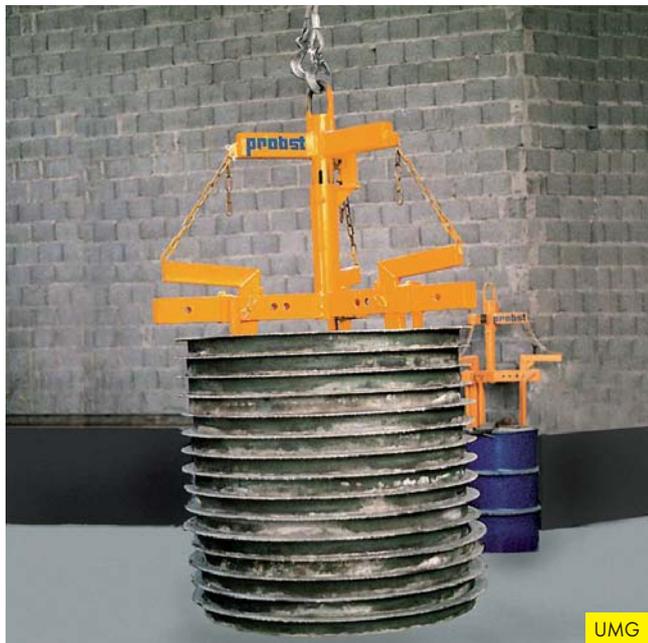
## Gantry Crane – Rotating Clamp for Manhole Rings and Basers PWG-S

Hydraulic clamp, suitable to lift and rotate large concrete manhole rings and basers by 180°.

- The grippers are specially adapted for manhole rings and basers, 2 opposite surfaces without an inlet or outlet are needed



Type	Suitable for outer diameters mm (in)	Turning Range	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
PWG-S-4.5	1,200 – 1,800 (47 – 71")	180°	4,500 (9,900)	2,000 (4,400)	57400016
PWG-S-8	800 – 1,500 (41 ½ – 59")	180°	8,000 (17,600)	3,144 (6,930)	57450015



## Steel Pallet Grab UMG

For lifting stacks of steel pallets and subsequent loading them into the magazine of the manhole manufacturing machine.

Universally adjustable.

- Fully mechanical operation

### Standard Specifications:

- Crane eye for attaching to crane hook
- Fully automatic change over from "full" to "empty", operator does not have to leave the truck or intervene in the danger zone

Type	Opening Range for Steel pallet ID mm (in) *	Number of Grippers	Height E mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
UMG-30/80	300 – 800 (11 ¾ – 31 ½")	3	1,200 (47")	1,000 (2,200)	90 (200)	57200051
UMG-60/150	600 – 1,500 (23 ½ – 59")	3	1,200 (47")	1,500 (3,300)	150 (330)	57200050
UMG-150/300	1,500 – 3,000 (59 – 118")	3	1,200 (47")	2,000 (4,400)	290 (640)	57200063

\*The gripping range indicates the minimum and maximum pack measurements, which can be handled with this clamp.

# Great rationalisation potential in pipe handling

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Pipes and Manholes

## Turning Device for Concrete Pipes UG

Makes the handling of concrete pipes after production more efficient.

- Due to large surfaced pressure pads, little pressure is exerted onto the pipe, meaning that green products can be safely handled at an earlier stage
- As the pipes are turned in a raised position, there is no danger of damaging the joints or the steel pallets
- Because of the parallel movement of the gripping arms, there is less space required between the pipes
- Fork lift connecting hoses optionally available



UG

Type	Suitable for outer diameters mm (in)	Usual trade opening range ID mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
UG-3.5	380 – 1,320 (15 – 52")	300 – 1,000 (11¾ – 39¼")	3,500 (7,700)	820 (1,810)	57300004
UG-4.5	400 – 1,580 (15¾ – 62¼")	300 – 1,200 (11¾ – 47¼")	4,500 (9,900)	1,200 (2,650)	57300025
UG-6.5	400 – 1,800 (15¾ – 71¾")	300 – 1,500 (11¾ – 59")	6,500 (14,300)	1,970 (4,350)	57300030

Special models eg. for moving 2 pipes at once, available on request.



WG-R

Type	Opening Width W mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
WG-R	300 – 1,300 (11¾ – 51")	3,000 (6,600)	1,400 (3,100)	57300044
WG-SR	300 – 1,300 (11¾ – 51")	4,500 (9,900)	1,700 (3,750)	57300051

Special model available on request.

## Rotating Clamp for Concrete Pipes WG-R

Proven rotation of several pipes in one operational sequence, regardless of accuracy of individual pipes interspace.

- Length of rubber grippers L = 1,650 mm
- The clamp attachment enables the rotating of the pipes by ± 90° (rotating range 360° endless) – without shunting the forklift
- It is possible to pick up 3 pipes with an ID of 300 – 400 mm, 2 pipes with ID 500 – 600 mm or 1 pipe up to 1,000 mm ID
- Fork lift connecting hoses optionally available

### Small Pipe Turning Device FUG

Makes handling of small pipes more efficient.

- Up to 5 small pipes with an ID of 300 mm and a length of 1 m
- With manual adjustment to accommodate other widths
- The pipes are grabbed from production vertically and can be stored horizontally due to the swivel mechanism
- As the pipes are gripped on their walls, no radial pressure is exerted. Green products can be handled safely at an earlier stage
- 2 separate hydraulic circuits are needed from the fork lift truck
- Fork lift connecting hoses optionally available



FUG

Type	Gripping Range	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
FUG	up to 5 pipes with a width of 300 mm (11 3/4")	1,500 (3,300)	450 (990)	57300006



MFD

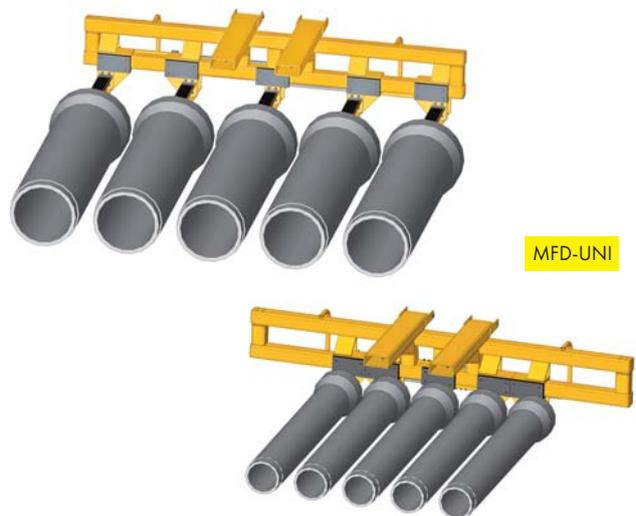
### Multiple Forks MFD

For picking up several concrete pipes at the same time.

- Attachment will be lifted by the forks of the fork lift and secured by a latch
- The spreader bar is equipped with rubber so that the pipes cannot be damaged
- Distance between the bells of the pipes: 20 mm
- For easy transportation the storage yard and for quick loading of lorries

### Multiple Forks MFD-UNI

- Universally suitable for up to 5 pipes of ID 300 – 600
- With hydraulically movable forks



MFD-UNI

Type	ID of pipe mm (in)	No. of pipes	Length of pipes mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
MFD-25-5	250 (9 3/4")	5	2,000 – 3,000 (78 3/4 – 118")	2,600 (5,700)	300 (660)	57400001
MFD-30-5	300 (11 3/4")	5	2,000 – 3,000 (78 3/4 – 118")	2,000 (4,400)	330 (730)	57400085
MFD-40-4	400 (15 3/4")	4	2,000 – 3,000 (78 3/4 – 118")	2,200 (4,850)	350 (770)	57400086
MFD-50-3	500 (19 3/4")	3	2,000 – 3,000 (78 3/4 – 118")	2,500 (5,500)	375 (830)	57400104
MFD-60-3	600 (23 1/2")	3	2,000 – 3,000 (78 3/4 – 118")	4,300 (9,500)	400 (880)	57400026
MFD-UNI*	300 – 600 (11 3/4 – 23 1/2")	5	2,000 – 3,000 (78 3/4 – 118")	5,000 (11,000)	1,200 (2,650)	57400067

On request additional price for polyamid lining of forks to protect the pipes.

Other widths and numbers available on request.

\* w/hydraulic adjustment of the forks.

## Speed up production processes in the concrete plant and make them safe

### Large Pipe Clamp RK-XL-IV/-V/-VI

With the mechanical large pipe clamp, concrete pipes up to ID 2800 mm can safely be grabbed vertically after production and placed on a tilting table.

- Fully mechanical operation, making it suitable for use with any lifting equipment
- Gripping only at the side wall, no radial pressure is exerted
- Adjustable to the dimensions of the pipe by hand crank

#### Standard Specifications:

- Crane eye for attaching to crane hook
- Fully automatic change-over from "full" to "empty", operator does not have to leave the truck or intervene in the danger zone



KT

### Gantry Crane Rotating Clamp for Concrete Pipes PWG-R

Special hydraulic clamp, designed to lift and rotate large concrete pipes by 90°.

- Space saving use on gantry crane
- Fully hydraulic clamp, adjustable to various diameters
- Large surface pressure pads with swinging rubber grippers ensure a steady pressure. Production area can be cleared at an earlier stage
- Because of the parallel movement of the gripping arms less space is required between the pipes
- Hydraulically powered by an electro hydraulic pump unit
- Incl. electrical installation, as requested

Other opening widths, electric voltages and load capacities are available on request!

\* The gripping range indicates the minimum and maximum pack measurements, which can be handled with this clamp



RK

Type	Gripping Range* for Rings ID mm (in)	Number of Gripping Claws	Gripping Range of Claws mm (in)	Working Load Limit WLL	Dead Weight kg (lbs)	Order-Number
RK-XL-IV	1,000 – 1,800 (39¼ – 70¾")	2	85 – 250 (3¼ – 9¾")	7,500 (16,500)	600 (1,320)	57300001
RK-XL-V	1,500 – 2,600 (59 – 102¼")	2	85 – 300 (3¼ – 11¾")	15,000 (33,000)	1,700 (3,750)	57300002
RK-XL-VI	1,500 – 2,800 (59 – 110¼")	2	100 – 300 (4 – 11¾")	25,000 (55,100)	2,680 (5,900)	57300009

Special designs for larger and heavier pipes on request

### Tilting Table KT

Using the Large Pipe RK, the concrete pipes up to 3 m length are placed on the tilting table. Then the pipes are tilted hydraulically by 90°. The pipes, now lying flat, can then be removed by a fork-lift truck or crane.

#### Standard Specifications:

- Electro-hydraulically operated tilting table
- Tilting table equipped with fork sleeves for fork lift trucks so that the whole device can easily be moved

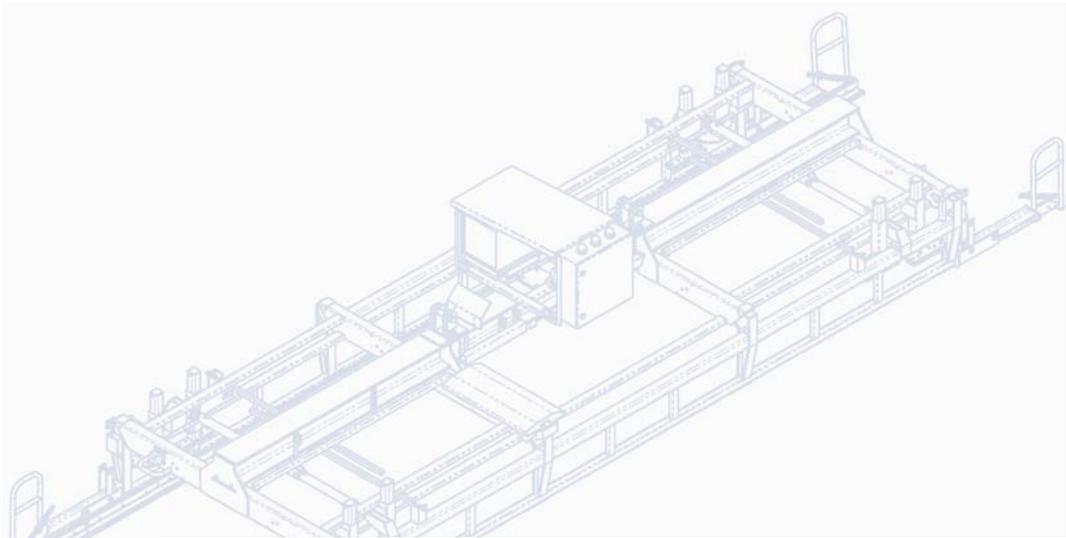
Type	Internal Table Width mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
KT-15	3,450 (135¾")	15,000 (33,100)	6,000 (13,200)	57400008
KT-25	3,600 (141¾")	25,000 (55,100)	15,000 (33,100)	57400007

Special designs for larger and heavier pipes on request



PWG-R

Type	Suitable for outer diameters mm (in)	Turning Range	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
PWG-R-3	400 – 1,200 (15¾ – 47¼")	100°	3,000 (6,600)	1,500 (3,300)	57450004
PWG-R-7	400 – 1,880 (15¾ – 74")	100°	7,000 (15,400)	3,150 (6,940)	57450006
PWG-R-13	1,080 – 2,750 (42½ – 108¼")	100°	13,000 (28,700)	9,200 (20,300)	57450008
PWG-R-20	1,800 – 3,550 (70¾ – 139¾")	100°	20,000 (44,100)	15,000 (33,100)	57450007



12

## Special Devices – Customer-specific solutions

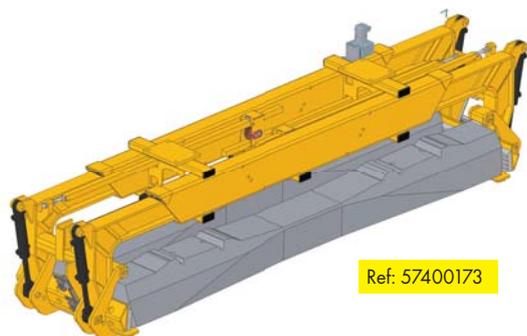


## Examples for customer-specific solutions

### Hydraulic grab for gripping 1 – 3 T-profiles concrete beams

For T-profile parts with a max. length of 8,000 mm and a max. total weight of 1,500 kg.

- With flange plate for mounting a hydraulic rotator



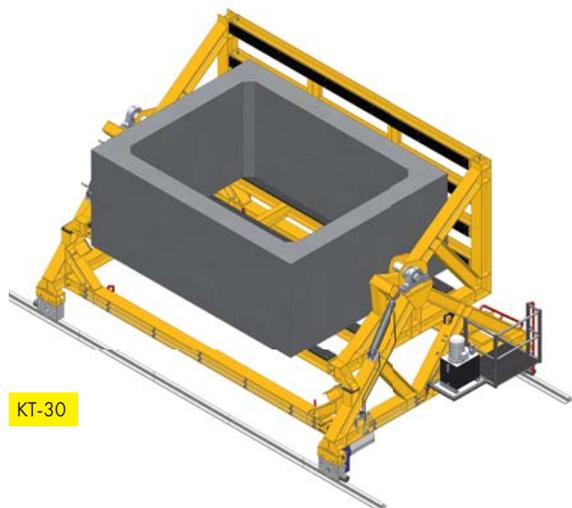
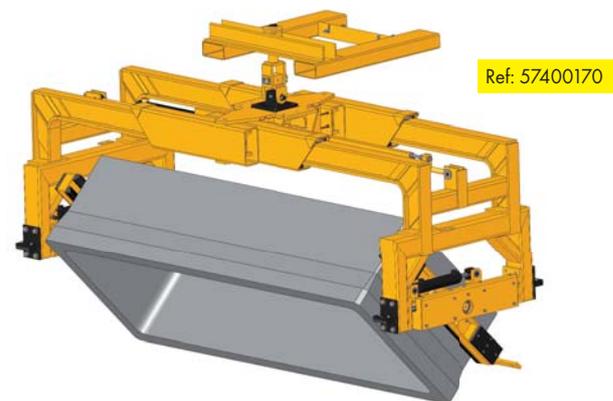
### Hydraulic grab – for demolding and turning concrete elements (burial chambers)

Concrete elements up to a max. weight of 1,000 kg produced upside down. Using this hydraulic grab, these elements can be removed from the mold without damage, turned hydraulically through 180 degrees and set down in the correct installation position.

- With fork sleeves for lifting forks (optional)

### Hydraulic sleeper grab – for gripping 2 concrete sleepers at the same time

For concrete sleepers Type B70 with 1,800 – 2,600 length. Working Load Limit 1,000 kg.



### Hydraulic Tilting Table KT-30 – for Tilting rectangular concrete box culverts

Suitable for tilting rectangular concrete chambers through 90 degrees, max. load capacity 30 t

- Stored on a base frame, rotational drive via hydraulic cylinders
- Special version with bogie

### Vacuum turning device – for demolding and simultaneously turning L-stones

Using vacuum suction power, L-stones up to a max. weight of 1,800 kg can be removed from their mold, turned through 180 degrees and set down precisely.



### Customer-specific solutions

Please clarify technical specifications such as opening widths, heights, working load limits etc.

**Send us your requirement profile: we will find the right solution!**

## Concrete Pipe Handling System RUS

Hydraulic gripping system suitable for pipes with an inside diameter of 250 mm to 1200 mm.

- The lower parts of the clamp are picked up and locked with the upper part of the clamp



RUS



RUS



RUS

## Universal Pipe Grab System URS-ST

Hydraulically operating gripper for all pipes with gripping range of 250 – 1200 mm.

- The lower parts of the clamp are picked up and locked with the upper part of the clamp
- Turning range 90° for loading the truck lengthwise or crosswise



URS-ST



Ref: 57400100-001

## Setting-Up Device for Noise Protection Walls

Hydraulic operated setting up device for noise protection walls up to max. 5 t.

- With radio remote control for the following functions: grabbing, setting-up, adjustable centre of gravity and distance control
- The wall-elements are taken out of a mould, hydraulically turned by 90° and set down vertically on transport palettes

## Laying Clamp for Hollow Core Slabs VZ-D

Mechanical clamp in various special designs as desired by the customer.

- With automatic release for the fully automatic switch-over from "full" to "empty"
- Easily attachable and removable safety chains with deposit tray
- Working load limit up to 6 t



VZ-D

## Special grab for beams

Hydraulically operated fork lift attachment grab for handling several concrete beams at once.

- Mainly used for clearing the production space
- Here in conjunction with a crane boom with extension telescoping



Special grab for beams



FTZ-UNI-50

## Grab for Prefabricated Concrete Products FTZ-UNI-50 with Spreader Bar

Once more proof of the advantages of the modular design system of Probst products:

- Once more proof of the advantages of the modular design system of Probst products: Two mechanical operated standard products, FTZ-UNI-50, combined with a spreader bar. Concrete elements of up to 8 t can be carefully handled quick and easy

### Customer-specific solutions

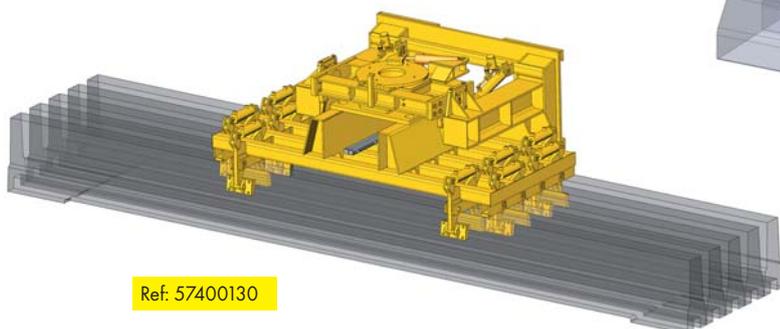
Please clarify technical specifications such as opening widths, heights, working load limits etc.

**Send us your requirement profile: we will find the right solution!**

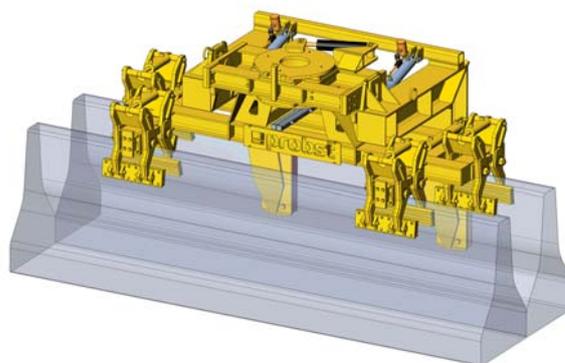
## Concrete Highway Divider Clamp BSZ

Hydraulic concrete highway divider clamp in special design for fast and efficient handling of highway divider elements.

- Special design twofold
- Special design fivefold



Ref: 57400130



Ref: 57400154

## Concrete Sleeper Grab

Allows simultaneous grabbing and application of a whole layer of railway sleepers.

- For loading rail transport systems for track construction
- Grab range respectively for sleeper lengths 220 cm, 240 cm, 250 cm, 260 cm and 270 cm
- With 2 suspension points for 2 crane hooks
- Working Load Limit 12,500 kg



## Vacuum Spreader Bar VT-6000-D

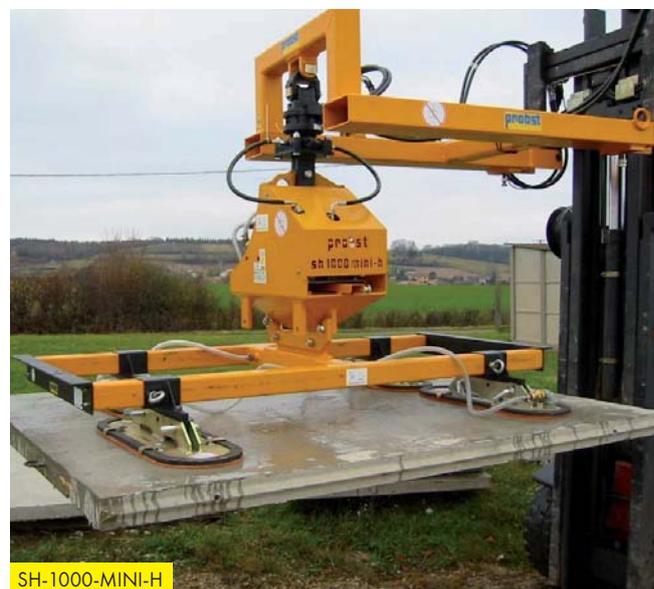
Vacuum Spreader Bar VT with diesel engine for generating the vacuum.

- Lifting equipment can be a fork lift truck or a crane
- Equipped with 4 adjustable 1500 kg suction plates

## Vacuum Lifting Device SH-1000-MINI-H with Spreader Bar

Based on the modular design system we can easily combine cost efficient customized Vacuum Lifting Devices for Fork Lift Trucks. It is specially designed for transportation of large-sized concrete slabs.

- A standard version of the Vacuum Lifting Device SH-1000-MINI-H is equipped with fork sleeves, hydraulic rotor, and a spreader bar with 4 standard suction plates
- The suction and releasing process is controlled from the driver seat in the cabin



### Fork Lift Grab STAZ (AKZ) -750 with rotating grippers

This specially designed fork lift attachment grab is used to grip several box sections and rotate them by 180 degree.

- This box sections are casted upside down and have to be rotated after production for storage, shipment and installation in order to eliminate the mold distance between each box. A special crossbar is fixed to the rotating grippers
- This crossbar is used to shift the box sections towards one another by using the hydraulic function of the sideshift of the forklift



STAZ (AKZ) -750



Vacuum Load-Suction Device with 180° Turning Unit

### Vacuum Load-Suction Device with 180° Turning Unit

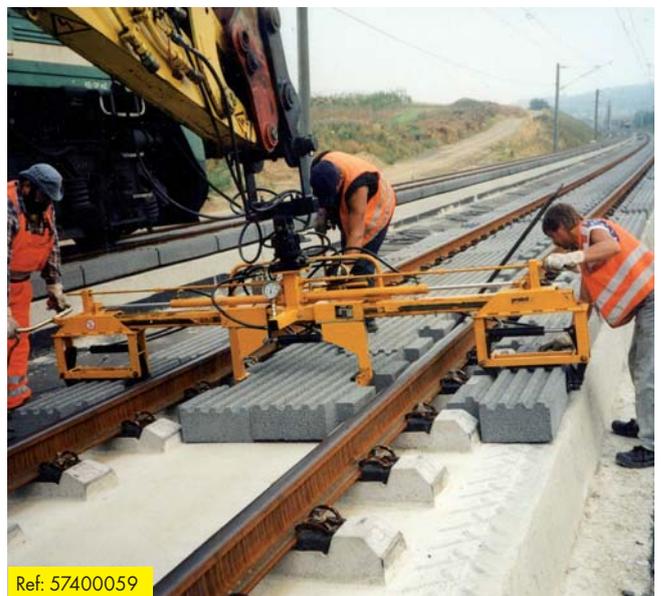
Vacuum load-suction device for internal use at stripping and packaging of windowsills.

- The windowsills are produced overhead, taken off the form and turned by 180° for further process or packaging

### Special Laying Grab for Noise- Protection-Elements

Efficient installation of noise-protection-elements between rail-tracks and railway sleepers.

- The grab does the exact positioning of the 4 elements as well as the precise installation



Ref: 57400059

# Efficient turning of concrete products

## Pneumatic Rotating Clamp P-WG

- For rotation by 90° or 180° of concrete products as for example slabs, side-angles, kerb stones
- Pneumatic clamping and rotating around the longitudinal axis

### Standard Specifications:

- Lifting eye for attaching to crane hook
- Pneumatic closing cylinder and additional manual adjustment for a larger opening widths
- Manual-controlled valves for clamping and rotating at the guide handle
- Grippers coated with exchangeable rubbers

The Pneumatic Rotating Clamp can be individually adjusted to your requirements.

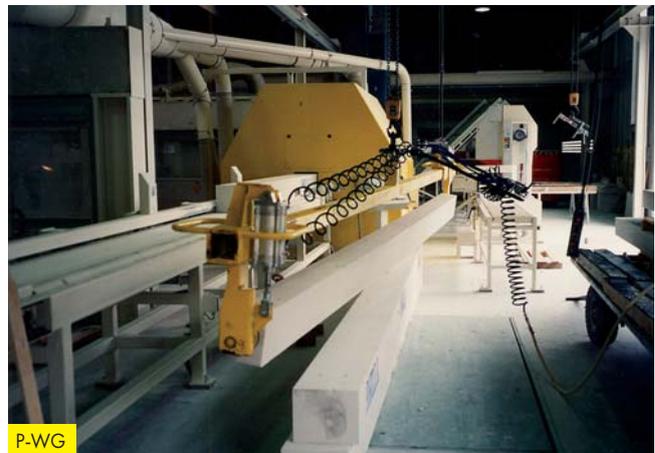


P-WG

Type	Opening Width mm (in)	Inside Height mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order- Number
P-WG	600 – 2,000 (23 ½ – 78 ¾")	285 (11 ¼")	500 (1,100)	200 (440)	57400109



P-WG



P-WG

## Mechanical Mould Clamp for Steel Moulds

Mechanical clamp for interlocking handling of steel moulds for railway sleepers.

- Includes height-adjustable support with centring aid
- Fully automatic trip mechanism for switch-over from „full“ to „empty“
- With lifting eye for crane hook

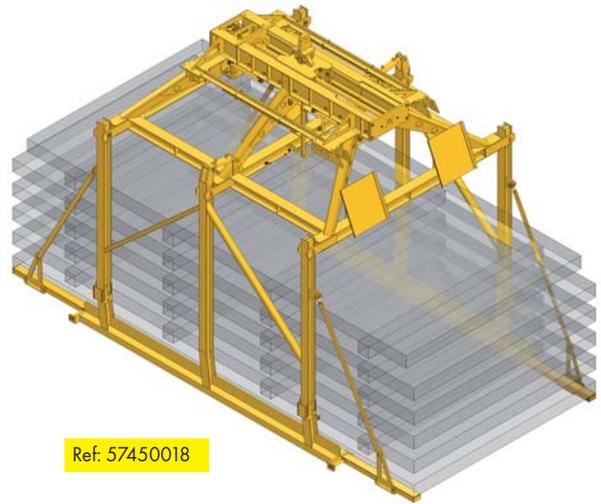


Ref: 57400177

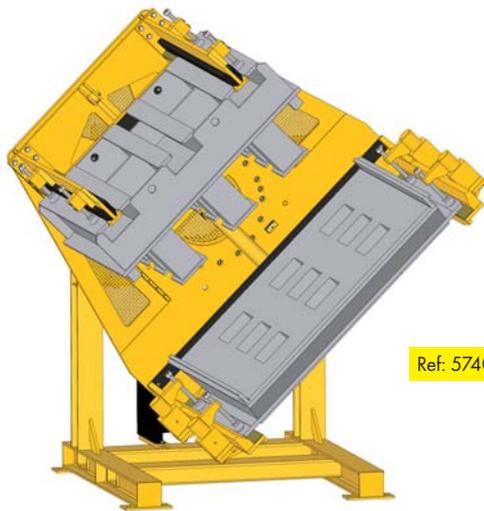
## Hydraulic clamp for stacked ceiling elements

Pre-packed stacks of ceiling elements are grabbed and applied/loaded with the gantry crane in a single step.

- Individual ceiling elements can also be grabbed and compiled into stacks
- Length of the clamp jaws can be adjusted
- The suspension point can be moved by motor so that the ceiling elements hang exactly horizontally



Ref: 57450018



Ref: 57400142

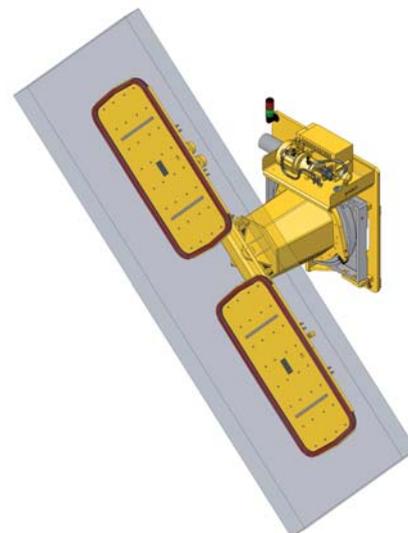
## Lifting and turning device for concrete block moulds

Suitable for maintenance and repair work on tops and bottoms of concrete block moulds in the concrete plant.

- Mold box and top part with shoes can be locked separately and turned by 360 degree

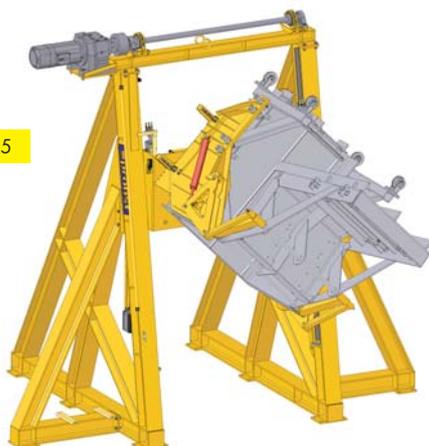
## Forklift grab with vacuum turning unit for concrete elements

The concrete elements are sucked in and rotated 90 degrees into the assembly position.



Ref: 57600027

Ref: 57400145



## Lifting and turning station for the production of wall segments

Wall segments are produced in large quantities in an automated process.

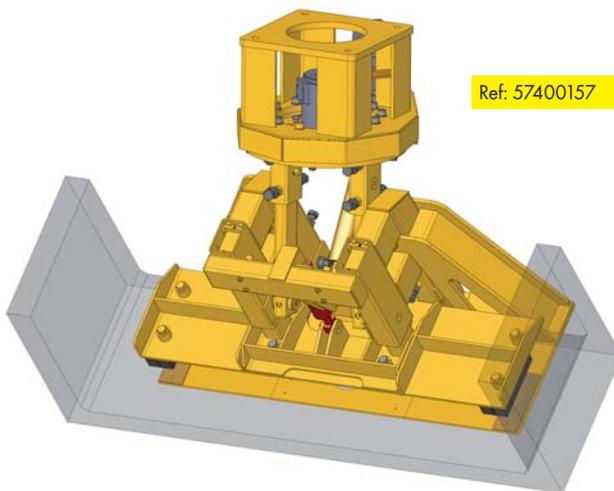
- In this station, the moulds are picked up with the hardened wall segments, lifted, and turned by 180 degrees to remove the moulds from the concrete elements

### Automatic packetising clamp for light shaft elements

The light shaft elements are picked from the production tray, tilted by 90 degrees and placed on a transport pallet.

- For a better stacking, the entire clamp unit can be turned by 180 degrees

Ref: 57400157

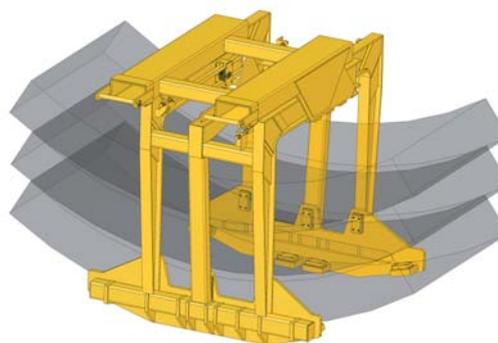


Ref: 57000157

### Fork Lift Grab Tübbing (tunnel element)

These tunnel elements are clamped gently and can then be transported with the fork lift.

- Attachments also possible for multiple transport



### Forklift grab for moving special cladding elements in a tunnel

The extremely fragile concrete elements are clamped with vacuum suction plates, hydraulically turned by 90 degrees, then positioned with millimetre precision in front of the tunnel wall.



Ref: 47600087



**Send us your requirement profile:  
we will find the right solution!**

## The clamp for rational sorting

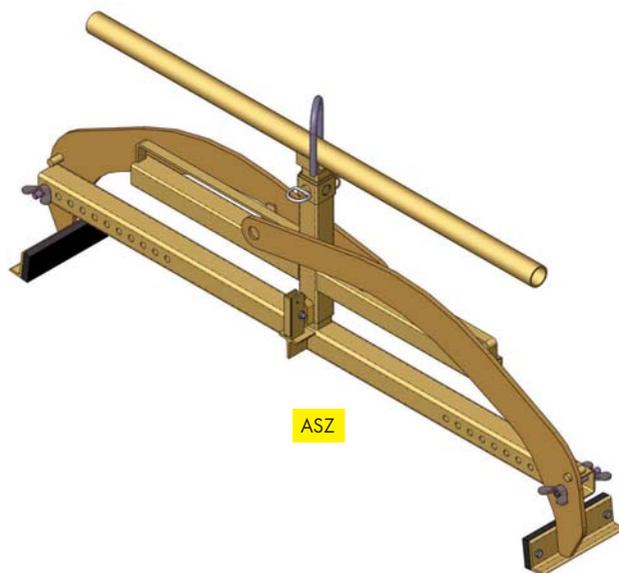
### Sorting Clamp ASZ / ASZ-R

This universal pick out clamp has a wide adjustable opening range and can be used for a wide variety of products.

There are two different variations:

1. **ASZ** for the efficient pick out of concrete steps, kerb stones and similar elements
2. **ASZ-R** for the handling of sewerage elements.

The grippers are prism-shaped to grip round shape of the rings



#### Standard Specifications:

- Lifting eye for attaching to crane hook
- Handle with turning range 90° depending on space
- Exchangeable rubber metal bars, to suit the requirements
- Automatic release for fully automatic switch-over from "full" to "empty", operator does not have to leave the truck or intervene in the danger zone

**Please note:** Designed and suitable to grip single stones or elements only. This is not the proper equipment for handling a complete row of stones.

Type	Pack width W mm (in)	Inside Height mm (in)	Gripper Length L mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
ASZ ①	600 – 1,200 (23½ – 47")	120 (4¾")	200 (7¾")	250 (550)	26 (55)	53100259-005
ASZ-R ①	∅ 620 – 1,200 (24½ – 47")	100 (4")	300 (11¾")	250 (550)	34 (75)	53100281-003

### Pneumatic Sorting Clamp ASZ-P

This universal pick out clamp offers a versatile use due to large adjustable opening width. Perfect use for slabs, kerb stones and wall-rings for plants, etc.

- Suitable for attachment to a vacuum lifting unit, to an overhead or jib crane
- 150 mm stroke: the further range of opening width is mechanically adjustable

#### Standard Specifications:

- With flange plate to attach to a vacuum lifting unit
- Pneumatic closing cylinder and additional manual adjustment to achieve a larger opening width

Type	Opening Width gripping inside mm (in)	Opening Width gripping outside mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order- Number
ASZ-P	270 – 600 (10¾ – 23½")	220 – 1,050 (8¾ – 41¼")	120 (265)	32 (70)	57400023

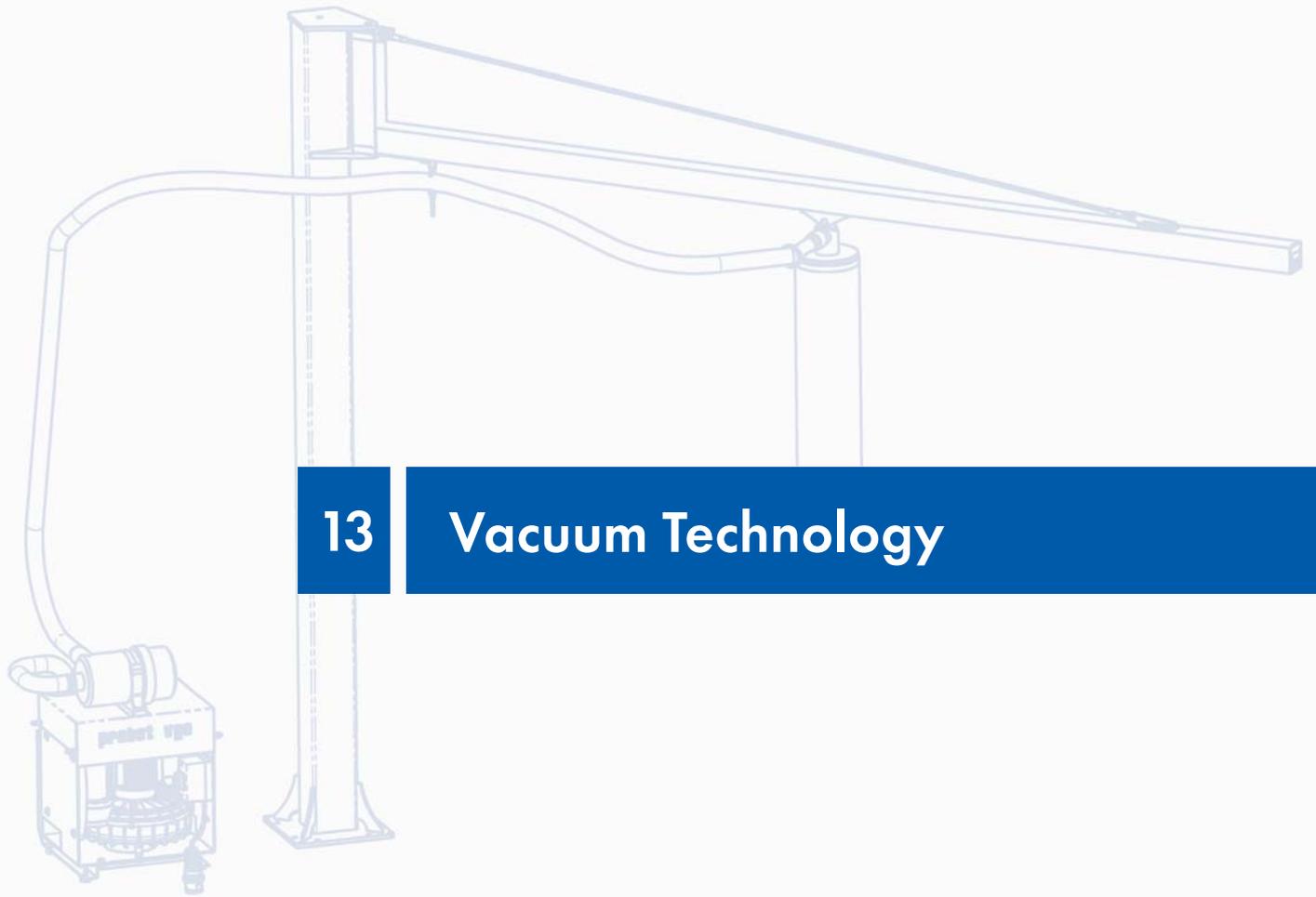
Other opening widths and heights are available on request.



① Durable surface protection by galvanizing

# 13

# Vacuum Technology



# Vacuum technology in internal use

13

Vacuum Technology

## VACUSPEED VXS – The quick and handy vacuum hose lifter

Ensures best ease of working combined with highest productivity when handling pavers, slabs etc. Ideal for quality control work!

- Dense/not porous materials of all types and weight up to max. 35 kg (75 lbs) or 50 kg (110 lbs) can be easily lifted, sorted, packed or laid
- Can be operated easily, exactly and quickly. No manual lifting force necessary
- Precise one hand operation, suitable for left- and right-hander
- Suction plate can swivel by 90 degrees in order to pick up and handle products vertically
- High lifting speed of up to 50 m/min (54.7 ft/min)
- No need to get access sideways to the products to be sorted for gripping. Access from the top is fully sufficient
- With quick change system for different suction plates (SPS)
- The VACUSPEED VXS-35-P and 50-P can be suspended to any crane system within seconds and is ready to work (See opposite page)



### Standard specifications:

- Electric vacuum pump, motor protection switch, dust filter, lifting unit and operating unit with quick-change device for suction plate

Type	Power	Electrical Data AC	Lifting Height mm (in)	Working Load Limit WLL* kg (lbs)	Order-Number
VXS-35-P	1,25 kW / 40 m³/h 1,5 kW / 48 m³/h	(50HZ)190-255V/330-440V AC3 (60HZ)190-290V/330-500V AC3	1,500 (59") +/- 50 mm (2")	35 (75)	57600034
VXS-50-P	2,4 kW / 67 m³/h 3,0 kW / 77 m³/h	(50HZ)190-255V/330-440V AC3 (60HZ)190-290V/330-500V AC3	1,500 (59") +/- 50 mm (2")	50 (110)	57600041

Type	Dimension mm (in)	Working Load Limit WLL kg* (lbs)	Order-Nr.
VXS-SPS-35	175 x 175 (7 x 7")	35* (75*)	47610026
VXS-SPS-35	240 x 160 (9½ x 6¼")	35* (75*)	47610022
VXS-SPS-50	194 x 194 (7½ x 7½")	50* (110*)	47610024

\* Value at 600 mbar low pressure

Other dimensions and shapes on request.

## Aluminium Smooth Running Cranes for VACUSPEED VXS

The Probst aluminum wall and pillar swing cranes are particularly designed for operation with vacuum hose lifter VACUSPEED VXS.

The vacuum hose lifters eliminate the manual lifting job completely, but swinging the crane arm around or pulling the suspension along the jib can be very burdening when using standard heavy crane systems.

**The aluminium crane systems from Probst are offering ergonomically advantages by smooth running and lightweight design.**



VXS-ASSK-65-4

### Pillar Swing Crane VXS-ASSK-65-4

Same specifications as Wall Swing Crane AWSK, but slewing range 270°, length and working load limit see table.

**Important notice:** The assumption for mounting the pillar swing crane using the set of dowels is a minimum thickness of the concrete floor of 200 mm (7¾") and a concrete quality C20/25. (Simple installation, no extra flange plates needed).

#### Optional accessories:

- Special anchor with mortar cartridge and bushes, 8 times, threaded M 12, thickness of plate min. 8 mm (1/3") max 25 mm (1").



VXS-AWSK-65-4

### Wall Swing Crane VXS-AWSK-65-4

The equal load distribution of the rollers of roller suspension eliminates cocking of the suspension, even when pulled sideways.

- Special bearings of the swinging arm and the use of light weight aluminium are ensuring easy and smooth operation
- Special, long lasting rollers
- Modern design
- Adjustable stops to restrict the the movement along the jib if required
- Slewing range 180°
- Optimized height of the jib
- The static for fixing the crane to the wall has to be checked by the customer
- CE approved

#### Comes with:

- adjustable stop, carrier for pipe or cable, roller suspension for hose lifter

Type	Slewing Range	Reach mm (in)	Working Load Limit WLL kg (lbs)	Order-Number
VXS-ASSK-65-4	270°	4,000 (157½")	65 (145)	42000137
VXS-AWSK-65-4	180°	4,000 (157½")	65 (145)	42000138
VXS-ASSK-KP-65-4	For crane 65 kg, reach 4m			42000157
DS-ASSK	Set of dowel for pillar swing crane			42000100

# Not only easy lifting – easy swinging too

13

## Aluminium Smooth Running Cranes for Vacuum Hose Lifters

Probst aluminium wall- and pillar jib cranes are designed specifically for the use of vacuum hose lifters with a working load limit of up to 300 kg.

The vacuum hose lifters eliminate the manual lifting job completely, but swinging the crane arm around or pulling the suspension along the jib can be very burdening when using standard heavy crane systems.

The aluminium crane systems from Probst are offering ergonomically advantages by smooth running and lightweight design.

Vacuum Technology



### Wall Swing Crane AWSK

- Special bearings of the swinging arm and the use of light weight aluminium are ensuring easy and smooth operation
- Special, long lasting rollers
- Modern design
- Innovative geometrie of the jib profile
- Adjustable stops to restrict the the movement along the jib if required
- Slewing range 180°
- Optimized height of the jib
- The static for fixing the crane to the wall has to be checked by the customer
- CE – approved

#### Comes with:

- Adjustable stop, carrier for pipe or cable, roller suspension for hose lifter



Type	Slewing Range	Reach mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight/ crane jib kg (lbs)	Total Weight kg (lbs)	Order- Number
AWSK-150-3	180°	3,000 (118")	150 (330)	31 (70)	46 (100)	42000132
AWSK-150-4	180°	4,000 (157½")	150 (330)	37 (80)	52 (115)	42000126
AWSK-150-5	180°	5,000 (196¾")	150 (330)	60 (132)	81 (180)	42000127
AWSK-300-4	180°	4,000 (157½")	300 (660)	52 (115)	73 (160)	42000128
AWSK-300-5	180°	5,000 (196¾")	300 (660)	60 (132)	81 (180)	42000129

### Pillar Swing Crane ASSK

Same specifications as Wall Swing Crane AWSK, but slewing range 270°, lenth and working load limit see tabel.

**Important notice:** The assumption for mounting the pillar swing crane using the set of dowels is a minimum thickness of the concrete floor of 200 mm (7¾") and a concrete quality C20/25. (Simple installation, no extra flange plates needed).

#### Optional accessories:

- Set of dowelps DS-ASSK, consisting of the following components: special anchor with mortar cartridge and bushes, 8 times, threaded M 12, thickness of plate min. 8 mm (1/3") max 25 mm (1").

Type	Slewing Range	Reach mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight/ crane jib kg (lbs)	Total Weight kg (lbs)	Order- Number
ASSK-150-4*	270°	4,000 (157½")	150 (330)	37 (80)	167 (370)	42000146
ASSK-150-5*	270°	5,000 (196¾")	150 (330)	60 (132)	222 (490)	42000147
ASSK-300-4*	270°	4,000 (157½")	300 (660)	52 (115)	327 (720)	42000124
ASSK-300-5*	270°	5,000 (196¾")	300 (660)	60 (132)	414 (910)	42000125
DS-ASSK	Set of dowel for pillar swing crane					42000100

\* Crane height up to bottom edge of crane boom 3200 mm

## Vacuum Hose Lifter Components

- As an alternative to the complete Jumbo Travelling Crane (refer to page 34, you can put together a special vacuum-hose-lifter-station, according to your particular needs
- Pillar and wall swing cranes or other types of cranes can be used
- We will gladly advise you!

## Vacuum Turbine Unit VGE-SB

**Powered with electric engine:** Complete, ready-to-run unit for the electrical production of vacuum, with the following standard features:

- Strong, compact housing to be installed on the floor or at the wall
- Powerful vacuum turbine with 3-phase electric engine, for maximum low pressure 520 mbar
- With large volume dust-filter with pre-separation for rough conditions in construction industry, including filter-cartridge
- Type VGE-SB-L-EL with engine-protection switch, pressure relieve valve and electrical plug CEKON 32 A with integrated phase-switch

### Application:

**VGE-SB-L-EL:** for more demanding use, such as handling of porous elements and high lifting-speed requirements



VGE-SB-L-EL

Type	Electrical Data	Order-Nr.
VGE-SB-L-EL-EU	4 kW 50Hz 3~ D230 / Y400 V 4.8 kW 60Hz 3~ D265 / Y460 V	47600160
VGE-SB-L-EL-USA	4,8 kW 60Hz 3~ YY 230 V / Y460 V	47600161
VGE-SB-L-EL-RU	4,8 kW 60Hz 3~ YY 220 V / Y380 V	47600162

Other versions available on request

## Supply Hose

- For connecting the turbine unit to the lifting unit
- With 2" coupling and 2 hose clamps

Type	Material	Diameter mm (in)	Length m (ft)	Order-Number
Supply Hose	Polyurethane	60 (2¼")	7 (23)	42100030



VGE-230

## Vacuum Turbine Unit VGE-230

The blower is connected to a standard household 230 V power supply. All Probst vacuum lifting units from HE-35 to HE-85 can thus be operated without restriction.

The vacuum lifting unit HE-150 can also be operated with non porous materials. The fan is controlled with a frequency converter that does not overload the 230V house fuse.

Type	Type of Drive electric/ AC (50 Hz) kW	Electric Connection/ AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Order-Number
VGE-230	2.5	230	77 (170)	42101425

## Easy picking of heavy products in the production plant

### Jumbo Travelling Crane JWK

Complete ready-to-use unit, incl. crane, ballast reservoir, electric installation and vacuum turbine, three-phase. Complete with socket.

- The machine can be moved easily by taking up with the forks from a fork lift truck
- Various lifting units and grippers can be attached to the Jumbo Travelling Crane JWK (see specifications) (refer to page 34 – 38)

To complete your Jumbo Travelling Crane JWK you need:

- Roller suspension, Lifting Unit, Operating Valve Unit, Suction Plate

### Vacuum Hose Lifter for Internal Use

- The lifting and lowering speed can be controlled extremely smoothly
- Can be operated easily, exactly and quickly
- Materials of all types can be easily lifted, sorted and layed
- The vacuum is used for holding the materials as well as for lifting them
- The result: efficient working practices and less stress on your workers



UZ-BV

Type	Description	Gripping Range* W mm (in)	Working Load Limit WLL kg** (lbs)	Dead Weight kg (lbs)	Order- Number
UZ-BV ①	Radius Kerb Clamp	80 – 220 (3¼ x 8¾")	150 (330)	12 (25)	52300031
VZ- BV-98/100 ①	Mechanical Kerb Stone Handle	980 – 1,000 (38½ x 39¼")	150 (330)	8 (20)	42300001
VZ- BV-40/104 ①	Mechanical Kerb Stone Handle	400 – 1,045 (15¾ x 41¼")	150 (330)	6.9 (15)	42300149

\* Gripping range indicates the minimum and maximum pack measurements of building materials, which can be picked-up with this grab.

\*\* Please note: To ensure that the detachment safety device functions properly, suction plates with a lower load capacity than the lifting unit HE allows must not be used. The use of suction plates with a higher load capacity than that of the lifting unit is permitted.

- ① Durable surface protection by galvanizing



JWK-80/250-4-EU

Type	Max. Working Load Limit WLL kg (lbs)	Reach mm (in)	Dead Weight kg (lbs)	Max. ballast weight kg (lbs)	Order- Number
JWK-80/250-4-EU	250 (550)	4,000 (157½")	1,050 (2,320)	3,600 (7,900)	52800019
JWK-80/250-5-EU	250 (550)	5,000 (196¾")	1,110 (2,450)	4,600 (10,100)	52800021

Electrical data turbine unit:

EU: 4 kW 50Hz 3~ D230 / Y400 V, 4.8 kW 60Hz 3~ D265 / Y460 V

### Mechanical clamps for lifting unit

Mechanical grippers can be mounted instead of vacuum suction plates onto the vacuum hose lifter. In this scenario, the vacuum energy is lifting the products whilst the mechanical gripper grabs the product. In this case, the sensitive speed control of lifting and lowering by the vacuum hose lifter is obtained.

- **UZ-BV**: universal kerb stone clamp specially designed to grab the kerbs crossway. This is how curved kerb stones with different radiuses can be handled
- **VZ-BV**: this clamp has been specially designed to cope with the rare cases when kerb stones are too porous to be lifted with vacuum, so they therefore have to be lifted mechanically



VZ-BV-98/100

# Vacuum Hose Lifter Components

## Lifting Hose Units HE

For use with JUMBOMOBIL JM, JUMBO BV, TRANSMOBIL TM, MULTIMOBIL MM, Jumbo Travelling Crane JWK or on any other crane carrier. (Application of lifting hose unit HE-250 is permissible at stationary crane facilities only, not to be operated with JUMBOMOBIL, JUMBO-BV and TRANSMOBIL TM).

Type	Working Load Limit WLL* kg (lbs)	Diameter Lifting Hose mm (in)	Lifting Height mm (in)	Order-Number
HE-35	35 (75) **	120 (5")	1,700 (67")	42100001
HE-50	50 (110) **	140 (5½")	1,700 (67")	42100106
HE-85	85 (185) **	178 (7")	1,700 (67")	42100002
HE-150	150 (330) **	230 (9")	1,500 (59")	42100132
HE-200	200 (440) **	250 (9¾")	1,500 (59")	42101114
HE-250	250 (550) **	300 (11¾")	1,500 (59")	42101115
If necessary: roller suspension for C-beam				42200042



BE-SPRINT-2

## Ergonomic Vacuum Control Unit BE-ERGOSPRINT

The new ergonomic operating valve unit for mounting on all HE lifting units and vacuum hose lifters, including JUMBOMOBIL JM-VARIO, TRANSMOBIL TM and MULTIMOBIL MM.

- No more bending over when picking up, moving and laying the concrete elements
- Control of suction and release via rotary handle
- Handle can be locked in the uppermost position

Type	For use with:	Dead Weight kg (lbs)	Order-Number
BE-ERGOSPRINT	HE-35 up to HE-250	13.5 (30)	42101305

SZV



\* Caution: Take note of the working load limit of the crane equipment.  
\*\* Value at 420 mbar low pressure



HE-35 – HE-250

Consists of:

- Rotational device and quick coupling, 2 inch
- Lifting hose with protective fabric as well as a flange for fitting onto the operating valve unit

## Operating Valve Unit BE-SPRINT-2

For direct coupling onto the lifting unit HE.

Consists of:

- Main body with handle 500 mm long, fixing screw for adjusting the hovering position, safety gauge

Type	For use with	Order-Nr.
BE-SPRINT-2	HE-35 up to HE-250	42100539



BE-ERGOSPRINT on TRANSMOBIL TM

## Hose Cylinder Extension SZV

- Only to be used as and when required to enable ergonomic working conditions, at certain heights

- Length 300 mm

Consists of:

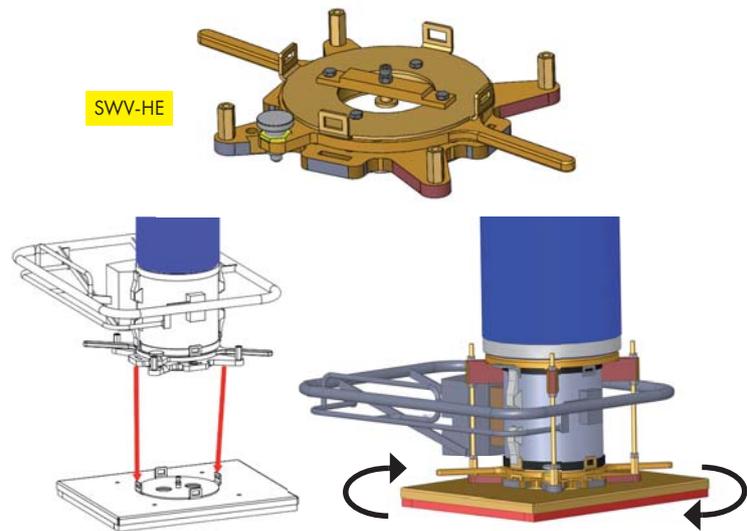
- Vacuum pipe with quick fasteners and transmission bar for the steering of the operating valve unit

Type	For use with	Dead Weight kg (lbs)	Order-Nr.
SZV	HE-35 up to HE-150	3.2 (7)	42100007
SVZ-250	HE-200 up to HE-250	5.8 (15)	42100008

## Quick Change Device SWV-HE

- Faster suction plate changing with a simple twist-motion
- Suitable for all lifting hose units from HE-35 to HE-250
- Easy operation, no inconvenient screwing of adapters required
- Operating errors no longer possible
- When using lifting hose units HE-200 and He-250, the lifting hose unit is fitted directly to the SWV-HE quick change device by 4 tension rods (threaded rods)

Type		Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Nr.
SWV-HE ①	Quick change device	250 (550)	3,8 (8)	42101026



## A selection from our extensive range of suction plates

### Suction Plates ESP

Type	Suction Plate Dimension mm (in)	Working Load Limit WLL* kg (lbs)	Order-Number
ESP-35-20/20	200 x 200 (7¾" x 7¾")	35 (75)*	42100050
ESP-50-23/23	230 x 230 (9" x 9")	50 (110)*	42100561
ESP-85-25,5/25,5	255 x 255 (10" x 10")	85 (185)*	42100051
ESP-150-31/31	310 x 310 (12¼" x 12¼")	150 (330)*	42100145
ESP-150-40/27,5	400 x 275 (15¾" x 10¾")	150 (330)*	42100116
ESP-150-50/19	500 x 190 (19¼" x 7½")	150 (330)*	52300019
ESP-150-92,4/13,4	924 x 134 (36½" x 5¼")	150 (330)*	52300008
ESP-150-100/12,4	1000 x 124 (39¾" x 5")	150 (330)*	52300007
ESP-200-33/33	330 x 330 (13" x 13")	200 (440)*	42100331
ESP-250-40/40	400 x 400 (15¾" x 15¾")	250 (550)*	42100054



ESP-150-31/31



\*\* Please note: To ensure that the detachment safety device functions properly, suction plates with a lower load capacity than the lifting unit HE allows must not be used. The use of suction plates with a higher load capacity than that of the lifting unit is permitted.

① Durable surface protection by galvanizing  
\* Value at 420 mbar low pressure

## Angeled Suction Plates WSP

Type	Suction Plate Dimension mm (in)	Working Load Limit WLL** kg (lbs)	Order-Number
WSP-150-52/15-12-98° ①	520 x 150 – 120 (20½" x 6" – 4¾")	150 (330)*	52500184
WSP-150-70/8-11-143°	700 x 80 – 110 (27½" x 3¼" – 4¼")	150 (330)*	42100238
WSP-150-70/11-17-143°	700 x 110 – 170 (27½" x 4¼" – 6¾")	150 (330)*	42100126
WSP-150-85/7-7-135°	850 x 70 – 70 (33½" x 2¾" – 2¾")	150 (330)*	52300018
WSP-150-70/13-10-143°	700 x 130 – 100 (27½" x 5" – 4")	150 (330)*	52500131
WSP-150-90/10-14-93° ①	900 x 100 – 140 (35½" x 4" – 5½")	150 (330)*	52300033

WSP-150-52/15-12-98°



## Multiple Suction Plates MSP

Type	Suction Plate Dimension mm (in)	Number of suction plates Pcs	Working Load Limit WLL** kg (lbs)	Order-Number
MSP-3-S-150-3x22Rd ①	oval 220 (8¾")	3	150* (330)	42101192

MSP-3-S-150-3x22Rd



## Multiple Suction Plates MFS

Type	Suction Plate Dimension mm (in)	Number of suction plates Pcs	Working Load Limit WLL** kg (lbs)	Order-Number
MFS-150-7-S-15Rd ①	oval 150 (6")	7	150* (330)	42101500
MFS-150-7-V-15Rd ①	oval 150 (6")	7	150* (330)	42101501

MFS-150-7-V-15Rd



\*\* Please note: To ensure that the detachment safety device functions properly, suction plates with a lower load capacity than the lifting unit HE allows must not be used. The use of suction plates with a higher load capacity than that of the lifting unit is permitted.

① Durable surface protection by galvanizing  
\* Value at 420 mbar low pressure

# Vacuum Hose Lifter Components

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Vacuum Technology

## Tilteable suction plate ESP-SW

### With automatic retraction ESP-SW-B

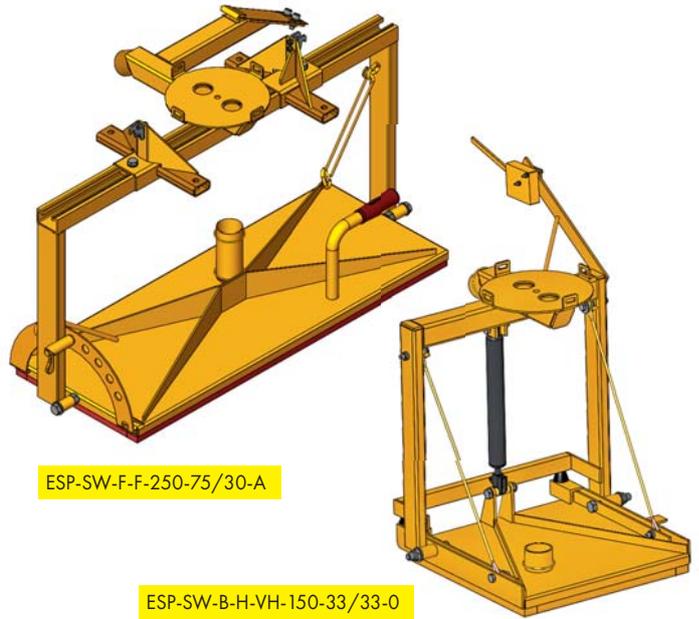
- Specially designed for the laying of slabs, which are delivered to site in vertical position, but have to be placed in horizontal position
- Slabs can be lifted in the vertical position
- Tilting into the horizontal position controlled by pulling a hand lever
- After the installation of the slab in horizontal position, the suction plate retracts itself into vertical position by a gas spring, when the hand lever is pulled once more
- Horizontal pick up and vertical set down on request

### With free swiveling action ESP-SW-F

- Specially designed for the in-plant handling of stone slabs
- When positioning the suction plate out of the center of gravity on a horizontal slab, the slab is tilting itself into the vertical position when lifted. In this position, the slab can be stored vertically on a transportation pallet
- When positioning in the center of gravity, the slab stays in the horizontal position when lifted



ESP-SW-P-250-A + ESP-200-91/20



ESP-SW-F-F-250-75/30-A

ESP-SW-B-H-VH-150-33/33-0

Type	Dimension mm (in)	Working Load Limit WLL kg (lbs)	Order-Nr.
ESP-SW-B-H-VH-150-33/33-0	330 x 330 (13" x 13")	150 (330)	42100096

- Suction plate can be locked in different positions by spring loaded bolt
- With integrated suction release device for easier release of the suction plate from the slab element. Operating of the suction release device only when no load is lifted

Type	Dimension mm (in)	Working Load Limit * WLL kg (lbs)	Order-Nr.
ESP-SW-F-F-250-75/30-A	750 x 300 (29½ x 11¾")	250 (550)	42100095
ESP-SW-F-F-150-40/25-A	400 x 250 (15¾ x 9¾")	150 (330)	42100190

## Pneumatic swivelling base frame for use with exchangeable suction plates ESP-SW-P-250-A

- Developed slab and kerbstone handling with pneumatic swivelling from vertical to horizontal position and the other way around
- Swivel range of 90° with pneumatic cylinder
- Can be used on HE-250 and smaller lifting units
- To improve ergonomics, possibly use handle extension 42300124
- Without suction plate

Type	Description	Dead Weight kg (lbs)	Working Load Limit * WLL kg (lbs)	Order-Number
ESP-SW-P-250-A	Base frame without suction plate	40.6 (90)	250 (550)	42101227

\* Value at 420 mbar low pressure



## 14 Components for Fully Automatic Plants



## Fully automated cubing in the concrete stone industry

### Electric Cubing Clamp ATZ-E-4 – For short cycle times even in multi-shift operation

Electric cubing clamp for picking up or stacking one layer of pavers or similar concrete elements, integrated into fully automated single layer machines.

- In addition to secure gripping of the products, clamping on four sides achieves removal of any gaps between the blocks at the same time
- If required available with rotation of the grippers, with distance adjustment of grippers, as double grab, with different kind of grippers etc.



ATZ-E-4



P-4

### ROBOGRIP P-4 Pneumatic Robot Grab

Foursided grab for fully automatic cubing in the concrete stone industry.

- Construction with high tensile special steels and thus achievement of low dead weight of the grab
- Fitted as standard with a flange plate for industrial robots

### Hydraulic Cubing Clamp ATZ-H-4 – For strenuous continuous use

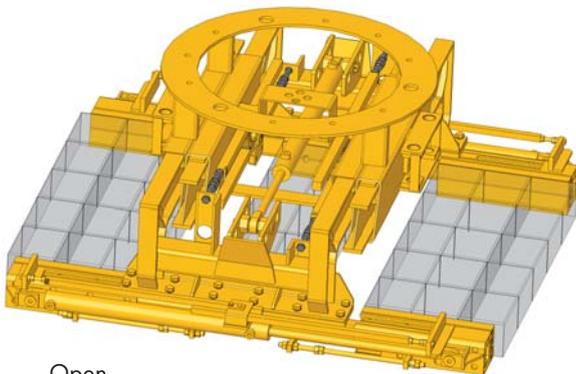
Hydraulic four-sided cubing clamp for stacking or picking up complete layers of pavers in the concrete plant.

- Gaps between the blocks are eliminated by powerful clamping on four sides
- Can be equipped if required: with space adjustment, 180-degree swivel grippers, as a double grab, with different gripper variants



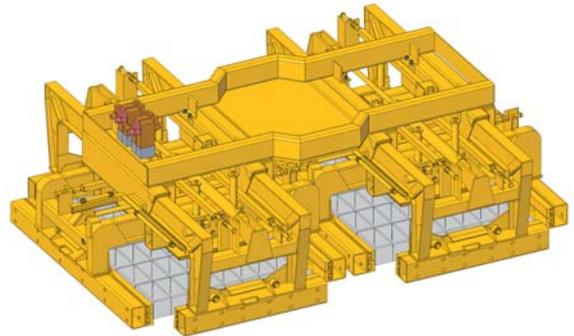
With the ATZ-H-4 hydraulic cubing clamp, very different combinations are possible.

With distance adjustable grippers:

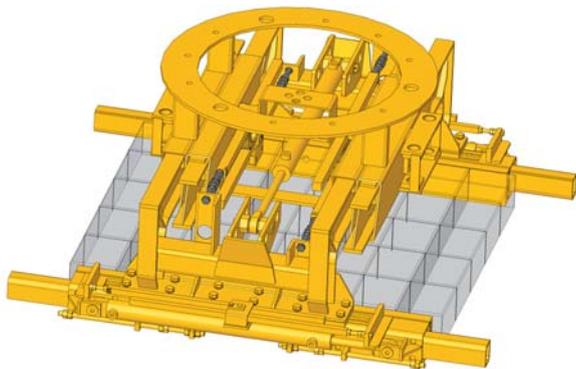


Open

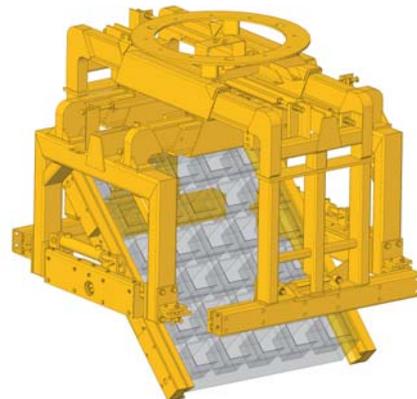
AS double grab:



With swivel gripper:



Closed



## Fully automated cubing in the concrete stone industry

### Vacuum Layer Gripper FSG-UNI

With the FSG-UNI vacuum layer gripper, a complete layer of blocks can be sucked up and packaged regardless of joint profile. This allows for complete new design possibilities and shapes.

- Made to be attached to a hydraulic cubing clamp, a robot or by a lifting unit
- Suitable to transport and pack already compacted layers of stones



FSG-UNI



FSG-UNI

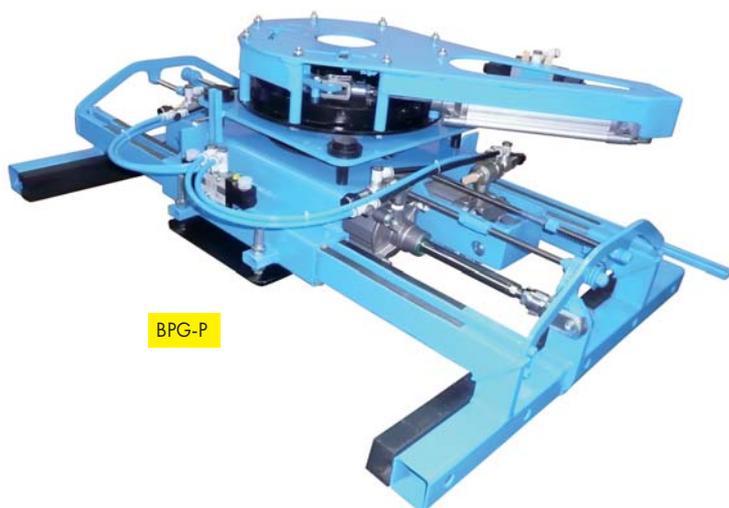


FSG-UNI

### Pneumatic board/pallet grab BPG-P

Suitable for grabbing production boards from the fully automated single layer plants.

With integrated 90-degree swivel mechanism if required.



BPG-P

# Clever solutions in the packaging of aerated concrete and limestone blocks

## Cubing Clamp STAZ and STAZ with three side arms

Extreme stable hydraulic grabs for fully automatic transfer stations.

- Any configuration in terms of inside height of grab, gripping range, length of gripper, working load limit
- Sponge rubber-covered pressure plates can stabilise the stone pack if required
- Also available with swiveling or rotating grippers



STAZ



STAZ-3 with Three Side Arms



STAZ-4

## Grab for aerated concrete for overhead crane STAZ-1550

Hydraulic two-sided grab for integration into production plants for aerated concrete blocks.

- For transferring complete 6-metre-long aerated concrete blocks
- Includes hydraulic power pack



STAZ-1550

### Customer-specific solutions

Please clarify technical specifications such as opening widths, heights, working load limits etc.

**Send us your requirement profile: we will find the right solution!**

## Cubing Clamp – Compacting grab STAZ-4

Hydraulic four-sided cubing clamp for compacting complete construction material packages.

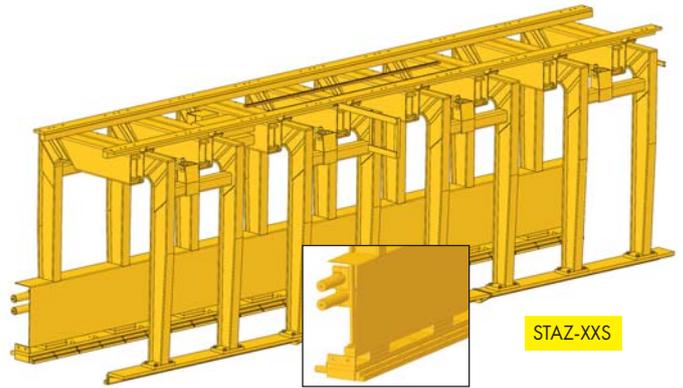
- Gaps between the blocks are eliminated by powerful clamping on four sides
- Can be integrated into fully automated block production machines

## Clever solutions in the packaging of aerated concrete and limestone blocks

### Grab for aerated concrete for overhead crane STAZ-XXS

Hydraulic grab for fully automated transfer stations.

- With special gripper system to pick up even extremely short packages with no damage



STAZ-XXS

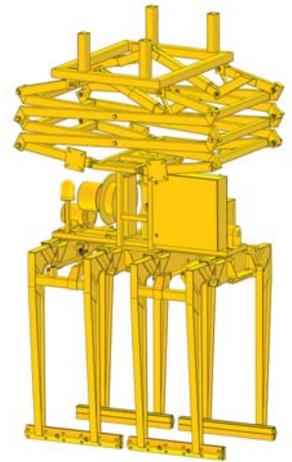


PKZ-DZ-II

### Gantry Crane Double Grab PKZ-DZ-II for aerated concrete blocks

Double grab with electrohydraulic unit for use on the gantry crane.

- With optional shear guide between grab and crane. The pendulum movements are thus greatly reduced, thus extremely fast loading



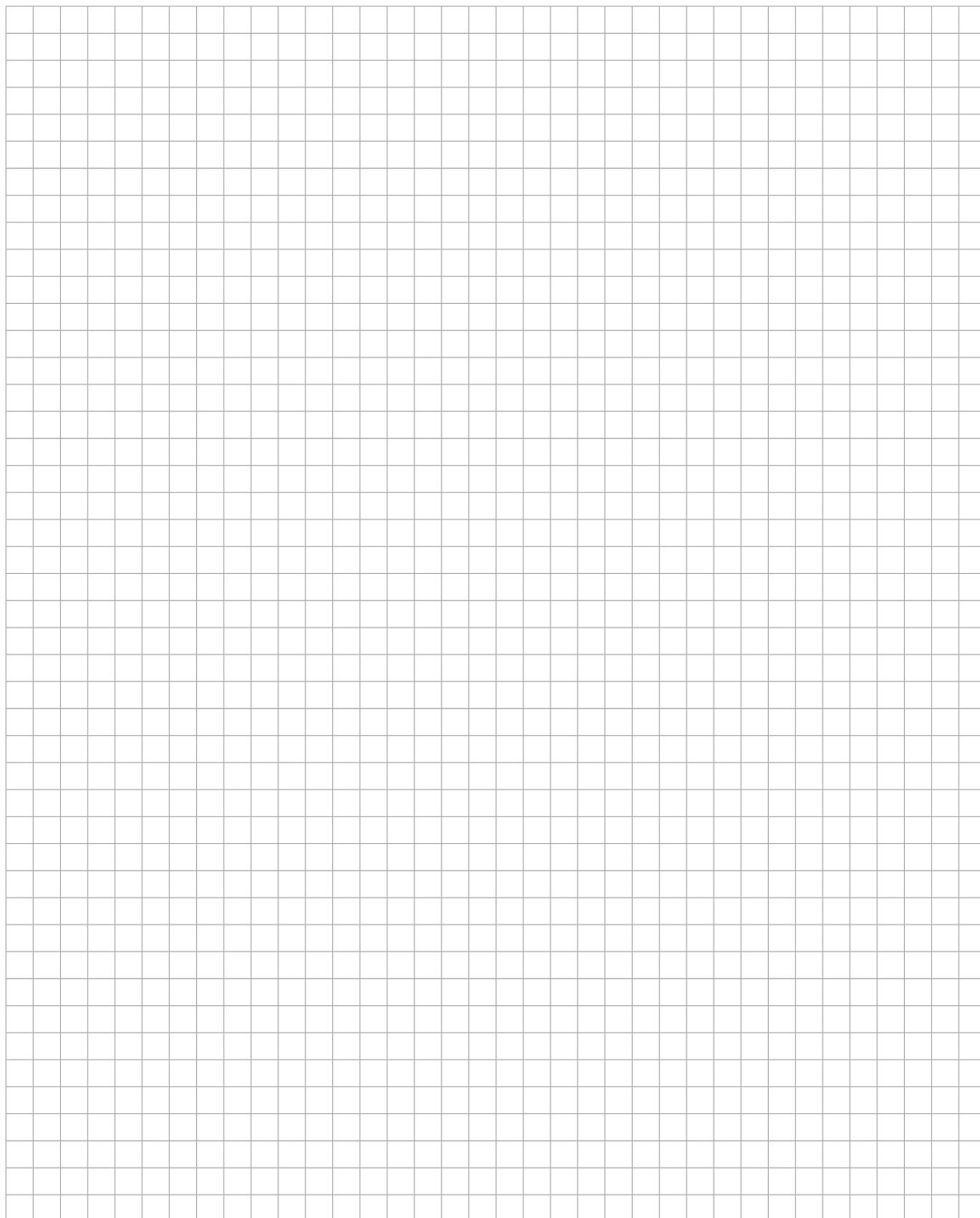
### Cubing Clamp STAZ-1100

Hydraulic two-side grab for fully automated transfer stations.

- With continuous sheet holder for movement into very narrow gaps between construction material packages for production reasons
- Grabs complete construction material packages



STAZ-1100



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Selective Layer Clamp	STAZ-SLC	6
Setting Up Device for Manhole Rings	AG	14
Small Pipe Turning Device	FUG	17
Sorting Clamp	ASZ	28
Steel Finger Grippers	STB1-S2	8
Steel Pallet Grab	UMG	15
Suction Plates	ESP	36
Tilteable suction plate	ESP-SW	38
Tilting Table	KT	18
Turbine Unit for Vacuum Hose Lifter (electric motor)	VGE-SB	33
Turning Device for Concrete Basers	WG-S	14
Turning Device for Concrete Basers	WG	14
Turning Device for Concrete Pipes	UG	16
Universal Pipe Grab System	URS-ST	21
VACUSPEED Vacuum Hose Lifter	VXS	30
Vacuum Layer Gripper	FSG-UNI	42
Vacuum Lifting Device with Spreader Bar	SH-1000-MINI-H	23
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Vacuum Turbine Unit VGE-230	VGE-230	33
Vertical Guide	SRF	9
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Wall Swing Crane for Vacuum Hose Lifters	AWSK	32

## The right solution for every challenge – already in the range, or we construct it.

Probst makes hard work easier. We already have available a wide range of machines, equipment and tools for many applications. We will gladly help you find the right solution for you. Alternatively, we can develop an individual suitable solution for you. For the optimal consultation, simply send us your requirements in advance.

Contact person: \_\_\_\_\_ Company: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail address: \_\_\_\_\_

## Please describe the element to be lifted.

Dimensions (LxWxH in mm)

What material is the element made of?  
e.g. concrete, natural stone, granite, limestone, ...

How is the element stored or how is it delivered?  
If available, please send us sketches or photos.

Which drive is preferred or available?  
e.g. combustion engine, hydraulic or electric drive, ...

When do you plan to commission the unit?

Weight (in kg)

What is the surface finish? e.g. coated, structured, smooth, polished, powder-coated, ...

What is the intended location?  
e.g. building site, building material plant, desert, sea air, ...

Is a carrier device provided? If so, which? e.g. excavator, forklift, loading crane, overhead crane, chain hoist, ...

Is there any other relevant information?

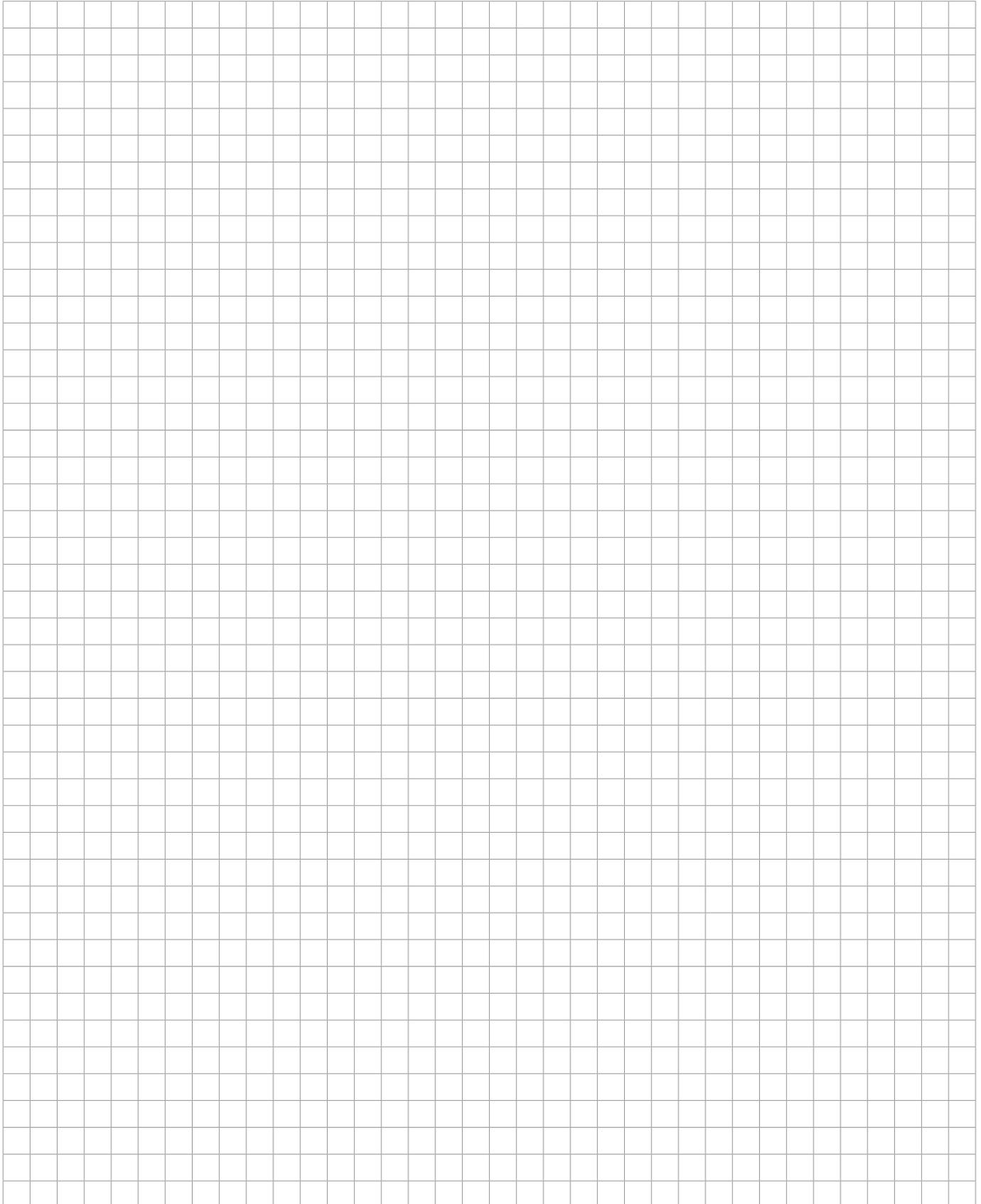
You will find space for a sketch or drawing of the element on the following page.

## Please take photos of this page and your sketches and send them to: [info@probst-handling.de](mailto:info@probst-handling.de)

Alternatively, use our online form and send us your request digitally:  
[www.probst-handling.com/en/productrequest](http://www.probst-handling.com/en/productrequest)

**We are looking forward to your request and will contact you immediately.**

## Sketch/drawing

A large, empty grid of small squares, intended for sketching or drawing a product. The grid consists of 20 columns and 30 rows of squares.

## Further Probst solutions for other industries



Site Equipment



Truck Crane Attachments

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We will gladly advise you.