



# Product Catalogue 2022

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Site Equipment

Building Material Plants –  
In-Plant Handling

Truck Crane Attachments



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# **making hard work easier**

**We are the top supplier for  
todays building material  
handling, making hard work  
easier.**



For over 60 years, our tools and machines have been making your everyday work on the construction site easier. Thanks to many important ergonomic and efficiency-enhancing innovations, we are now world market leader and set the standards in building materials handling on construction sites and in concrete plants.

More than 180 employees find the optimal solution for you every day – worldwide at our locations in Germany, Great Britain, France, Italy, Poland, China, Korea, Canada and the USA. With more than 1,400 sales partners worldwide, including over 700 in Germany, you have a competent partner at your side wherever you are.

Since 2020, the entire group of companies has been climate-neutral.



**ENVIRONMENTAL  
TECHNOLOGY AWARD**  
BADEN-WÜRTTEMBERG 2021

**3<sup>RD</sup> PRIZE**

CATEGORY 3  
EMISSION REDUCTION,  
TREATMENT & SEPARATION



**CLIMATE NEUTRAL**

COMPANY

certified by Fokus Zukunft

**1.400**

Sales partner  
worldwide

**180**

Employees  
worldwide

**11**

Subsidiaries  
worldwide

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VACUSPEED VXS	VXS	174
Vacuum Kerb Stone Installation Machine JUMBO-BV-VARIO	JUMBO-BV-VARIO	95
Vacuum Lifting Device SH-1000-MINI	SH-1000-MINI	87
Vacuum Lifting Device SH-2500	SH-2500	92
Vacuum Lifting Device SH-2500-GREENLINE	SH-2500-GREENLINE	93
Vacuum Lifting Device SH-3500-B	SH-3500-B	91
Vacuum Measuring Case VMK	VMK	108
Vacuum Sorting Lifter VAH-12	VAH-12	173
Vacuum Turbine Unit VGE-230	VGE-230	98
Vacuum Turbine Unit VGE-SB	VGE-SB	186
VACUUM-HANDY VH-1/25	VH-1/25	70
VACUUM-POWER-HANDY VPH-150-GREENLINE	VPH-150-GREENLINE	73
Vertical Guide SRF-900	SRF-900	158
Wall Swing Crane AWSK	AWSK	187
Wall Swing Crane VXS-AWSK-65-4	VXS-AWSK-65-4	176
Wheelset QJ-RS	QJ-RS	86



The tools and machines from Probst make hard work on sites easier. Thereby it doesn't matter if it's road construction, civil engineering, high-rise and roofing construction, landscape gardening or paver laying.

### **making hard work easier**

In over 60-years of Probst history, we make the hard working day much easier and more economic for everybody who works with pavers, pipes and concrete products. Probst offers complete service – starting with technical support and drivers training, up to logistics guidance at the site.

Experienced sales representatives advice and surprise with easy solutions for time and money saving operation.

Our policy is the durability of the range of products. With the regular maintenance the Probst products will last many times over decades, even on hard and daily operation. Of course you will get experienced service and spare parts for the complete product life.

The main reason for numerous sick days, loss of jobs and early retirement at the construction industry is back pain. Especially when laying kerb stones and slabs, it is a high risk for the workers, if not





# Site Equipment

We make your work on sites easier – in road construction & civil engineering, paver laying and landscape gardening

using the right equipment. You can prevent back strain with the right technical equipment and the correct handling of heavy weights.

The investment in ergonomic tools is paid back very quickly. The ergonomic machines and tools from Probst take care of the back and increase the working speed.

The material composition, the production process and the forms of the building materials are going to be changed regularly. That's why the tools and machines need permanent upgrades. Besides this the customer has higher requirements for security, is more aware of the quality and does not want any damages.

During development Probst already think of the future trends, experience reports and upcoming regulations. The result of this observation are robust machines and tools with extreme durability and efficiency.

As universal as possible – as special as needed.

Simply Probst: from practice for practice, because Probst makes hard work easier.





# Lay pavers efficiently – with paver installation machines

1



VM-301-GREENLINE with HVZ-UNI-II

**Probst paver installation machines offer simple handling, user-friendly operation and first-class performance. Increase your efficiency and go for first-class quality – with conventional or 100% electric drive.**

Offering a compact design and double articulated steering, the VM paver installation machines provide excellent maneuverability in confined spaces and job sites. Operators appreciate the high visibility to both the laying edge and what is behind them.

A low center of gravity guarantees an optimal static stability at any operating position.

The chassis of the laying machine has got a double center steering. Even driving narrow curves on freshly laid paver surface, no shifting is done to the pavers. The wheels do not twist the pavers, but roll on them.

## Universally usable

The Probst laying machines are universal machines for many different attachments to meet your requirements: Kerb laying clamps, sweeping systems, Vacuum Laying systems for different concrete and natural stone slabs as well as a lot of special tools that you will find in this catalogue.





**ENVIRONMENTAL  
TECHNOLOGY AWARD**

**BADEN-WÜRTTEMBERG 2021**

**3<sup>RD</sup> PRIZE**

CATEGORY 3  
EMISSION REDUCTION,  
TREATMENT & SEPARATION



VM-301-GREENLINE with HVZ-UNI-II

## Installation Machine VM-301-GREENLINE

### Installation Machine VM-301-GREENLINE – the new scale in mechanical paving

All machine functions are powered by maintenance-free asynchronous motors.

Up to 8 kW drive power transmitted to the drive gears by a differential axle.

Hydraulic unit with up to 5 kW of power to supply the work hydraulic system.

Automatic electric parking brake on the front axle.

Basic device incl. hydraulic rotator, without attachment.

#### Battery technology / Basic version:

2 lithium ion rechargeable batteries at 48 V, 105 Ah.

Total: 210 Ah / 10.1 kWh

Recharging technology: 2 on-board chargers, each 48 V, 50 A

Charging time (battery power at 0 %) on a 230 V power supply: approx. 4.6 h

Charging time (battery power at 0 %) on a 400 V power supply: approx. 2.3 h

Max. battery life up to 6 hours of paving operation (without electrical consumers such as heating, fan, lights, radio ...). With intermediate charging (with quick charge function 400V / e.g. 1 h during lunch break) up to 8 h of paving operation.

For 50% more battery capacity: optional 3 lithium-ion rechargeable battery at 48V, 105Ah.



VM-301-GREENLINE with HVZ-UNI-II

Type	Description	Battery Capacity Ah	Type of Drive electric/Battery kW	Working Voltage V	Driving Speed km/h (mph)	Weight Paver Layer kg (lbs)*	Dead Weight kg (lbs)	Height Lifting Height mm (in)	Working Load Limit/WLL kg (lbs)	Turning Radius Total mm (in)	Order-Number
<b>VM-301-GREENLINE</b>	Basic device installation machine without laying clamp HVZ	210 – 315	8/5	48	6/11 (4/7)	320/380 (710/840)	1,340 (2,950)	1,600 (63)	650 (1,430)	2,450 (96½)	<b>51500024</b>

\*At adequate driving speed and lowered load. Max. weight of paver layer: 380 kg/840 lbs (440 kg/970 lbs with extra weight)





VM-301-GREENLINE with HVZ-UNI-II

- Fully glazed tubular steel cabin for weather protection with heating and windscreen wiper.
- Continuous hydraulic rotator.
- Electronic joystick with arm support for controlling main/ side gripping width and rotator.
- Emission-free and low-noise operation.
- Very low vibrations.
- Very efficient use of energy thanks to the refined electric motors.
- Display with indicator for battery level, driving speed, operating hours, etc. Wide diameter tyres and high ground clearance, therefore suitable also in rough terrain.
- Wide pivoting range of approximately 1,600 mm from a standing position is achieved solely by a steering movement – and without shifting of the pavement.
- Double articulated steering enables manoeuvrability in the tightest spaces.
- Unlimited all-round-view for the driver, important when driving backwards.
- Ergonomical positioning of the seat, steering wheel, joystick, operating lever and pedal.
- With standard built-in radio.

### Accessories:

Type	Description	Weight Dead Weight kg (lbs)	Order-Number
<b>Battery 48V/105Ah</b>	Rechargeable battery for VM-301-GREENLINE	37 (82)	<b>24200146</b>
<b>Extra weight</b>	To increase the working load limit to 380 kg	35.9 (80)	<b>41500357</b>
<b>Exterior mirror</b>	Retrofit kit	13 (30)	<b>41500358</b>
<b>Mounting bracket</b>	For light package and/or exterior rear-view mirrors (is only required once)	1.6 (4)	<b>41500739</b>
<b>Windscreen washer</b>	With adjustable spray nozzles on the windscreen wiper arm. Without adjustable wiping interval. Retrofit kit for VM-301-K/VM-301-GL	13.7 (30)	<b>41500788</b>
<b>LED-Light kit VM-301-GL</b>	2 x LED headlamps, 1 x LED rear light	3.5 (8)	<b>41500977</b>
<b>LED-Turning Light</b>	Incl. fold-out foot	2.0 (4)	<b>41500978</b>
<b>Reversing alarm</b>	For VM-301-GL	2.0 (4)	<b>41500983</b>
<b>Adapter QJ</b>	For Rotator	1.5 (3)	<b>40110319</b>

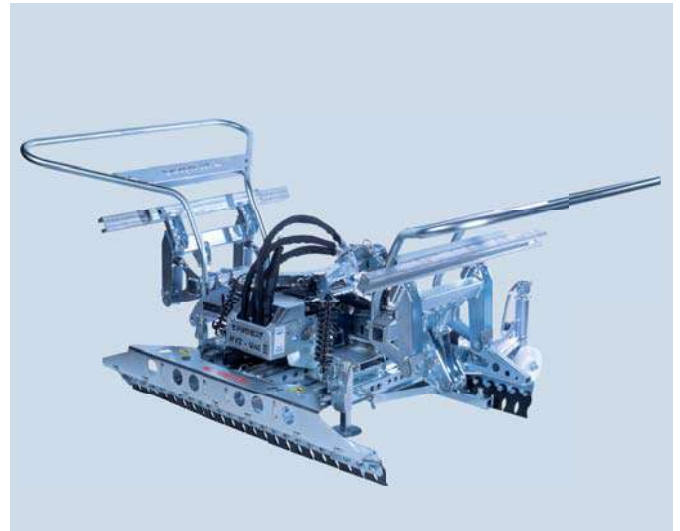


# Hydraulic Installation Clamps

These hydraulic installation clamps are universally suitable for laying all paving stone installation units available on the market when combined with the various carriers such as installation machines VM, hydraulic excavators and wheel loaders.

## Type HVZ-UNI-II and HVZ-UNI-II-EK Standard Specifications:

- Universally adjustable main gripping width beared on a maintenance-free steel-polyamide guideway.
- Adjustable side gripper for the exact shaping of the installation pattern (shaping device).
- Height adjustable stops for adjusting the gripping depth for different thickness of blocks.
- Hydraulic pressure regulating valve to protect the parts from too much strain.
- Oil pressure gauge.
- Independent steel grippers – ensuring a firm grip on single blocks when carrying large sets of blocks. The steel gripper length of 50 mm is variable up to about 1,350 mm.
- Handles for optimum handling of the pliers. Handles quickly removable for adaptation to confined spaces.

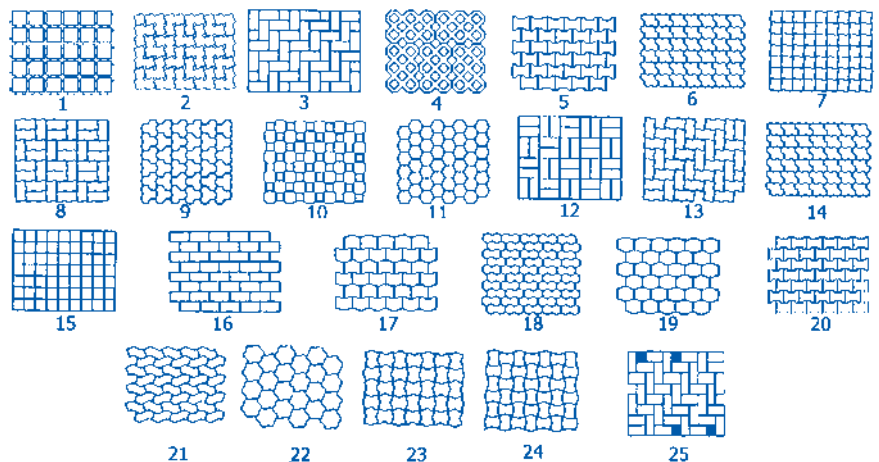


HVZ-UNI-II

## Mechanical installation allows for a multitude of design possibilities

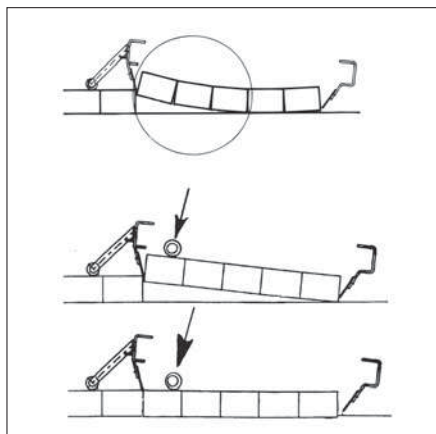
It depends on the right installation clamp. This paver formation is suitable for all mechanical installation with all clamps by Probst. We have also the right solution for specialised types of stones and installations samples – talk to us.

The stone formations 16 – 20 are suitable for mechanical installation by the special adapter. The stone formations 21 – 25 are suitable for mechanical installation by special adapter. For other stone formations (not shown), please send in a mould layout.





HVZ-UNI-II for VM-301/401/203/204



top: without ADV, bottom: with ADV

## Hydraulic Installation Clamp HVZ-UNI-II

The new HVZ-UNI-II is more universal in use, more robust in design and more easy to adjust this device incorporates the experience of 2 decades in mechanical installation.

It can be used in conjunction with the laying machine VM-301/401/203/204 as well as other carriers which provide two hydraulic circuits to operate the clamp. The main and side clamps are controlled directly from the carrier.

- Setting of the main and side clamping width made easy without tools by using scale pointers.
- The side clamping arms swing up completely in order to allow laying close to a wall sideways without any gap.
- The powerful side clamp achieves easy shifting of pavers into the running bond.
- Gripping depths and height of the support wheels can be adjusted without tools easy and quickly.
- Pushing-off technology ADV guarantees installation complying with the regulations: During the laying process the individual pavers creep apart by approx. 0.5 – 1 mm (in addition to the spacer bars). This joint distance must not be eliminated by hammering!
- Because the pavers can not rock during the laying process, time consuming readjustment is avoided.
- Pushing off device ADV as a standard feature integrated.
- 2 C-Profiles 860 mm long and 10 Positioning Adapters to shift pavers by 100 mm.
- Low deadweight.
- Main gripping width can be set much more easily via a spindle with integrated spring assembly instead of the previous chain centring method.
- Significantly increased displacement force for problem-free movement into the running bond (3 x greater than with the HVZ-UNI).
- New suspension – enabling the clamp to hang with less movement.
- Durable surface protection by galvanizing.

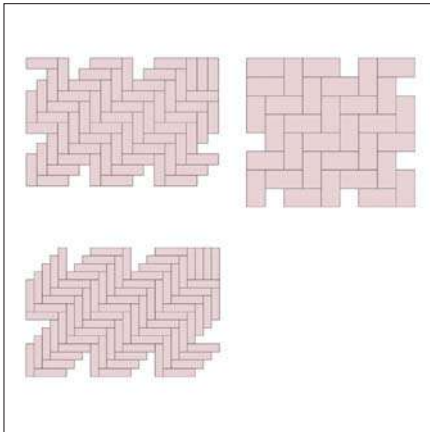
Type	Dead Weight kg (lbs)	Height Stone/ Element mm (in)	Hydraulic Connection Pressure bar (psi)	Hydraulic Connection Volumetric Flow l/min (gpm)	Hydraulic Connection Backflow Pressure, max bar (psi)	Opening Width Main Gripper mm (in)	Opening Width Side Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>HVZ-UNI-II for VM-301/203/ 204</b>	225 (495)	50 – 160 (2 – 6¼)	200 – 320 (2,901 – 4,641)	15 – 75 (4 – 20)	20 (290)	580 – 1,260 (22¾ – 49½)	960 – 1,440 (37¾ – 56¾)	400 (880)	<b>51400036</b>
<b>HVZ-UNI-II for VM-401</b>	226.5 (500)	50 – 160 (2 – 6¼)	200 – 320 (2,901 – 4,641)	15 – 75 (4 – 20)	20 (290)	580 – 1,260 (22¾ – 49½)	960 – 1,440 (37¾ – 56¾)	400 (880)	<b>51400037</b>

## Accessories

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>HVZ-UNI-II-PEA</b>	Set of PE supports for height adjustment	10.5 (25)	<b>41400986</b>



HVZ-UNI-II-EK with HVZ-UNI-II-PK-II



Block Layers

## Hydraulic Installation Clamp HVZ-UNI-II-EK

The HVZ-UNI-II-EK installation clamp requires only one hydraulic control circuit on the side of the carrier for automatic installation of interlocking paving stones. It is therefore ideally suited for attachment to smaller carrier, such as Knick- and Rollmops as well as small wheeled loaders.

All the properties of the HVZ-UNI-II (other than shifting layers into stretcher bond) are also integrated into the HVZ-UNI-II-EK.

Fitted onto a paving installation machine, the simplified automatic programme sequence allows even inexperienced drivers to achieve good laying performance very quickly.

The single-circuit control is started/stopped simply using the intersection control lever or electric joystick on the paving installation machine.

Safe gripping function dependent upon the condition of the spacers and the quality of the stones. Specification net weight without hydraulic rotator and swing damper.

- Durable surface protection by galvanizing.
- For further information see HVZ-UNI-II.

Type	Dead Weight kg (lbs)	Height Stone/ Element mm (in)	Hydraulic Connection Pressure bar (psi)	Hydraulic Connection Volumetric Flow l/min (gpm)	Hydraulic Connection Backflow Pressure, max bar (psi)	Opening Width Main Gripper mm (in)	Opening Width Side Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>HVZ-UNI-II-EK</b>	241 (530)	50 – 160 (2 – 6¼)	170 – 320 (2,466 – 4,641)	15 – 75 (4 – 20)	20 (290)	580 – 1,260 (22¾ – 49½)	960 – 1,440 (37¾ – 56¾)	400 (880)	<b>51400040-000</b>
<b>HVZ-UNI-II-EK with Herring- Bone-Adapter HVZ-FA-RE</b>	275 (610)	50 – 160 (2 – 6¼)	170 – 320 (2,466 – 4,641)	15 – 75 (4 – 20)	20 (290)	580 – 1,260 (22¾ – 49½)	960 – 1,440 (37¾ – 56¾)	400 (880)	<b>51400040-001</b>
<b>HVZ-UNI-II-EK with Paving Claw Adapter HVZ-UNI-II-PK-II</b>	285 (630)	50 – 160 (2 – 6¼)	170 – 320 (2,466 – 4,641)	15 – 75 (4 – 20)	20 (290)	580 – 1,260 (22¾ – 49½)	960 – 1,440 (37¾ – 56¾)	400 (880)	<b>51400040-002</b>



HVZ-UNI-II-EK with HVZ-UNI-II-PK-II

## Paving Claw Adapter HVZ-UNI-II-PK-II

For safe installation of 90° herringbone block layers with no half blocks at the sides. If half blocks are missing from the block layer at the sides, individual blocks are not gripped by the installation clamp. The clamping elements of the HVZ-UNI-II-PK-II paving claw also grip these blocks and thus allow easy installation.

Comprises 2 support bars and 3 hydraulic clamping elements.

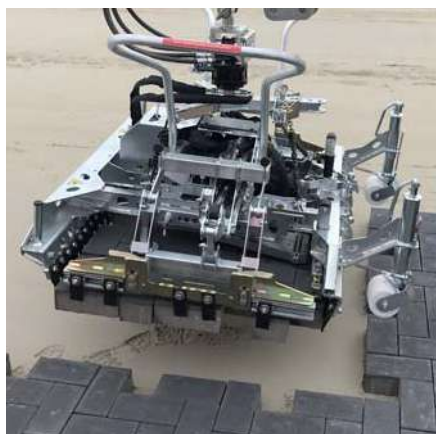
The hydraulic clamping elements are fixed to the side clamp holders, i.e. they are automatically adjusted at the same time in the case of adjustment of the secondary clamp.

The scope of delivery includes three hydraulically operated clamping elements, each with three additional adapters that can be changed without tools for block layers (see fig. left, concrete paving stones and bricks). Adapters for other block layers on request.

Subsequent attachment to hydraulic installation clamp HVZ-UNI-II-EK is possible by Probst service.

- Low payload loss on truck loading crane.

Type	Dead Weight kg (lbs)	Order-Number
<b>HVZ-UNI-II-PK-II</b>	45 (100)	<b>41401069</b>



HVZ-UNI-II-EK with HVZ-FA-RE

## Herring-Bone Adapter with RE-Blades HVZ-FA-RE

With the FA-RE adapters, the broadest range of block layers with missing blocks or half blocks at the side can be gripped safely. The infinitely adjustable RE blades ensure a firm grip on the blocks.

In this case, the side clamp is opened only after final placement of the block layer.

The stable, hardened, thin RE spring steel blades are then withdrawn upwards between the blocks when the clamp is lifted away from the installed block layer.

Subsequent attachment to hydraulic installation clamps HVZ-UNI-II and HVZ-UNI-II-EK is possible with no problem.

Comprises two support bars with RE blade adapters.

- Durable surface protection by galvanizing.

Type	Dead Weight kg (lbs)	Order-Number
<b>HVZ-FA-RE</b>	35 (75)	<b>41400557-009</b>





HVZ-LIGHT

## Hydraulic Installation Clamp HVZ-LIGHT

The light and reasonably priced entry-level clamp for mechanical stone laying, also suited to laying large slabs.

With no side clamping. Stone positions that are not interlocked can therefore not be displaced into the stretch bond.

Safe gripping function depending on the condition of the spacers and the quality of the stones. Weight without hydraulic rotator, C-Profiles and suspension.

- 2-position-suspension with springs to lessen the swinging caused by the driving movement.
- Additional chain to move the clamp diagonally enabling easier positioning and a much more precise installation of the blocks.
- Manually operated turning device which locks place after 90°.
- The hydraulic system allows an optimum of movement: Ensures safe gripping of the layer by the main grippers. The main gripping width opens to lay down the paving blocks in the laying course.
- Because of its light dead weight, the HVZ-LIGHT is particularly suitable for attachment to mini wheel loaders and mini excavators as well as for VM laying machines.
- For attachment to a carrier, only a hydraulic circuit is required.
- Durable surface protection by galvanizing.

Type	Dead Weight kg (lbs)	Weight Operating Weight-min, Excavator kg (lbs)	Height Stone/ Element mm (in)	Hydraulic Connection Volumetric Flow l/min (gpm)	Hydraulic Connection Pressure bar (psi)	Hydraulic Connection Backflow Pressure, max bar (psi)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
HVZ-LIGHT	159 (350)	2,000 (4,400)	50 – 160 (2 – 6¼)	15 – 75 (4 – 20)	160 – 320 (2,321 – 4,641)	20 (290)	570 – 1,180 (22½ – 46½)	400 (880)	51400035

### Accessories:

**HVZ-LIGHT-ADV:** Mechanical Pushing-off device can be retrofitted for all HVZ-LIGHT models. Because the pavers can not rock during the laying process, time consuming readjustment is avoided.

**NEW**

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
HVZ-LIGHT-ADV	Pushing-off device	9 (20)		41401198
Lifting eye for attaching to crane hook		0.9 (2)	1,000 (2,210)	31010004





FA for HVZ-UNI

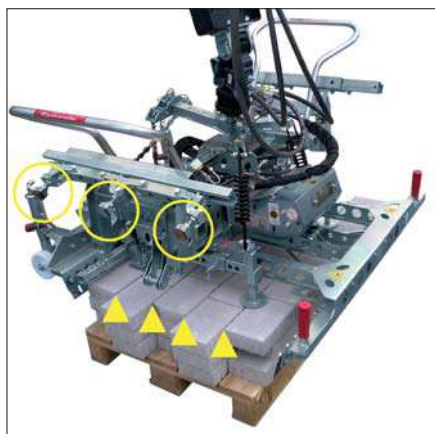
## Accessories for Hydraulic Installation Clamp HVZ

### Adapter

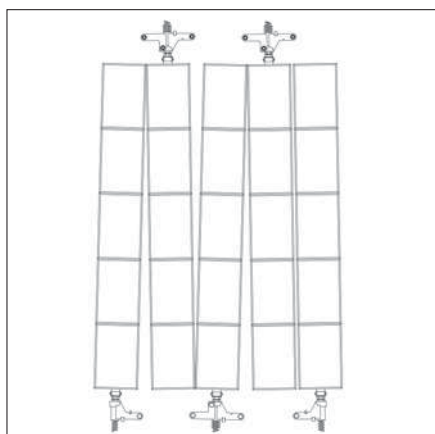
For some installation units it can be advantageous or even necessary, predominantly for the side grippers, to use a special adapter in order to achieve optimal gripping. The shifting adapter is used with rectangular stones, for instance, to shift pavers into the running bond. (Please, indicate stone formation).  
When laying installation units in the herring-bone pattern, it is better not to bother with the half stones on the sides and to use a herring-bone adapter FA instead (Please, indicate stone formation).  
Special adapters SA for installation units 21–24 or similar are available on request (please, indicate stone formation).

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>C-Profiles</b>	50 x 30 x 950 mm (2 x 1 x 38 inch) B x H x L	6 (15)	<b>34010018</b>
<b>C-Profiles</b>	50 x 30 x 860 mm (2 x 1 x 34 inch) B x H x L	5.5 (10)	<b>34010046</b>
<b>FA-Adapter for HVZ-UNI</b>	(external bow not required)	10 (20)	<b>41400277</b>
<b>FA-Adapter for HVZ-UNI-II/HVZ-ECO</b>	(for rectangular pavers)	18 (40)	<b>41400847</b>
<b>FA-Adapter for HVZ-UNI-II/HVZ-ECO</b>	(for Uni pavers)	15 (35)	<b>41401042</b>
<b>HD connection hose</b>	600 mm (24 inch) long for hydraulic rotator Indexator 12 L	0.28 (1)	<b>22000081</b>
<b>HD connection hose</b>	1,100 mm (44 inch) long for hydraulic rotator HVZ 10 L	0.78 (2)	<b>22000032</b>
<b>HD connection hose</b>	1,700 mm (67 inch) long – HVZ 12 L	0.9 (2)	<b>22000007</b>
<b>HD connection hose</b>	2,500 mm (10 inch) long – HVZ/VZ-HS 12 L	1.1 (2)	<b>22000014</b>
<b>HD connection hose</b>	3,000 mm (10 inch) long – HVZ 12 L	1.7 (4)	<b>22000312</b>

1



HVZ-VA-SUPERSOFT-24/16-5x5 – Adapter units



HVZ-VA-SUPERSOFT-24/16-5x5

## Shifting Adapter HVZ-VA-SUPERSOFT

With the new HVZ-VA-SUPERSOFT shifting adapters even „anti-shift pavers“ can be shifted easily and without damage.

Paving stone manufacturers are moving increasingly these days towards „anti-shift pavers“. The spacers are thus enlarged in order to prevent the pavers from shifting when heavy vehicles drive over them.

This increases the difficulty of shifting the pavers into the running bond during mechanical installation. Simply increasing the displacement force causes damage in the pavers.

Operating principle: The individual rows of pavers are spread apart a few millimetres in a V-shape before they are actually shifted.

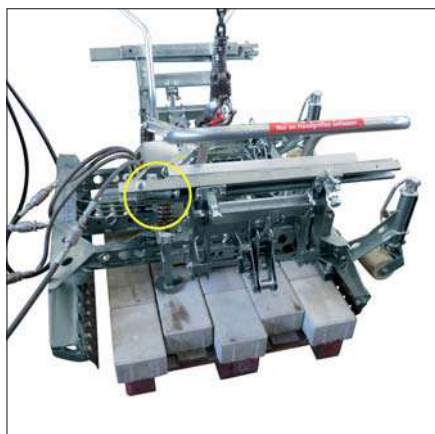
The pavers can then be shifted without damage; the spacers are undamaged and there is no damage on the pavers themselves.

The main gripping width subsequently compresses the individual rows again and grips the paving block layer. This takes place in one operation.

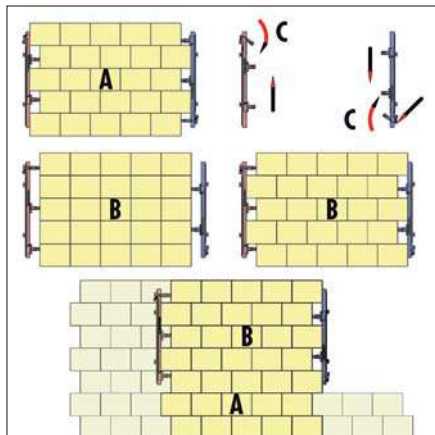
The shifting adaptor can be easily retro-fitted onto the C-profiles on the side gripping width of the hydraulic installation claws of the HVZ-ECO, HVZ-GENIUS, HVZ-GENIUS-II, HVZ-UNI and HVZ-UNI-II (with automatic programming on the VM-401).

■ Durable surface protection by galvanizing.

Type	Dimensions Stone/Element L x W mm (in)	Dead Weight kg (lbs)	Paver Layer Rows x Stones/Row	Order-Number
<b>HVZ-VA-SUPERSOFT-20/ 10-8x6</b>	200 x 100 (7¾ x 4)	20 (45)	8 x 6	<b>41400923</b>
<b>HVZ-VA-SUPERSOFT-24/ 16-5x5</b>	240 x 160 (9½ x 6¼)	16 (35)	5 x 5	<b>41400924</b>
<b>HVZ-VA-SUPERSOFT-20/ 10-10x4-90°</b>	200 x 100 (7¾ x 4)	30 (65)	10 x 4	<b>41400951</b>
<b>HVZ-VA-SUPERSOFT-20/ 20-4x6</b>	200 x 200 (7¾ x 7¾)	18 (40)	4 x 6	<b>41401025</b>



HVZ-VA-180°-24/16-5x5 – Position adapter, folding



HVZ-VA-180°-24/16-5x5

## Shifting Adapter HVZ-VA-180°

In conventional laying of paving layers with uneven paving rows and shifting with the hydraulic installation clamp into the 1/3-bond, the following situation arises:

The first installation row A can be installed entirely normally, i.e. the paving layers interlock cleanly on the side after shifting.

For the second installation row B, the paving layer must first be shifted into the 1/3-bond then the clamp must be raised and turned through 180° with no blocks.

Subsequently, the side gripping width is deactivated by means of a ball valve, the paving layer is clamped again, the clamp is turned back through 180° with the paving layer and then installed.

This must be done for every paving layer in even installation rows (2, 4, 6...), so that the running bond aligns.

With the new HVZ-VA-180° shifting adapters from Probst this time-consuming effort is no longer required for installation of even installation rows.

The two shifting adapters are screwed onto the C-profiles of the side gripping width.

With a C grip, it is now possible by simple shifting of the two position adapters and by folding in and out the third position adapter, to adjust the side gripping width on which side 2 or 3 blocks are shifted into the 1/3 running bond.

The shifting adaptor can be easily retro-fitted onto the C-profiles on the side gripping width of the hydraulic installation claws of the HVZ-ECO, HVZ-GENIUS, HVZ-UNI and HVZ-UNI-II (with automatic programming on the VM-401).

- Durable surface protection by galvanizing.

Type	Dimensions Stone/Element L x W mm (in)	Dead Weight kg (lbs)	Paver Layer Rows x Stones/Row	Order-Number
HVZ-VA-180°-24/16-5x5	240 x 160 (9½ x 6¼)	13 (30)	5 x 5	41400988

1

# Paving with the excavator – with hydraulic add-on clamps



HVZ-GENIUS

**Mechanical installation using an excavator with a hydraulic installation clamp has many advantages:**

- Reduce downtimes as you can use the excavator more frequently on site.
- Simple operation for experienced excavator operators thanks to fully automatic movement sequences. Both grab and laying processes are governed by one control lever.
- The excavator can lay blocks efficiently and quickly without moving its position because of its broad reach and swivel movement.
- Low acquisition costs.
- Even a 2.5t mini excavator can install pavers.
- Increased profitability for the excavator.
- Areas particularly suitable for excavator slab laying are: footpaths and cycle tracks, parking spaces and agricultural road construction.
- High-quality installation thanks to ADV pushing-off device. Comes as standard on the HVZ-GENIUS-II and HVZ-ECO.
- Clamp can be adjusted quickly and easily to the dimensions of the units to be installed; no additional tools needed.
- Clamp can be applied easily via the pendulum-mounted set-down rollers.
- Increased utilisation thanks to the hydraulic continuous 360° rotary motor with free-wheel capability, fitted as standard.





HVZ-GENIUS-II

## Hydraulic Installation Clamp HVZ-GENIUS-II

The highly efficient excavator attachment grab now with significantly increased shifting force.

With only one single hydraulic circuit required and the fully automatic selectable motion sequences the HVZ-GENIUS-II is a powerful all-rounder without being dependent on electric current.

Equipment for shifting other stone formats e.g. such as H-stones on request.

No cost-intensive filter maintenance.

Specific, automatic pushing-off device ADV.

Complete with continuous hydraulic rotator, hoses and suspension for excavator, and now also includes a bracket for quick-release adapters.

Safe gripping function depending on the condition of the spacers and the quality of the stones. Weight without hydraulic rotator, C-Profiles and suspension.

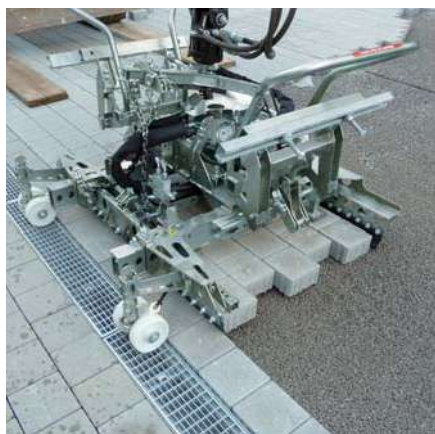
- An inspection glass provides a better view of the drum control's direction of rotation.
- Larger safety handles with a new design.
- Now with a scale for even easier adjustment of the main gripping width.
- Allows automatic shifting of rectangular pavers into running bond.
- Flush laying without any gap along walls and kerbs.
- Overlaying handles are quickly removable.
- No retrofitting of the excavator.
- The HVZ-GENIUS-II can be fit to all types of excavators. Thus no additional investment in case the clamp is to be attached to different types of excavators.
- Gripping range can be easily adjusted without additional tools.
- The supporting wheels can be adjusted easy and quickly through a crank handle.
- Grab swing brake between hydraulic rotator and excavator suspension.
- First-class, electrogalvanised material components guarantee optimum operating safety and long life cycle.
- Durable surface protection by galvanizing.

### Scope of delivery:

**HVZ-GENIUS-II:** Including rotator. With a tool holder for tubular and Allen keys 2 C-Profiles 860 mm/34 inch long and 10 Positioning Adapters to shift pavers by 100 mm/4 inch.

Type	Dead Weight kg (lbs)	Weight Operating Weight-min, Excavator kg (lbs)	Height Stone/ Element mm (in)	Hydraulic Connection Pressure bar (psi)	Hydraulic Connection Volumetric Flow l/min (gpm)	Hydraulic Connection Backflow Pressure, max bar (psi)	Opening Width Main Gripper mm (in)	Opening Width Side Gripper mm (in)	Working Load Limit/ WLL kg (lbs)	Order-Number
<b>HVZ-GENIUS-II</b>	339 (750)	3,500 (7,700)	50 – 160 (2 – 6¼)	180 – 320 (2,611 – 4,641)	25 – 80 (7 – 21)	10 (145)	580 – 1,470 (22¾ – 57¾)	960 – 1,440 (37¾ – 56¾)	400 (880)	<b>51400042</b>

1



HVZ-ECO

## Hydraulic Installation Clamp HVZ-ECO

**The high-performance attachment for mini excavators – now even more powerful and with a reduction of dead weight at the same time.**

HVZ-ECO especially designed for mechanical paver installation with smaller mini excavators. Multifunctional with high performance and cleverly thought out hydraulic control: only one hydraulic circuit is required to run all motion sequences including the automatic shifting of rectangular pavers into the running bond. Equipment for shifting H-stones on request.

Fitted onto a paving installation machine, the automatic programme sequence allows even inexperienced drivers to achieve good laying performance very quickly. The single-circuit control is started/stopped simply using the intersection control lever or electric joystick on the paving installation machine. For standard equipment see HVZ-GENIUS.

Safe gripping function depending on the condition of the spacers and the quality of the stones. Weight without hydraulic rotator, C-Profiles and suspension.

- Due to high-tensile material and innovative design the dead weight of the HVZ-ECO clamp is reduced.
- The slim construction offers a good overall view.
- Better pick up and installation due to the adjustment possibilities at the attachment.
- Absorption of the swing motion by damping springs.
- In just a few simple steps and without additional easily adjustable.
- Durable surface protection by galvanizing.

### Scope of delivery:

**HVZ-ECO:** Including rotator. 2 C-Profiles 860 mm/34 inch long and 10 Positioning Adapters to shift pavers by 100 mm/4 inch.

Type	Dead Weight kg (lbs)	Weight Operating Weight-min, Excavator kg (lbs)	Height Stone/ Element mm (in)	Hydraulic Connection Volumetric Flow l/min (gpm)	Hydraulic Connection Backflow Pressure, max bar (psi)	Hydraulic Connection Pressure bar (psi)	Opening Width Main Gripper mm (in)	Opening Width Side Gripper mm (in)	Working Load Limit/ WLL kg (lbs)	Order-Number
<b>HVZ-ECO</b>	227 (500)	2,500 – 2,800 (5,500 – 6,200)	50 – 160 (2 – 6¼)	25 – 80 (7 – 21)	10 (145)	180 – 320 (2,611 – 4,641)	580 – 1,260 (22¾ – 49½)	960 – 1,440 (37¾ – 56¾)	400 (880)	<b>51400034</b>

### Accessories

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>HVZ-ABA</b>	Support for excavator adapter	5.3 (10)	<b>41401008</b>
<b>HVZ-ECO-PEA</b>	Set of PE supports for height adjustment	1.8 (4)	<b>41401058</b>





left: LSW-MS-08. top: LSW-MS-03.  
right: LSW-MS-03 + MS-08



left: UBA-1200. right: Fork to LW 86 universal joint

## Adapter suspension Lehnhoff LSW for HVZ-GENIUS-II / HVZ-ECO

By using the SW, the HVZ-GENIUS-II / HVZ-ECO can be fitted to all kind of excavators which are equipped with the Lehnhoff quick-change-device.

### Universal-Excavator-Suspension UBA

Suitable for most current excavators, maximum bolt diameter up to 70 mm, incl. adapter set of spacer sleeves.

Advantage: The HVZ can be quickly and easily fastened to any excavator.

Hydraulic connection hoses to connect the HVZ to the carrier.

Connection: 12 L Cutting Ring.

2 Hoses are necessary per machine.

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>LSW-MS-01</b>	Suitable for Lehnhoff-Type MS-01	19 (40)	800 (1,760)	<b>40110178</b>
<b>LSW-MS-03</b>	Suitable for Lehnhoff-Type MS-03	29 (65)	1,000 (2,210)	<b>40110268</b>
<b>LSW-MS-08</b>	Suitable for Lehnhoff-Type MS/HM 08	75 (165)	1,000 (2,210)	<b>40110269</b>
<b>LSW-MS-03 + MS-08</b>	Suitable for Lehnhoff-Type MS-03 and MS-08	49 (110)	1,000 / 1,000 (2,210 / 2,210)	<b>40110434</b>
<b>LSW-MS-01 + MS-03</b>	Suitable for Lehnhoff-Type MS-01 and MS-03	19 (40)	800 / 1,000 (1,760 / 2,210)	<b>40110479</b>
<b>Fork to LW 86 universal joint for LSW 03 + LSW 08 Lehnhoff adapter + UBA-1200/3000</b>		3.6 (8)	1,200 (2,650)	<b>40110278</b>
<b>UBA-1200</b>		15 (35)	1,200 (2,650)	<b>41400571</b>
<b>UBA-3000</b>		18 (40)	3,000 (6,600)	<b>41400088</b>

1



VTK-V with supporting wheel



VTK-V with AR

## Adjustable Paver Transport Cart VTK-V

For the effortless transportation of bound or loose pavers, kerb stones, slabs, etc.

Clamping is done by operating a lever 90° (maximum pressure 15 kg).

Adjustable gripping width from 550 mm – 1,050 mm.

The minimum and maximum gripping widths can be altered using special grippers.

- An integral protection device prevents overloading of the clamping mechanism.
- A favourable load distribution and the light-weight-nature of the device ensures optimal operating.
- Its narrow build means it can be used on the smallest building sites.
- Blocks can easily be loaded from the pallet without the need of a ramp.
- Fully mechanical.
- Adjusts smoothly and without the need for tools.
- Durable galvanized surfaces.

Type	Length of Gripper mm (in)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Clamping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>VTK-V</b>	200 (7¾)	68 (150)	900 (35½)	550 – 1,050 (21¾ – 41¼)	400 (880)	<b>51100015</b>

### Accessories:

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>VTK-V-AR</b>	Access ramp for VTK-V, to make picking up interlocking paving stones on the pallet easier. L = 700 mm (27½ in), W = 850 mm (33½ in), H = 160 mm (6¼ in)	10 (20)	<b>51100014</b>
<b>VTK-V-SR/N</b>	Supporting wheel for easy handling on even ground. Can be additionally attached at any time.	7 (15)	<b>41100041</b>



PW-III with drawbar

## Pallet-Cart PW-III

**For the transportation of palletised products on the building site.**

The forks are driven under the pallet, the two main wheels are then located on the pallet's left and right sides. The load is raised using the hand pump and hydraulic cylinder.

- With large rubber wheels for easy movement.

Type	Description	Dimensions Palette L x W mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
PW-III	adjustable	1,250 x 1,263 (49 1/4 x 49 3/4)	195 (430)	1,500 (3,300)	51100011

## Accessories

Type	Description	Dead Weight kg (lbs)	Order-Number
Drawbar	Retrofit kit with braking function	7 (15)	42300038





EF-H

## EASYFILL EF-H Paver Jointing Device

Easy, flexible, quick and thus cost-saving filling of paver joints for small and medium sized areas. Filling material can be filled in both dry or by adding water.

Your Advantages: High Physical Relieve of Staff.

80% less pushing force due to cleverly designed rotating brushes. This results in an integrated forward drive!

- Robust and Long-life Brushes.
- Up to 50 mm of the bristle length can be worn before replacement.
- Continuous & Quick Adjustment of brushes in height through a spindle fixed to the machine.
- Compact Transport Size. A foldable handle reduces the size to (L x W x H) 800 x 1,170 x 635 mm/ 32 x 46 x 25 inch.
- Fine Dosing of Water with tap integrated in handle.
- With high-quality petrol engine.

Type	Type of Drive Petrol Engine kW	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
EF-H	4	1,170 (46)	112 (245)	51700003

### Accessories:

Type	Dead Weight kg (lbs)	Order-Number
Brush for EF-H	0.75 (2)	41700002



EF-H-GREENLINE

## EASYFILL EF-H GREENLINE Paver Jointing Device

Joint filling with electric forward drive.

Fast and flexible filling of pavement joints on small and medium sized areas. The joint material can be grouted either dry or with the addition of water.

The EF-H-Greenline works emission-free and quietly. The electric drive is a great advantage, especially when working in city centres or underground car parks.

With one battery charge, approx. 100 m<sup>2</sup> (1076 sq ft) of surface can be grouted in 40 minutes.

The electric drive not only drives the brush discs, but also generates a forward drive! This means that the unit does not have to be pushed with a lot of force, it just needs to be guided!

- Rigid, resistant brushes for optimal joint filling.
- Continuous height adjustment of the brushes.
- Electric drive – lithium-ion battery.
- Powered by rechargeable 82V lithium-ion battery (exchangeable battery concept), additional batteries optionally available. Charging time approx. 75 min.

### Scope of delivery:

**EF-H-GREENLINE:** EASYFILL Paver Jointing Device, 1 x battery and 1 x charger 220V/82 V.

**EF-H-GREENLINE-110:** EASYFILL Paver Jointing Device, 1 x battery and 1 x charger 110V/82 V.



Type	Battery Capacity Ah	Type of Drive electric/ Battery kW	Working Width mm (in)	Working Voltage V	Dead Weight kg (lbs)	Order-Number
EF-H-GREENLINE	5	1.5	1,170 (46)	82	112 (245)	51700008
EF-H-GREENLINE-110	5	1.5	1,170 (46)	82	112 (245)	51700009

## Accessories

Type	Description	Battery Capacity Ah	Working Voltage V	Dead Weight kg (lbs)	Order-Number
<b>Battery 82V/5Ah</b>	Battery for EF-H-GREENLINE	5	82	2.6 (5.7)	<b>24200148</b>
<b>EF-H-LG-220V/82V</b>	Battery charger for EF-H-GREENLINE			1.56 (3.4)	<b>24110216</b>
<b>EF-H-LG-110V/82V</b>	Battery charger for EF-H-GREENLINE-110			1.48 (3.3)	<b>24110221</b>
<b>Brush for EF-H</b>				0.75 (2)	<b>41700002</b>



EB-120/240

## Sweeping Broom EB

**For efficient sand sweeping after the laying of block pavers. Fast filling of the joints by innovative system of brush-arrangement.**

The broom can easily be attached to any other carrier – wheel loader, for example.

- This sweeping broom does not only brush the sand horizontally into the joints, but also diagonally. So the sweeping is a one-way procedure.
- Surplus sand can easily be moved further on.
- With attachment device for laying machine VM-301/401/203/204 as well as for fork attachment.
- The broom can easily be attached to any other carrier – wheel loader, for example.

Type	Description	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
<b>EB-120/240</b>	Sweeping Broom complete incl. linkage	1,200 – 2,400 (47¼ – 94½)	105 (230)	<b>51600021</b>
<b>EB-120</b>	Sweeping Broom complete incl. linkage	1,200 (47¼)	64 (140)	<b>51600019</b>

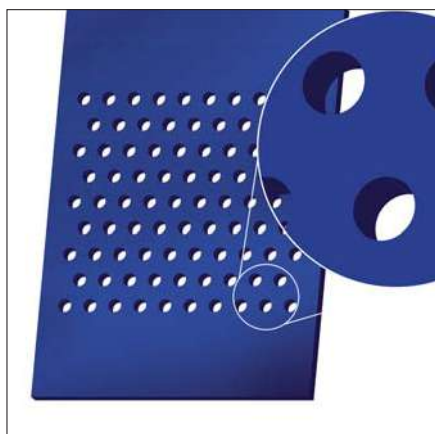
## Accessories:

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>Brush for EB</b>	Brush for EB per piece	1.3 (3)	<b>41600002</b>





SXR



SXR

## Surface Saver SXR for Vibration Plates

**Fast, gentle and covering the entire surface – with the SXR mat for vibrating plates you can distribute jointing material into the paving joints much more efficiently than with standard mats without holes.**

The integrated honeycomb technology of the protective mat serves as a reservoir for the jointing material.

The recesses minimise the slowing down of the vibration plate due to accumulated sand piles.

Damage to paving stones with a textured surface, clay stones, natural stones and pavement slabs is also significantly reduced when using the surface saver. The result is an area-wide distribution of the joint material and an intact substrate.

■ Suitable for almost all vibrating plates. Honeycomb polyurethane mat 760 x 560 x 10 mm/ 30 x 22 x 1/2 inch (L x W x H).

■ Also suitable for reversible vibrating plates (forward as well as reverse).

■ Optional extra: second clamping strip to be able to attach the protective mat to the front and rear of the vibrator if required.

### Scope of delivery:

**SXR:** Set consisting of plastic mat, clamping strip, screws and drill bit.

Type	Description	Dimensions L x W x H mm (in)	Weight Total Weight kg (lbs)	Order-Number
<b>SXR</b>	Protective mat for vibration plate incl. fixing material	760 x 560 x 10 (30 x 22 x 1/2)	6.82 (15)	<b>41350014</b>

### Accessories:

Type	Description	Order-Number
<b>Clamping strip</b>	with fixing material	<b>41350016</b>



EC-60



Accessories for EC-60. Set SL-8 (right) + CK (left)



Accessories for SL-8. DF (left), SSK (right)

## EASYCLEAN EC-60 Paver Cleaning Device

Highly efficient, engine-equipped high pressure cleaner with splash guard. It enables fast and consistent cleaning of concrete pavers, slabs and natural stone pavement even during the trading hours in pedestrian areas!

- Cleans Up to 5 Times More. Compared to lance-equipped pressure washers. 2 fast rotating special spray nozzles ensure that.
- New Looking Pavement in colour and structure by even surface and joint cleaning in one go.
- Independent from Power Supply due to powerful gasoline engine.
- Reduced Preparation Time since the splash guard is an excellent protective measure. Thus no fouling of the surrounding area and the user. This modern design makes protective clothes for the user unnecessary.
- Save Cleaning of Joints.
- High Safety for Surrounding Area due to covered work space.
- Dirt is Flushed Aside by an integrated flushing system.
- Improved Water Permeability. Sediment-free joints allow more water to pass.
- Independent of mains power, the powerful high-pressure pump (max. 150 bar operating pressure) is driven by a powerful 4 KW (5.5 hp) Honda petrol engine, only a water supply is needed (bayonet fitting, minimum water pressure = 0,3 bar/psi, minimum volume flow, 20 l/min).
- Easy movement of machine: wheels below the splash guard allow easy handling.
- Handle with integrated stop cock for water supply cut-off.
- Compact Transport Size. A foldable handle reduces the size to (L x W x H) 800 x 600 x 500 mm / 31 x 24 x 20 inch which suits most car boots.
- Long-Life Splash Guard. Stainless steel protects against rust.

### Scope of delivery:

**EC-60:** Including Water Hose Adapter WSA-Gardena as a standard feature (adapter for connecting the EC-60 bayonet coupling to a Gardena water hose coupling).

Type	Type of Drive Petrol Engine kW	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
EC-60	4	600 (23½)	53 (115)	51700004

## Accessories:

**Spray Lance SL-8 and Chemical Kit CK:** Spray Lance SL-8: Complete spray lance, nozzles adjusted to the high pressure pump, lance head with integrated switch for high/low pressure, including high pressure hose with 8 m length.

**Chemical Kit CK:** Our high pressure pump is equipped with a metering unit for chemical additives. The CK enables the intake and the dosage of such additives from containers.

**Dirt Drill DF:** Spray lance head with integrated dirt drill for erasing heavy dirt. Can be fixed within seconds to the SL-8.

**Sand Blasting Kit SSK:** For erasing persistent dirt up to derusting and similar applications. This kit allows intake and dosage of sand for blasting (sand is not included in kit).

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>Spray Lance SL-8 and Chemical Kit CK</b>		4.7 (10)	<b>26110032</b>
<b>Dirt Drill DF</b>		0.59 (1)	<b>26110026</b>
<b>Sand Blasting Kit SSK</b>	(0.1 – 0.5 mm / 0.004 – 0.02 inch grain quartz sand)	2.6 (6)	<b>26110033</b>



PP with FSD-PP

## POWERPLAN PP Screeding Machine

The Screeding Machine POWERPLAN PP was specially designed to screed such bedding material without major wear on the machine. Standard Asphalt Paving Machines, (Finisher) are working with scratch conveyors and worm shafts to distribute the material. When screeding sand or chippings for the bedding of concrete pavers, this abrasive material is wearing away these components very fast, which is causing high maintenance costs.

Whether subbase, base or gravel (up to grain size 0/63), split, whether sand or even bedding material, the POWERPLAN PP from Probst takes on installation of the relevant material in one go (up to installation height 20 cm / 7¾ inch) – at absolutely accurate height.

Depending on height profile and kind of control system used, it is possible to screed per day between 2.500 sqm (27,000 sqft) using sonic control or up to 10.000 sqm ( 107,500 sqft) using laser control feature.

4-cylinder diesel motor, 18.5 kW / 25.2 hp. Complies with EU emission regulations level V and TIER IV final (USA), no restriction in environmental zones, as engine power < 19 kW.

Hydraulic liftable front chute.



PP

Type	Description	Type of Drive Diesel Engine kW	Working Width mm (in)	Driving Speed km/h (mph)	Weight Total Weight kg (lbs)	Weight Dead Weight kg (lbs)	Length mm (in)	Payload kg (lbs)	Volume Hopper m³ (ft³)	Order-Number
PP	Screeding Machine	18.5	2,050 – 3,450 (80¾ / 3) – 135¼)	2.1 / 4.3 (1.3 / 3)	6,000 (13,200)	2,526 (5,600)	3,670 (144½)	3,500 (7,700)	2.5 (88¼)	51300011
S/US-PP	Levelling Kit: 2 x regulator, 2 x ultrasonic sensor, cable set, case					25.5 (55)				41300005
NS-PP	Slope Sensor, installed in the middle of the machine					6.9 (15)				41300007





PP

Sideways foldable chutes to avoid that material is spilling over the side of the hopper.

Two independently hydraulically operated lids at the bottom of the hopper to perfectly control the material flow.

Basic width of the screed board 2,050 mm (81"). By using one board extension on either side extendable to 2,400 mm (94") or even 2,750 mm (108").

On either side one smoothing board can be fixed to extend the full working width to 3,450 mm (136"). Smooth-running adjustable cantilevers for holding the sonic sensors (sonic ski), complete scanning width up to 6,500 mm (256"). So a 6,000 mm (236") wide road can be screeded scanning from kerb to kerb.

Compact transportation measurements H x B x L 1,900 x 2,050 x 3,400 mm (75" x 81" x 134") can be transported on a car trailer.

Height control system optional via: 1. Sonic sensors (sonic ski). 2. Laser sensors. 3. Inclination sensors.

■ Quick filling of the hopper reservoir with a wheel loader shovel up to 2,500 mm (98") wide, from the front or sideways.

■ Simple operation by well arranged instruments. Perfect visibility to relevant spots.

## Accessories:

Type	Description	Weight Dead Weight kg (lbs)	Order-Number
<b>LS-PP</b>	Laser Kit: 2 x laser receiver & case	7 (15)	<b>41300006</b>
<b>LXS</b>	Laser Set, consisting of: Leica Rugby CLI/CLX 900 (rotating biaxial horizontal laser), with charger, Li-ion battery, hardcase, binoculars, handheld receiver with integrated remote control and clamp holder	5.0 (10)	<b>24290024</b>
<b>TL-LXS</b>	Telescopic Leveling Post	3.1 (7)	<b>71150003</b>
<b>ST-LXS</b>	Tripod for Laser transmitter	40.9 (90)	<b>71150002</b>
<b>FSD-PP</b>	Foldeable and detachable sun/rain roof for the operator	70.9 (155)	<b>41300004</b>
<b>Reversing alarm</b>	For POWERPLAN PP		<b>41300108</b>
<b>RKL-PP</b>	Flashing Beacon	3.5 (8)	<b>41300109</b>
<b>Diesel particle filter DPF</b>	For POWERPLAN PP	34.3 (75)	<b>41300192</b>
<b>LED-Light package PP</b>	4 additional LED work lights		<b>41300115</b>

**Diesel particle filter DPF:** Protects employees from inhaling dust particles that are harmful to health. A DPF is recommended for use in underground car parks, halls or other buildings. Owing to the modular structure of the machine, even older models can be retrofitted with a diesel particulate filter. (Retrofitting possible only at Probst)

- In stainless steel/aluminium casing with quick-release fastener for easy changing of the filter cartridge.
- Disposable filter cartridge (disposal: overground landfill, landfill class II, tied up in a plastic bag), service life > 400 operating hours depending on maintenance condition of the motor.
- Separation rate > 97% of all particles.
- Authorisation/certificates: Vert certificate: check no. B175/12.05, regulations according to TRGS 554 are fulfilled.
- Improvement of the exhaust gas sound insulation as the particle filter acts as an additional silencer.
- The filter casing is fitted with a pressure switch + electronic evaluation system => warning light on instrument panel is illuminated when differential pressure too high => filter change required.
- Delivery contents: filter casing with integrated change filter, pressure switch, electronic evaluation system, installed ready for use with supporting frame and perforated plate cover. We recommend ordering an additional replacement filter cartridge.





LK-2200 + LK-KS



LK-2200



LK-2200 + LK-KS

## LEVELKING LK Screeding Attachment

As against conventional screeding blades the LEVELKING works with integrated smoothening board. With this function it is possible to screed not only the subbase, rather the top bedding for paver laying. The LEVELKING screed fully automatic controlled, accurate, fast and efficient and is a real alternative to our wellknown POWERPLAN PP.

Due to the fully automatic height adjustment the screeding is much faster than compared with regular rail-guided systems. The LEVELKING is attachable to wheel loaders, skid-steer- and telescopic loaders. The special advantage is the already integrated floating position. There is no need for this function for the carrier machine.

Applications: construction for streets, alleys and paver laying. Screeding of hall floors, sports- and industrial areas.

Complete control system, incl. 2 Laser Sensors and 1 Three-Axle Slope Sensor optionally available.

Within 2 minutes the control elements can be connected in the cabin into the cigarette lighter.

All components (optional: laser/cross slope/ultrasonic) can be combined depending on the situation of the site.

- Hydraulic adjustment of the side wings via joystick.
- High precision control of all functions by proportional valves.
- The shovel form can also be used to carry the material forward. Special advantage: no additional loader needed!
- The attachment is equipped with a universal flange plate for the connection. It fits to all common carriage plate sizes and profiles.
- Optionally available: Hydraulic folding shovel with holding capacity of approx. 0.6 m<sup>3</sup> for even better material take-up and material distribution.

### Scope of delivery:

**LK-2200:** Basic version with machine Control and control box inc. all cables, 2 hydraulic hoses.

Type	Description	Working Pressure bar (psi)	Working Voltage V	Width mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Backflow Pressure, max bar (psi)	Hydraulic Connection Volumetric Flow l/min (gpm)	Volume Shovel m <sup>3</sup> (ft <sup>3</sup> )	Order-Number
LK-2200		180 – 250 (2,611 – 3,626)	12	2,200 (86½)	960 (2,120)	20 (290)	30 – 100 (8 – 26)	0.6 (21¼)	51300013
LK-LE	Laser receiver for LK-2200								41300247
LK-NS	3-axis slope sensor for LK-2200								41300256

## Accessories:

**LK-MUS-1300:** This sensor can be attached to the left or right side. The sensor fully-automatically controls the height as well as the relevant hydraulic pivoting side wings. Thus keeping the ultrasonic sensor in correct reference position (string or edge) and consequently compensates driving inaccuracies.

**LK-SH2:** in combination with the tri-sonic-sensor left and right side heights can be controlled.

**LK-S:** 2 sensors for mounting on the two levelling cylinders. This makes it possible to move the levelling screed to the centre position at the push of a button. Advantage: no manual adjustment of the screed via joystick.

Type	Description	Dead Weight kg (lbs)	Volume Shovel m <sup>3</sup> (ft <sup>3</sup> )	Order-Number
<b>LK-MUS-1300</b>	1 Tri-Sonic Sensor incl. bracket, hence automatic Side-Shift-Function of the side wings. Please note: only one (1) Tri-Sonic Sensor can be used with the LEVELKING LK	2.5 (6)		<b>41300121</b>
<b>LK-KS</b>	Hydraulic folding shovel for LK-2200	50 (110)	0.6 (21¼)	<b>41300188</b>
<b>LK-SH2</b>	1 standard ultrasonic sensor w/o side-shift function, incl. holder	11.4 (25)		<b>41300162</b>
<b>LK-S</b>	Sensor system for automatic centre position of the screed			<b>41300250</b>
<b>LXS</b>	Laser Set, consisting of: Leica Rugby CLI/CLX 900 (rotating biaxial horizontal laser), with charger, Li-ion battery, hardcase, binoculars, handheld receiver with integrated remote control and clamp holder	5.0 (10)		<b>24290024</b>
<b>TL-LXS</b>	Telescopic Leveling Post	3.1 (7)		<b>71150003</b>
<b>ST-LXS</b>	Tripod for Laser transmitter	40.9 (90)		<b>71150002</b>



TAK-750

## Telescopic Screeding Bucket TAK

Universally suitable for precise preparation of the laying course. Specially designed for mechanical operation.

- Special aluminium profiles – Extremely solid with low-wear and high-tensile alloy which are designed to be fully telescopic and continuously adjustable. With integrated jam system to lock and release the telescopic segments in any desired position.
- Each side equipped with height-adjustable and smooth-running roller units with sliding metal sheets and deflectors.
- No height mismatch at the single telescopic junctions as all profiles are arranged at the same level.
- The skillfull design of the profile and its height of 300 mm (11¾ inch) allows the distribution of lots of material. By universally suitable handling attachment, the TAK can be lifted and transported.
- The bucket filled with screeding material can be picked-up with a wheel loader for accurate discharge.

### Scope of delivery:

**TAK-750:** Recommended professional model, consisting of: 1 each Aluprofile 1,100, 1,700, 2,700, 3,000 mm (43¼, 67, 106¼, 118 inch) long, with integrated jam system. 1 set = 2 units height adjustable roller units with wipers, with handling system for operating with loader.

1 pair = 2 units pulling chains, incl. hooks each working width between 1,200 mm (47¼ inch) and 7,500 mm (295¼ inch) can be achieved.

**TAK-350:** Basic model, as described above, only with 2 Alu-Segments each 1,700 mm (67 inch) long, achieving each working width between 1,750 mm (69 inch) and 3,500 mm (137¾ inch).

Type	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
<b>TAK-750</b>	1,200 – 7,500 (47¼ – 295¼)	285 (630)	<b>51000013</b>
<b>TAK-350</b>	1,750 – 3,500 (69 – 137¾)	200 (440)	<b>51000018</b>



TAK-DP

## Telescopic Screeding Bucket TAK-DP

With this adjustable intermediate part, roof and tub profiles of ± 3 % can be produced.

- Equipped with a scale for setting the profile in %.

Type	Description	Dead Weight kg (lbs)	Length mm (in)	Order-Number
<b>TAK-DP</b>	Adjustable adapter	48 (105)	1,500 (59)	<b>41000042</b>



TAS-UNI-450

## Telescopic Screeding System TAS-UNI

**Universally suitable for precise and flexible screeding of laying courses on both, large and small sites. Comfortable upright working position.**

Platform atop the roller unit on which the operator can stand to increase the pressure to the ground when using the TAS-UNI mechanically.

Each side equipped with height adjustable roller units, including screeding rail cleaning wiper as well as material turn-away metal sheet.

The aluminium profile has been optimized. So the device does neither move upwards when pulled by hand nor when pulled with chains mechanically. In one run a clean and exact screed can be produced.

- The profile was increased in order to be able to move more material when the pre-distribution of the screeding material is very rough.
- Working width up to 6,000 mm (20 feet) by duplicating the profile.
- Special aluminium profiles, consisting of a low wear, high-tensile alloy are designed to be fully telescopic with one another, seamlessly. With integrated jam system to lock the telescopic parts in any desired position.
- All metall parts are galvanized.
- Proper height adjustment can be read from a scale (0 – 25 cm / 0 – 9¾ inch).
- For hand operation the TAS can be easily pulled by means of standard shovels while standing in comfortable upright position.

### Scope of delivery:

**TAS-UNI-450:** recommended basic configuration: 1 Aluminium-Profile each of 750, 1,000, 1,750, 2,000 mm (29½, 39½, 68¾, 78¾ inch) long with integrated clamping adjustment.

1 set = 2 side positioned, height-adjustable roller units with metal steps and sheet-metal wipers with integrated fastener for the required segments with hook-in-system for shovel. 2 pulling chains, incl. hooks.

**TAS-UNI-600:** standard configuration as above, plus 1 Alu-Profile 3,000 mm (118¼ inch) long.

Type	Width mm (in)	Dead Weight kg (lbs)	Order-Number
<b>TAS-UNI-450</b>	750 – 4,500 (29½ – 177¼)	85 (185)	<b>51000042</b>
<b>TAS-UNI-600</b>	750 – 6,000 (29½ – 236¼)	110 (245)	<b>51000043</b>



TAS-UNI-DP

## Adjustable Adapter for Roof-/Pan Profile TAS-UNI-DP

**With this adjustable adapter any roof or pan profile of +/- 4% can be screeded.**

The adapter can be adjusted exactly and directly above scale.

Type	Description	Width mm (in)	Dead Weight kg (lbs)	Order-Number
<b>TAS-UNI-DP</b>	1 adjustable adapter for roof and pan profiles (+/- 4 %)	2,100 (82¾)	25 (55)	<b>41000173</b>



EP-UNI-230/300

## EASYPLAN EP-UNI Handscreeding System

The EP-UNI is an optimal hand-tool for an economical performance of smaller and medium-sized sites. It's quicker, easier and better.

Flanged at the sides, optionally available height-adjustable roller units take the height off existing kerbs, pavers or similar. This is possible not only with the basic element but also with the telescopic elements. No further rail gauges are necessary, thus granting additional time-saving!

- Continuously adjustable telescopic elements.
- With only one system you can screed different working widths easily and exactly. EP-UNI is adjustable to the required working width between.
- With two telescopic elements the basic Alu-profile can be enlarged.
- Including special key for fast mounting of the telescopic elements and the roller units.
- No flexing with the strong Alu-profile, even at working-widths up to maximum 3 m!
- Due to special design, the profile does not leave the screeding rail even when working with large quantities of screeding material.
- The handle of EP 230/300 is adjustable to the required angle-positioning.
- The special design of the handle enables the operator to use their bodyweight to exert pulling force in every position of the EP-profile.
- With the EP 90/230 the screeding material can be carried and filled exactly into the gaps left by the screeding rails, for example water-pipes.
- Handle removable for transport.

### Scope of delivery:

**EP-UNI-Set 90/230:** 1 Alu-Profile each 900 mm (35½ inch) and 1,600 mm (63 inch), 1 handle, 2 telescopic units each 350 mm (13¾ inch)

**EP-UNI-Set 230/300:** 1 Alu-Profile 2,300 mm (90½ inch), 1 three-dimensional handle, 2 telescopic units each 350 mm (13¾ inch)

Type	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
<b>EP-UNI-Set 90/230</b>	900 – 2,300 (35½ – 90½)	16 (35)	<b>51000040</b>
<b>EP-UNI-Set 230/300</b>	2,300 – 3,000 (90½ – 118)	15 (35)	<b>51000041</b>

### Accessories

Type	Description	Dead Weight kg (lbs)	Length mm (in)	Order-Number
<b>EP-UNI-RS</b>	Set of Roller Units (can be added later)	4.8 (10)		<b>41000165</b>
<b>1 Set of Telescopic Units</b>	for EP-UNI 2 x 350 mm (13¾")	3 (7)	350 (13¾)	<b>41000164</b>





TP-150/260 with HG-ERGO-DUO



TP-150/260 with HG-ERGO-SOLO

## TELEPLAN TP Handscreeding System

The TELEPLAN TP aluminium profile is sickle shaped. As a result the profile cuts itself into the bedding material and does not move upwards! No need for executing any force to push it down when pulling. Especially when screeding compacted sand, also in case of the screed bar cannot be moved sideways sawing off the bedding material due to lateral obstacles or boundaries, the advantages of the TP profile are enormous with regard to effort of energy, working speed and high-quality performance of the laying course. Two (2) TP profiles can be connected together in order to be telescopically adjusted in a simple and sturdy way. Thus one and the same tool can be used for various working widths. Two fixed clamping units to connect both profiles, clamping units can not get lost. With height adjustable height stop on both sides, range of adjustment 0 – 127 mm (0 – 5 inch). Can be taken off quickly if required.

- Integrated fitting for additional pulling handles TP-HG included in the side parts and HG-ERGO-DUO.
- One level indicator incorporated inside the TP profile.
- The light-weight aluminium hollow profile is extremely sturdy (high-tensile material – weight is 1.3 kg /3 lbs per meter).
- Long Lifespan.

**NEW**

### HG-ERGO-SOLO and HG-ERGO-DUO

See accessories

Type	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
TP-60/100	600 – 1,000 (23½ – 39¼)	3.7 (8)	51010006
TP-100/165	1,000 – 1,650 (39¼ – 65)	4.6 (10)	51010001
TP-150/260	1,500 – 2,600 (59 – 102¼)	6 (15)	51010002
TP-200/350	2,000 – 3,500 (78¾ – 137¾)	7.3 (15)	51010003

### Accessories:

**TP-HG:** Handle TELEPLAN. Set of 2 pulling handles, allowing relaxed and ergonomically correct body position standing upright.

Handles HG-TP can easily be fixed through plug-in connectors to the side parts.

**HG-ERGO-SOLO:** Handle for TELEPLAN and FIXPLAN, which has been further developed according to ergonomic aspects. 1 piece incl. handle holder, enables fatigue-free working in a standing body position.

**HG-ERGO-DUO:** Handles for TELEPLAN and FIXPLAN, which have been further developed according to ergonomic aspects. Set consisting of 2 pieces, allow fatigue-free working in standing body position, can be attached to the side parts at any time via a plug-in fastener.

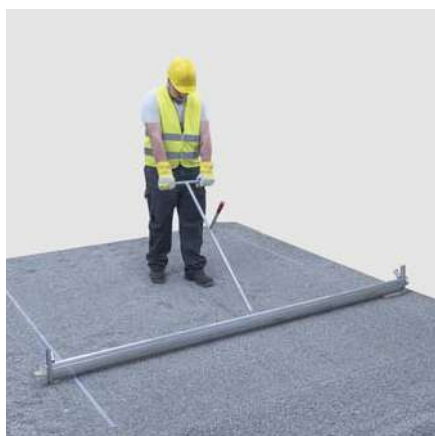
**TP-HGH:** Handle fastener. One set consisting of two (2) pieces. Can be fixed easily in any position at the profile even at the overlapping sections to fasten the two handles TP-HG. Enables just one person to screed larger working widths in upright position easy-going and quickly.

Type	Description	Dead Weight kg (lbs)	Order-Number
TP-HG	Available while stocks last	2.4 (5)	51010005
HG-ERGO-SOLO	Available from 2nd quarter 2022	2.6 (6)	41010074
HG-ERGO-DUO	Available from 2nd quarter 2022	4.3 (9)	41010072
TP-HGH	Available while stocks last	0.8 (2)	51010008





FP-200 with HG-ERGO-DUO



FP-250 with HG-ERGO-SOLO

## FIXPLAN FP Handscreeding System

**NEW**

**Quick and easy planing of small and medium-sized areas – with the new FIXPLAN FP handscreeding system.**

The FIXPLAN FP aluminium profile is sickle shaped. As a result the profile cuts itself into the bedding material and does not move upwards! No need for executing any force to push it down when pulling. Especially when screeding compacted sand, also in case of the screed bar cannot be moved sideways sawing off the bedding material due to lateral obstacles or boundaries, the advantages of the FP profile are enormous with regard to effort of energy, working speed and high-quality performance of the laying course.

With height adjustable height stop on both sides, range of adjustment 0 – 127 mm (0 – 5 inch). Can be taken off quickly if required.

- 4 screeding widths available.
- Integrated fitting for optionally available handles HG-ERGO-DUO included in the side parts.
- With the optionally available handle HG-ERGO-SOLO, the FIXPLAN FP can also be used by just one person.
- The light-weight aluminium hollow profile is extremely sturdy (high-tensile material – weight is 1.3 kg / 3 lbs per meter).
- Long Lifespan.

Type	Width mm (in)	Dead Weight kg (lbs)	Height Adjustable Range mm (in)	Order-Number
<b>FP-70*</b>	700 (27½)	2.5 (6)	0 – 127 (0 – 5)	<b>51010015</b>
<b>FP-150*</b>	1,500 (59)	3.6 (8)	0 – 127 (0 – 5)	<b>51010016</b>
<b>FP-200*</b>	2,000 (78¾)	4.3 (9)	0 – 127 (0 – 5)	<b>51010017</b>
<b>FP-250*</b>	2,500 (98½)	4.95 (10)	0 – 127 (0 – 5)	<b>51010018</b>

### Accessories:

**HG-ERGO-SOLO:** Handle for TELEPLAN and FIXPLAN, which has been further developed according to ergonomic aspects. 1 piece incl. handle holder, enables fatigue-free working in a standing body position.

**HG-ERGO-DUO:** Handles for TELEPLAN and FIXPLAN, which have been further developed according to ergonomic aspects. Set consisting of 2 pieces, allow fatigue-free working in standing body position, can be attached to the side parts at any time via a plug-in fastener.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>HG-ERGO-SOLO</b>	Available from 2nd quarter 2022	2.6 (6)	<b>41010074</b>
<b>HG-ERGO-DUO</b>	Available from 2nd quarter 2022	4.3 (9)	<b>41010072</b>



MP-70 with attached height adjustment HV-MP

## MINIPLAN MP Sliding Finisher

**This lightweight, handy and smart tool allows effective finishing work on screeded areas. Especially suitable to clean up sreed rail marks.**

But also larger areas can be screeded very quickly with the MP-70, for example around gullies with different levels. Depending on the angle, the operator can decide to let the tool: dig in, to move more material or to float to do only final finishing work.

MP-70: Aluminium hollow profile, very lightweight.

Robust, lightweight hardwood handle (MP-70).

Sturdy holder for handle fixed to the profile.

MP-30 with lightweight, short aluminium handle.

■ Low dead weight, as made of aluminium.

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Type	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
<b>MP-30</b>	300 (11¾)	0.8 (2)	<b>51010012</b>
<b>MP-70</b>	700 (27½)	1.7 (4)	<b>51010004</b>

### Accessories:

Type	Description	Dead Weight kg (lbs)	Height Adjustable Range mm (in)	Order-Number
<b>HV-MP</b>	Height adjustment, no problem to fit to your existing MP-70 later.	0.36 (1)	45 – 170 (1¾ – 6¾)	<b>41010039</b>



LH

## LEVELHANDY LH

**Simple screeding tool to achieve a clean connection to already laid pavers or kerbs.**

Simply place the LH on the existing screed level.

Set the height adjustable support via tightening a wing nut to the right height towards the kerb or existing pavement.

The screeded area now can be adjusted easily and precisely using this practical tool.

Type	Working Width mm (in)	Dead Weight kg (lbs)	Height Adjustable Range mm (in)	Order-Number
<b>LH</b>	300 (11¾)	1.8 (4)	0 – 250 (0 – 9¾)	<b>51000088</b>



LF-125/215. bottom left: Wheel height adjustment



LF-75/125

## LEVELFIX LF Manual Screeding System

**The universal manual screeding system – move a large amount of material easily in a short time, on large wheels.**

The LF system is an efficient tool for landscape contractors who are looking for a tool for spreading and also screeding bedding material for paved areas quickly, flexibly and precisely, while maintaining ergonomically sound posture.

Suitable for gardener for preparation of planting beds, lawn areas and similar. Also suitable for levelling wood chip or gravel paths.

Level surfaces can be created in a very short space of time and the process, which uses plastic wheels with flat rubber tread, which leave hardly any traces in the surface.

- On both sides height adjustable wheels, with height indicator for adjusting the surface level to the kerb for instance. Adjustment range -40 / +170 mm (-1½ / +6¾ inch).
- Adjustable roof profile integrated as standard: LF-75/125: 7%, LF-125/215: 4%, LF-170/310: 2.5 %.
- Scraper sheets made from non-rusting stainless steel.
- Cutter with sharp edge on the lower scraper edges allows materials to be excoriated even where there is compacted sand.
- Lasting surface protection on all other components thanks to galvanic zinc plating.
- Handle adjustable for optimum ergonomics.
- Spirit level bubble fitted on the top right edge of the scraper sheet.
- Second handle LF-HG for wide working width for 2 people operation for LF-170/310 available as an option.

### Scope of delivery:

**LF-75/125:** 1 pair of stainless steel scraper sheets, 1 x central rolling unit, 1 x handle with holder, 2 x height-adjustable external roller sets.

**LF-125/215:** See LF-75/125, but 2 x roller units.

**LF-170/310:** See LF-75/125, but 2 x roller units.

Type	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
LF-75/125	750 – 1,250 (29½ – 49¼)	22 (50)	51000084
LF-125/215	1,250 – 2,150 (49¼ – 84¾)	32 (70)	51000085
LF-170/310	1,700 – 3,100 (67 – 122)	42 (95)	51000086

### Accessories:

Type	Description	Dead Weight kg (lbs)	Order-Number
LF-HG	Complete handle incl. bracket for LF-170/310	3 (7)	41000317



AZL

## Screeding Rails AZL for Screeding Systems TAK and TAS-UNI

- Special aluminium profile (60 x 60 mm / 2½ x 2½ inch), achieving highest strength and low dead weight.
- Simple, strong, integrated plug system by 2 conical bolts, plugs cannot be lost!
- A cubical inclined plane of section gives inlined joints in each direction. Impossible to hook in with the wipers!

**AZL-Set-20:** For the daily use on both, small and medium sites.

**AZL-Set-24:** For the daily use on both, small and medium sites.

**AZL-Set-60:** recommended set for bigger sites and mechanical installation.

Type	Description	Dead Weight kg (lbs)	Length m (ft)	Order-Number
<b>AZL-Set-20</b>	6 x 3 m, 2 x 1 m (6 x 118¼ in, 2 x 39½ in)	40 (90)	20 (65½)	<b>51000039</b>
<b>AZL-Set-24</b>	6 x 3 m, 2 x 2 m, 2 x 1 m (6 x 118¼ in, 2 x 78¾ in, 2 x 39½ in)	48 (105)	24 (78¾)	<b>51000014</b>
<b>AZL-Set-60</b>	12 x 4 m, 4 x 2 m, 4 x 1 m (12 x 157½ in, 4 x 78¾ in, 4 x 39½ in)	120 (265)	60 (196¾)	<b>51000015</b>
<b>AZL-1</b>	1 piece, 1 m (39½ in) long	2 (4)	1 (3¼)	<b>51000017</b>
<b>AZL-2</b>	1 piece, 2 m (78¾ in) long	4 (9)	2 (6½)	<b>51000020</b>
<b>AZL-3</b>	1 piece, 3 m (118¼ in) long	6 (15)	3 (9¾)	<b>51000016</b>
<b>AZL-4</b>	1 piece, 4 m (157½ in) long	8 (20)	4 (13)	<b>51000019</b>



AZL-EP

## Screeding Rail Kit AZL-EP for Handscreeding System EASYPLAN EP-UNI

Through integrated plug-in connections it is very easy to join these lightweight screeding rails together. A cubical inclined plane of section gives inclined joints in each direction. Impossible to hook in with the wipers.

- Non-corroding due to use of galvanized steel pipes (Diameter 26,9 mm / 1 in).
- Simple, robust, integrated plug system. Nondetachable!

### Scope of delivery:

**AZL-EP Set:** consisting of: 2 x 1,5 m (59 in), 4 x 2,5 m (98½ in), 4 x 3 m (118¼ in).

Type	Dead Weight kg (lbs)	Length m (ft)	Order-Number
<b>AZL-EP Set</b>	41 (90)	25 (82)	<b>51000057</b>







SAH

## Paver Lifter SAH

To lift out uncompacted pavers quick and easy, for example when marker pavers in different colour should be laid in.

- Durable surface protection by galvanizing

Type	Description	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
SAH	Paver Lifter	90 – 400 (3½ – 15¾)	4.9 (10)	51800050



SZ

## Paving Block Extractor SZ

An essential tool for any contractor who lays paving blocks or carries out repairs to paved surfaces. Adjustable to fit any size and shape of paver.

With Locking Device!

The operator does not need to continually squeeze the SZ-handles together!

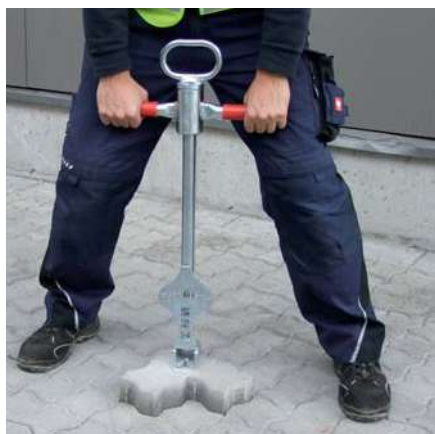
The spring steel blades can be driven into the joints of existing pavements without problems by the combination hammer.

- With Locking Device: The operator does not need to continually squeeze the SZ-handles together!
- The gripping width can be adjusted without tools.
- Easily exchangeable, high quality profiled spring steel blades.
- Durable surface protection by galvanizing

Type	Description	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
SZ	Paving Block Extractor	90 – 330 (3½ – 13)	4 (9)	51800030

### Spare Parts:

Type	Description	Dead Weight kg (lbs)	Order-Number
Spare blade short	(55 mm / 2¼ inch) per piece, loose	0.04 (0.09)	41800001
Spare blade short	(55 mm / 2¼ inch) 2 pieces in blister pack	0.08 (0.18)	41800242
Spare blade long	(65 mm / 2½ inch) per piece, loose	0.04 (0.09)	41800003
Spare blade long	(65 mm / 2½ inch) 2 pieces in blister pack	0.09 (0.18)	41800243



SZH



SZH

## Block Extractor Hammer SZH

The SZH SZH block extractor hammer can be used to remove stones that have already been laid without damaging neighbouring stones.

Particularly with very high-quality paving blocks and slabs, it can happen after vibration that individual blocks with minor damage have to be replaced.

If conventional block extractors are used, with blades that grip into the joint, damage to the neighbouring blocks can occur.

**a.** The defective block is drilled centrally with the battery-powered hammer drill.

The concrete screw is screwed in with the battery screwdriver until the head still protrudes by approx. 10 – 15 mm (¼ – ½ inch).

**b.** The SZH grips under the screw head.

**c.** The impact weight is pulled upwards with two hands (see arrow in diagram).

After a few strokes, the defective block can be removed.

■ Durable surface protection by galvanizing.

### Scope of delivery:

**SZH:** Includes 5 concrete screws with hexagonal head and compressed washer, 6 x 80/SW 13.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>SZH</b>	Block Extractor Hammer	8 (20)	<b>51800094</b>

### Accessories

Type	Description	Order-Number
<b>Set of concrete screws</b>	6 x 80/SW 13 (100 pieces)	<b>41800239</b>



RE

## Alignment Bar RE

For aligning the paving stones before they are permanently set.

- With two handles, a foot bar and a hammering surface to drive it into the paver joints using a hammer.
- With exchangeable, robust, sharp-edged hardened spring steel blade for driving into the hinge joints.
- Durable galvanized surfaces.

Type	Dead Weight kg (lbs)	Order-Number
RE	2.7 (6)	51800011

### Spare Parts:

Type	Description	Order-Number
Spare blade for RE/MRE	(95 mm / 3¾ inch) per piece, loose	41800002
Spare blade for RE/MRE	(95 mm / 3¾ inch) 1 piece in blister pack	41800241



MRE

## Multiple Alignment Bar MRE

The „Turbo Accelerator“ for alignment work: Instead of moving only one row of pavers, the MRE can move 4 or up to 5 rows at the same time.

- Especially suitable for alignment work on mainly rectangular shaped pavers.
- With 4 exchangeable, adjustable, sturdy, sharp edged hardened spring steel blades.
- With 2 handles and one hammering surface to drive it into the paver joints.
- Durable galvanized surfaces.

Type	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
MRE	650 (25½)	6 (15)	51800045

### Spare Parts:

Type	Description	Order-Number
Spare blade for RE/MRE	(95 mm / 3¾ inch) per piece, loose	41800002
Spare blade for RE/MRE	(95 mm / 3¾ inch) 1 piece in blister pack	41800241





GH-ERGO

## Rubber Hammer GH-ERGO

Now with extra long handle for ergonomic working.

The GH-ERGO is equipped with two different rubber elements. One side is equipped with a rectangular, slightly bevelled profile. This way the rubber profile hits the stone flat without the user having to stand too close to the edge of the stone layer. On the second side, the profile is tapered, this enables an accurate strike, e.g. into the grooves of H-stones.

- The extension of the hammer handle from the previous 800 mm to 1000 mm (31½ to 39½ inch) enables an ergonomically upright posture and thus fatigue-free working.
- By using special butyl rubber elements, wrists and elbows are now also protected. The unpleasant springing back when striking is completely eliminated by the damping without reducing the striking power.
- A further helpful feature is the plastic protective disk. This allows height corrections of individual paving stones or slabs that are too high to be made by tapping them on the face without damaging the stone surfaces.

Type	Dead Weight kg (lbs)	Length mm (in)	Order-Number
<b>GH-ERGO</b>	2.9 (6)	1,000 (39¼)	<b>51800113</b>
<b>GH-ERGO-K</b>	2.5 (6)	400 (15¾)	<b>51800114</b>

### Spare Parts:

Type	Description	Order-Number
<b>Rubber cover</b>	for GH-ERGO (2 x bevelled), per piece	<b>36330327</b>
<b>Rubber cover</b>	for GH-ERGO (1 x bevelled), per piece	<b>36330328</b>
<b>Plastic disc</b>	Protective disk for stone (for GH-ERGO)	<b>33250280</b>
<b>Rubber cover</b>	for version GH/GH-K (Order-No. 51800012/51800051), per piece	<b>41800006</b>



SXH-1,8

## Soft-face mallet SXH-1,8

**NEW**

Universally suitable for a wide range of applications in landscaping and trade.  
The indispensable companion on the construction site.

- Two-part housing made of cast steel.
- High-quality, ergonomically shaped wooden handle.
- Replaceable, low-wear impact inserts: 1 x black medium hard rubber and 1 x red hard plastic head.

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Length of Handle mm (in)	Order-Number
<b>SXH-1,8</b>	60 (2¼)	1.8 (4)	330 (13)	<b>51800130</b>

## Spare Parts:

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Order-Number
Replacement head black	60 (2¼)	0.2 (0.4)	41800266
Replacement head red	60 (2¼)	0.22 (0.5)	41800267



SXH-3,2

## Soft-face mallet SXH-3,2

**NEW**

Universally suitable for a wide range of applications in landscaping and trade.  
The indispensable companion on the construction site.

- Two-part housing made of cast steel.
- High-quality, ergonomically shaped wooden handle.
- Replaceable, low-wear impact inserts: 1 x black medium hard rubber and 1 x white very hard nylon head.

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Type	Diameter mm (in)	Dead Weight kg (lbs)	Length of Handle mm (in)	Order-Number
SXH-3,2	80 (3¼)	3.2 (7)	493 (19½)	51800131

## Spare Parts:

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Order-Number
Replacement head black	80 (3¼)	0.42 (1)	41800271
Replacement head white	80 (3¼)	0.40 (1)	41800269



SXH-3,6

## Soft-face mallet SXH-3,6

**NEW**

Universally suitable for a wide range of applications in landscaping and trade.  
The indispensable companion on the construction site.

- Two-part housing made of cast steel.
- High-quality, ergonomically shaped wooden handle.
- Replaceable, low-wear impact inserts: 1 x black medium hard rubber and 1 x white very hard nylon head.
- With extra long handle.

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Length of Handle mm (in)	Order-Number
SXH-3,6	80 (3¼)	3.6 (8)	797 (31½)	51800145

## Spare Parts:

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Order-Number
Replacement head black	80 (3¼)	0.42 (1)	41800271
Replacement head white	80 (3¼)	0.40 (1)	41800269

4



## Deadblow SXH-1,3 / SXH-2,3

**NEW**

- Welded steel construction.
- High-quality, ergonomically shaped wooden handle.
- Low-wear impact inserts: 2 x white very hard nylon heads.

SXH-2,3

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Length of Handle mm (in)	Order-Number
SXH-1,3	60 (2¼)	1.75 (4)	305 (12)	51800127
SXH-2,3	70 (2¾)	2.3 (5)	305 (12)	51800128



## Bush Hammer STH-0,9

**NEW**

**For surface treatment of stone surfaces.**

- Gives the stone a worked appearance.
- Creates a „split face“ after saw cutting.
- Use on retaining wall block or pavers.
- Hardened steel head.

STH-0,9

Type	Dead Weight kg (lbs)	Length of Handle mm (in)	Order-Number
STH-0,9	1.2 (3)	330 (13)	51800129



Top: PB-I, bottom left: PB-15/24, bottom right: PB-15/24-L

## PAVERBOY PB

For the efficient laying of paving blocks directly from the stack.  
Particularly suitable for large blocks.

- Durable surface protection by galvanizing.

**PB-I:** Two double-T-stones can be picked up and then layed at the same time.

**PB-15/24:** Hexagonal slabs and similar blocks which cannot be lifted with one hand, can be laid.

**PB-15/24-L:** With long handles for effortless installation of various types of stones, such as double-T-bricks or large-size paving stones.

Core benefit: At mechanical installation often times single paving stones have to be laid into the gaps to complete the stone bonds. This succeeds easily with the PB-15/24-L in upright body position without bending down.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>PB-I</b>	1.22 (3)	100 – 170 (4 – 6¾)	10 (20)	<b>51800001</b>
<b>PB-15/24</b>	1.42 (3)	150 – 240 (6 – 9½)	10 (20)	<b>51800004</b>
<b>PB-15/24-L</b>	2.3 (5)	150 – 240 (6 – 9½)	10 (20)	<b>51800115</b>



RVH

## Turf Stone Handles RVH

Used in pairs and designed specially for laying turf stones.

Installs 1 to 5 units at once.

- Durable surface protection by galvanizing.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>RVH</b>	1 pair	5.32 (10)	<b>51800021</b>





KKT

## Brick Handles KKT

- For the efficient transportation of bricks from the pallet to the laying surface.
- Adjustable.
- Durable surface protection by galvanizing.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
KKT	2 (4)	400 – 670 (15¾ – 26½)	50 (110)	51800025



ENZ

## Pin Extractor ENZ

Simple but very efficient tool to pull out string line pins used on construction sites.

- The previous time consuming and often injury causing method, to pull out pins just by hand or using pliers, hammer and such are gone now.
- With the ENZ, the pins are not bent when pulled out.
- When lifted up, the V shaped clamping system locks to the pin. Now pulling and turning movements to loosen the pin can be exerted without any real physical effort.
- Durable surface protection by galvanizing.
- Hardened gear segment.

Type	Description	Diameter outside mm (in)	Dead Weight kg (lbs)	Order-Number
ENZ	Pin Extractor	10 – 30 (½ – 1¼)	0.64 (1.4)	51800038

**NEW**



ENZ-PROTECT

## Pin Extractor ENZ-PROTECT

Simple but very efficient tool to pull out string line pins with electric shock protection cap used on construction sites.

- The previous time consuming and often injury causing method, to pull out pins just by hand or using pliers, hammer and such are gone now.
- Without using the ENZ, pins often get bent.
- When lifted up, the V shaped clamping system locks to the pin. Now pulling and turning movements to loosen the pin can be exerted without any real physical effort.
- Durable surface protection by galvanizing.
- Hardened gear segment.
- Lateral insertion of the ENZ-PROTECT on ground nails with plastic protective cap.
- Plastic handle reduces risk of electric shock in case of accidental damage to underground cables.

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Order-Number
<b>ENZ-PROTECT*</b>	10 – 35 (½ – 1½)	1.0 (2.2)	<b>51800162</b>

\* Expected to be available as of 2nd quarter 2022



RSH

## Plumb Line Fixture RSH

The plumb line fixture RSH allows for precise guidance of the plumb line in vertical and horizontal direction in combination with a pin extractor.

- Enormous time-savings for preparation of straight lines and right angles.
- Accurate alignment of the plumb line providing simple readjustment if required.
- The plumb line can be tightened precisely such as on rocky grounds or with pipe lines as the pin extractor can be moved.
- Durable surface protection by galvanizing.

### Scope of delivery:

Set consisting of: 1 clamping joint, 2 wing nuts and 1 cross rod with a length of 500 mm

**RSH:** 1 clamping joint, 2 wing nuts and 1 cross rod with a length of 500 mm

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Order-Number
<b>RSH</b>	5 – 20 (¼ – ¾)	0.8 (1.8)	<b>51800081</b>



MAL

## Measuring and Marking Tool MAL

An essential tool for marking out paving stones and slabs to be cut.

- Easy and quick transfer of angle and distance of the cutting edge.

Type	Dead Weight kg (lbs)	Order-Number
<b>MAL</b>	0.58 (1.3)	<b>51800026</b>



PM

## PAVERMARKER PM

The smart marker for horticulture and landscaping, par excellence.

- Marks nearly all concrete products with a constant line thickness, pavers can then be cut to fit perfectly.
- Suitable for dry and wet surfaces, leaves no permanent marks, weathers itself after a short while.
- Unbreakable, crayon is reinforced with embedded glass fibers.
- Wear-resistant, one PM marks thousands of paving stones.

### Scope of delivery:

**PM:** 5 pieces in white in bag.

Type	Dimensions L x W x H mm (in)	Dead Weight kg (lbs)	Order-Number
<b>PM</b>	120 x 30 x 2 (4¾ x 1¼ x ¼)	0.1 (0.2)	<b>51800069</b>



Top: for walls, bottom: for pavers, slabs and kerb stones

## STRINGTIGHT SB

The innovative new STRINGTIGHT SB for the horticulture, landscaping, building and construction industry.

Straight and square edges are required when installing paving stones, kerbs, slabs and bricks. Conventional plumb lines often catch against the stone thus not giving an accurate straight line reading. The STRINGTIGHT SB provides a clearance of approx. 5 mm (1/4 inch) between stone and string line – giving great results every time!

- The practical tool for paver laying and masonry work.
- Made of robust steel, powder coated.
- Adjustable distance of the string line laterally and vertically.
- With string line take-up and functional slot to place a level on.

### Scope of delivery:

**SB:** The kit contains 2 metal brackets, 1 roll of Nylon line: thickness 1,4 mm (1/4 inch) with a length of 100 m (3937 inch). Comes in a decorative promotional display rack each with 12 kits.

Type	Description	Dimensions L x W mm (in)	Dead Weight kg (lbs)	Order-Number
SB	STRINGTIGHT promotion display	120 x 120 (4 3/4 x 4 3/4)	8.3 (20)	51800072

### Accessories

Type	Description	Order-Number
Spare line	1 roll of Nylon line: thickness 1,4 mm (1/4 inch) with a length of 100 m (3937 inch)	25400012



QD

## QUICKDRAW QD

A clever paver-marking tool for concrete and paving stones.

- No problems with the marking of distances of kerbstones, walls, etc. for later stone cutting.
- Time saving with marking works.
- Especially effective with soldier course.
- Tough construction made of aluminium and stainless steel.
- Roller guide for quick and accurate marking.

### Scope of delivery:

**QD:** Set incl. wax crayon and felt crayon.

Type	Dead Weight kg (lbs)	Order-Number
QD	2 (4.4)	51800034





SA

## STRING ALONG SA

The brilliantly simple and flexible line holder for all setup work performed with a plumb line.

The STRING ALONG SA is simply slipped over the pin and fixed to the pin at the desired height with the wing screw. Now the line can be looped around the line holder at any time and attaches itself to the teeth in the two grooves of the SA.

If necessary, the cord can be removed at any time without losing the height adjustment.

- Generally the SA can be used for all kind of layouts where string lines are used, especially beneficial if the string line has to be taken away temporarily and repositioned afterwards at the same position.
- Gripping teeth hold the string line safely under tension at any time.
- No more string line knots, or confusing marks on the pins.

### Scope of delivery:

SA: Pieces 6 in bag.

Type	Description	Diameter inside mm (in)	Dead Weight kg (lbs)	Order-Number
SA	Suitable for pin diameters max. 25 mm (1 inch)	25 (1)	0.24 (1)	51800062



AW-200

## Aluminium Angle AW-200

For precise alignment of interlocking paving stones.

Adjustable to 45°, 60° and 90°.

Foldable.

Type	Dimensions L x W mm (in)	Dead Weight kg (lbs)	Order-Number
AW-200	2,000 x 2,000 (78¾ x 78¾)	6 (15)	51800018



AW-60

## Aluminium Angle AW

For precise alignment of interlocking paving stones.

Operating angles: 45° and 90°.

Foldable.

Type	Dimensions L x W mm (in)	Dead Weight kg (lbs)	Order-Number
<b>AW-60</b>	600 x 800 (23½ x 31½)	0.72 (2)	<b>51800052</b>
<b>AW-120</b>	1,200 x 1,200 (47¼ x 47¼)	1.7 (4)	<b>51800085</b>



FMK

## FLEXMARKER-KIT FMK

The **FLEXMARKER-KIT FMK** is a complete system to shape and mark tailor-made curves. Creating dynamically shaped paths without visual interruptions.

Work mode 1: For paths and bed edges, the so called one-liner, are laid in dry concrete. For that purpose the FLEXMARKER-KIT FMK can be fixed at the pins with the clamps. It doesn't only show the curve, it also shows the vertical profile.

Work mode 2: The interconnecting fiberglass rods can be securely fixed on the existing pavement with the fixing claws. The curve can be marked by spray paint or chalk (e.g. PAVERMARKER PM of Probst). Weighted by paving stones, the claws are immovably fixed.

- Harmonious curves can be prepared quickly and with enormous time savings.
- Smallest bending radius 15 cm (6 inch).

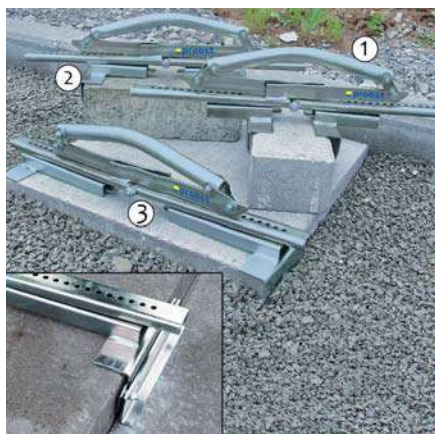
### Scope of delivery:

**FMK:** Set consisting of 10 fiberglass rods, 5 fixing claws and 10 clamps.



FMK

Type	Dead Weight kg (lbs)	Order-Number
<b>FMK</b>	3.1 (7)	<b>51800074</b>



1. PPH-10/37, 2. PPH-22/50, 3. PPH-33/62,  
bottom: PPH-AA



PPH-ERGO-HG with PPH-22/50

## Professional-Slab Handle PPH

For laying concrete and natural stone slabs.

- Large adjustable range for all slabs.
- With large leverage.
- Very stable professional design.
- Exchangeable grippers.
- Durable surface protection by galvanizing.

**PPH-S-10/62:** comes as a set with a basic unit and 3 sets of grippers.

**PPH-ERGO-HG:** Ergonomically long handle for retrofitting to all PPH slab handles, which can thus also be used in a standing position without strain on the back. With automatic change-over function, i.e. PPH can be lifted off again without the plate being lifted again.

**PPH-AA:** Support adapter for retrofit at any time PPH-AA allows for quick and more accurate fit in. (1 unit required per PPH).

**PPH-2-HG:** 2-man carrying handle for all PPH models. With one wing nut, the handle can be turned through 90° as required.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>PPH-10/37</b>	1.54 (3)	100 – 370 (4 – 14½)	60 (130)	<b>53200053</b>
<b>PPH-22/50</b>	1.6 (4)	220 – 505 (8¾ – 20)	60 (130)	<b>53200052</b>
<b>PPH-33/62</b>	1.6 (4)	330 – 620 (13 – 24½)	60 (130)	<b>53200054</b>
<b>PPH-S-10/62</b>	3 (7)	100 – 620 (4 – 24½)	60 (130)	<b>53200055</b>

## Accessories

Type	Dead Weight kg (lbs)	Length mm (in)	Order-Number
<b>PPH-ERGO-HG</b>	1.5 (3)	670 (26½)	<b>43200124</b>
<b>PPH-AA</b>	0.15 (0.3)		<b>43200079</b>
<b>PPH-2-HG</b>	2.42 (5)		<b>43200085</b>



PZ

## Slab Extractor PZ

For extracting single slabs, it has a robust construction so that the blades can be hammered into the joints.

- With Locking Device. The operator does not need to continually squeeze the PZ-handles together!
- Adjustable without tools.
- Complete with easily exchangeable high-quality-special double spring-steel blades.
- Galvanised finish.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
PZ	6 (15)	200 – 610 (7¾ – 24)	70 (155)	53200006

### Spare Parts:

Type	Description	Dead Weight kg (lbs)	Order-Number
Spare blade short	(55 mm / 2¼ inch) per piece, loose	0.04 (0.09)	41800001
Spare blade short	(55 mm / 2¼ inch) 2 pieces in blister pack	0.08 (0.18)	41800242
Spare blade long	(65 mm / 2½ inch) per piece, loose	0.04 (0.09)	41800003
Spare blade long	(65 mm / 2½ inch) 2 pieces in blister pack	0.09 (0.18)	41800243



SF

## SAFEFLEX SF

The innovative clamping fixture for cutting stone safely.

The risk of cuts can be reduced considerably with the SAFEFLEX SF. It can secure building materials such as cobblestones and natural flagstones quickly and safely. This makes cutting with the angle grinder easier, safer and more precise.

To secure the building material, the user pushes on the top clamping element with one foot. When the user takes their foot off the non-slip tread, springs push the clamping elements apart again and the building material can be removed.

- Elevation of the material being cut, so cutting wheel does not go into the ground.
- Non-slip mat to prevent stones from sliding sideways.
- Fast and simple adjustment of stone thickness in using 2 lateral locking bars.
- Individually adjustable height of the SAFEFLEX with 4 screws that can be turned in on the bottom.
- Suitable for right and left-handed use.
- Fast fixation without additional tools.
- Saves material since smaller "offcuts" can be safely secured, even with a small supporting surface.
- Easy to transport since the SAFEFLEX is much smaller than a wet cutting bench for example.
- Durable surface protection by galvanizing.



Type	Dead Weight kg (lbs)	Height Adjustable Range mm (in)	Clamping Range mm (in)	Order-Number
SF	7.46 (15)	10 (½)	30 – 160 (1¼ – 6¼)	51210001





STS-33



STS-43

## STONE SPLITTER STS

**The new block cutters from Probst – more splitting force with reduced effort.**

Snap blocks without great force: easy! With the perfect combination of lever and eccentric transmission and a triangular knife, huge splitting force with minimal operating force is generated with all mechanical block snappers.

Blocks can therefore be cut cleanly without dust, noise or wastewater.

No particulate emissions occur, which are harmful to health.

**STS-33 / STS-43:** Spring-mounted supporting table (both halves of the table tiltable) allows clean undercut for precise laying without uneven large gaps.

**STS-33-F:** With tilted, rigid supporting table, so that the block is cut at a constant angle.

**STS-43-H / STS-65-H:** Designs also suitable for concrete kerbstones or limestones.

**STS-43-H / STS-65 / STS-65-H:** Spring-mounted supporting table (one half of the table tiltable, one half rigid) allows clean undercut for precise laying without uneven large gaps.

- High rationalisation effect, as clean snapping of the blocks can often replace time-consuming and expensive cutting with masonry saws.
- Clean cuts with precisely guided, triangular, reversible blade.
- Better view of the cutting line.
- More splitting force with reduced effort.
- Size indicator in centimetre and inches as well as 45-degree angle on both support plates speed up the work enormously.
- Durable surface protection by galvanizing.

Type	Width Cutting Width mm (in)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Order-Number
STS-33	330 (13)	41 (90)	10 – 120 (½ – 4¾)	51200075
STS-33-F	330 (13)	41 (90)	10 – 120 (½ – 4¾)	51200076
STS-43	430 (17)	57 (125)	10 – 120 (½ – 4¾)	51200077
STS-43-H	430 (17)	66 (145)	10 – 300 (½ – 11¾)	51200078
STS-65	650 (25½)	88 (195)	10 – 120 (½ – 4¾)	51200079
STS-65-H	650 (25½)	98 (215)	10 – 400 (½ – 15¾)	51200080

**NEW**



STS-43-EASY



Triangular blade

## STONE SPLITTER STS-EASY

**The new block cutters STS-EASY from Probst. More splitting force with reduced effort – with only one crank handle.**

The required height of the stones can be set easily and quickly using a smoothly-operating handle. Snap blocks without great force: easy! With the perfect combination of lever and eccentric transmission and a triangular knife, huge splitting force with minimal operating force is generated with all mechanical block splitters. Blocks can therefore be cut cleanly without dust, noise or wastewater. No particulate emissions occur, which are harmful to health.

**STS-33-EASY / STS-43-EASY:** Spring-mounted supporting table (both halves of the table tiltable) allows clean undercut for precise laying without uneven large gaps.

**STS-43-H-EASY:** Designs also suitable for concrete kerbstones or limestones up to height 300 mm (11¾ inch). Spring-mounted supporting table (one half of the table tiltable, one half rigid) allows clean undercut for precise laying without uneven large gaps.

**STS-65-EASY:** Spring-mounted supporting table (one half of the table tiltable, one half rigid) allows clean undercut for precise laying without uneven large gaps.

- High rationalisation effect, as clean snapping of the blocks can often replace time-consuming and expensive cutting with masonry saws.
- Clean cuts with precisely guided, triangular, reversible blade.
- Better view of the cutting line.
- Crank on top, connected to spindle via chain and gear drive.
- More splitting force with reduced effort.
- Size indicator in centimetre and inches as well as 45-degree angle on both support plates speed up the work enormously.
- Durable surface protection by galvanizing.

Type	Width Cutting Width mm (in)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Order-Number
<b>STS-33-EASY*</b>	330 (13)	48 (105)	10 – 120 (½ – 4¾)	<b>51200082</b>
<b>STS-43-EASY*</b>	430 (17)	61 (135)	10 – 120 (½ – 4¾)	<b>51200083</b>
<b>STS-43-H-EASY*</b>	430 (17)	73 (160)	10 – 300 (½ – 11¾)	<b>51200085</b>
<b>STS-65-EASY*</b>	650 (25½)	98 (215)	10 – 120 (½ – 4¾)	<b>51200084</b>

\* Expected to be available as of 2nd quarter 2022



AL-33-EASY-V

## Block Cutters AL-EASY

### AL-33-EASY-V/AL-43-EASY-V:

The required height of the stones can be set easily and quickly using a smoothly-operating handle. Improved technology resulting in effort saving of up to 20% when cutting blocks.

Blade has 4 cutting edges.

Tilting, spring-mounted supporting table allows clean undercut for precise laying without uneven large gaps.

Size indicator in centimetre and inches as well as 45-degree angle on both support plates speed up the work enormously!

### AL-43/U-EASY-V:

Designs also suitable for concrete kerbstones or limestones up to height 300 mm (11¾ inch).

- Cut blocks with significantly reduced effort.
- Clean cuts with precisely guided, square, reversible blade.
- Suitable for cutting concrete paving.
- Durable surface protection by galvanizing.

Type	Width Cutting Width mm (in)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Order-Number
AL-33-EASY-V	330 (13)	42 (95)	10 – 120 (½ – 4¾)	51200059
AL-43-EASY-V	430 (17)	60 (130)	10 – 120 (½ – 4¾)	51200061
AL-43/U-EASY-V	430 (17)	73 (160)	10 – 300 (½ – 11¾)	51200064



AL-33/S-V

## Block Cutters AL-33/S-V

### Ideal for cutting slabs and clinker and concrete blocks.

For slightly concave or convex stone elements, e.g. such as clinker and large stone slabs with max. 4 mm height difference, minimum stone length 50 mm (2 inch) or 180 mm (7 inch), depending on the model.

- Cutting teeth adapt optimally to the surface of the block.
- The even pressure on the break line allows a much better cutting result with less force.
- Clinker with a height difference of up to 4 mm (¼ inch) in surface can therefore be snapped with no problem.
- Durable surface protection by galvanizing.

Type	Width Cutting Width mm (in)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Order-Number
AL-33/S-V	330 (13)	53 (115)	20 – 140 (¾ – 5½)	51200044



RSA-25

## Radial Cut Adapter RSA

The RSA converts each standard block cutter into a radial cutter within seconds.

- Now concrete pavers can also be cut with a radius. So connections around manhole covers can be done precisely, quickly and professionally with-out breaking the optics.
- Suitable for outside diameter of manhole covers of approx. 700 – 800 mm (27½ – 31½ inch).
- Easy handling, RSA has only to be positioned between the two plates of the cutter. The RSA does not have to be rigidly fixed in this position.
- Durable surface protection by galvanizing.

4

Type	Width Cutting Width mm (in)	Width mm (in)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Order-Number
RSA-25	250 (9¾)	355 (14)	4.36 (10)	50 – 100 (2 – 4)	41200016



AL-43/SH-21-V

## Hydraulic Block Cutter AL-43/SH-21-V

Snap electrohydraulically at the touch of a button – entirely without dust, noise or wastewater. The environmentally friendly alternative to block sawing.

Fixed-mounted, split triangular reversible carbide blade, e.g. for granite stones, max. 4 mm (¼ inch) height difference, minimum stone length 180 mm (7 inch).

- Integrated battery with charger.
- Equipped with a maintenance-free battery and a fully automatic charger in the housing. 230 V.
- Durable surface protection by galvanizing.

Type	Width Cutting Width mm (in)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Force Splitting Force kg(daN)/lbs	Order-Number
AL-43/SH-21-V	180 – 420 (7 – 16½)	150 (330)	20 – 200 (¾ – 7¾)	21.000 (46.200)	51200052





## Vacuum Technology

### Benefits:

Compared to mechanical grabs, vacuum technology provides substantial and numerous benefits in handling and installation of building materials.

1. Installation without joints.
2. No edge cracks and chipping.
3. Higher laying quality; easy removal and readjustment, such as a slab was placed too deep into the laying course.

### Porosity:

Failsafe function of the vacuum devices is decisively influenced and determined by the porosity of the elements. It is easy to imagine: if the incoming air from micro pores exceeds the capacity a vacuum pump or blower is able to exhaust, proper negative pressure between suction plate and construction material cannot be built up.

These kind of products are not suitable to be lifted with vacuum devices. Unlike the surface characteristics and finish, porosity is not apparent or visible to the observer.



Appropriate Device	Vacuum Hand Laying Systems							Vacuum Lifting Devices				Vacuum Hose Lifters			
	VH	FXAH	VPH	VPE	MJ	AIR-LIFT-ALX	SPEEDY VS *	SM	SH	QUICK-JET QJ	POWER JET PJ	MULTIMOBIL MM mit VGE	JUMBO-MOBIL JM	JUMBO-BV VARIO	TRANS-MOBIL TM
Vacuum Generation via Vacuum Pump	●	●	●	●	●			●	●						
Vacuum Generation via Vacuum Blower						●	●			●	●	●	●	●	●
Specification Material/Product:															
<b>Very dense/not porous:</b> - granite - marble - „WET CAST“ (molded wet concrete)															
<b>Dense/up to slightly porous:</b> - miscellaneous natural stones - specific sandstones - limestone - single layer concrete stones, highly compressed, manufactured with a high content of water/cement															
<b>Moderate porous:</b> - smaller concrete slabs w/facing produced on block making machines															
<b>Highly porous:</b> - larger concrete slabs w/facing produced on block making machines - aerated concrete blocks - exposed aggregate surfacesaking machines															

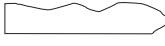
\* Vacuum hand laying device can also be used on attachments via lifting eye.


Marginal conditions, test set-up might be necessary prior to final decision making.

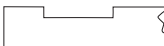


### Surface:

What really matters in practical application is not that much the surface finish but rather the porosity of the material.

1. Plane and smooth surfaces are optimal. 
2. Slight, not sharp-edged unevenness up to 5 mm is usually not a problem. 

3. Products with severe, not sharp-edged unevenness of approx. 8 to 10 mm (1/4 to 1/2 in) can be handled with specific vacuum devices and corresponding sealing systems. 

4. Products with deep unevenness, such as exposed aggregate surfaces are easy to handle with vacuum devices operated by a vacuum blower. 

5. Sharp-edged products, with uneven and graded top up to approx. 3 mm (1/4 in) are, if at all, solely be handled with vacuum devices equipped with a vacuum blower. 
6. Other surface characteristics on request.   


In case of different load capacity specifications (lifting hose, suction plate, vacuum generator e.g. UNIMOBIL), the value of the vacuum component with the lowest load capacity always applies.



VH-1/25



VH-1/25 with VH-2-HG

## VACUUM-HANDY VH-1/25

max. 50 kg/110 lbs

### One-man operation for lightweight slabs and short transportation distance

To install non porous slabs. The vacuum suction force is produced by only pressing the device down onto the surface of the slab. Afterwards the slab can be lifted by hand. To release the slab, just a finger tip is necessary to open a simple valve.

Attention: Can only be used on non porous materials nearby the ground level.

- Accurate and quick installation with no gap in-between slabs. Ergonomically good working position for installation.
- Also previously layed slabs can be picked up again.
- Robust seal ring, can be exchanged within seconds without glueing.
- By purchasing of an additional two-man handle VH-2-HG the VH-1/25 can be used for two-men operation.
- The working load limit is then 50 kg (110 lbs).
- Durable surface protection by galvanizing.

Type	Diameter mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
VH-1/25	280 (11)	5 (10)	25/ 50 (55/ 110)	52600009

### Accessories:

Type	Description	Dead Weight kg (lbs)	Order-Number
VH-2-HG	Two-man handle for VH-1/25	3 (7)	42600155

### Spare Parts:

Type	Order-Number
Replacement seal	42730008

**NEW**

## FLIEGUAN-BATTERY-HANDY FXAH-120-GRABO-GREENLINE

max. 120 kg/265 lbs



FXAH-120-GRABO-GREENLINE



FXAH-120-GRABO-GREENLINE with FXAH-120-SOLO-Set



FXAH-120-GRABO-GREENLINE with FXAH-120-DUO-Set, bottom right: additionally with wheel set VPH-RS

Designed for landscape contractors and tilers, for quick and ergonomic lifting, moving and laying of absorbent concrete slabs, natural stones, tiles and other absorbent building materials.

BATTERY-HANDY is placed on a slab or tile, switched on, and then sucks onto the surface without any downward pressure. The vacuum is released again by pressing another switch.

- Considerably easier laying, as there is no need to grip on the side, especially for the last slab.
- Less risk of edge damage, as laying is more precise and with a better view.
- Light and handy.
- Fast suction due to high air volume flow.
- Ergonomic arrangement of the operating switches.
- Powered by a rechargeable 14.8 V lithium-ion battery (exchangeable battery concept).
- Battery life: approx. 1.5 to 2 h in continuous operation, in normal operation up to one day.
- Increased safety through battery status LED.

### Scope of delivery:

**FXAH-120-GRABO-GREENLINE:** Vacuum hand laying device, Charger (multi-range voltage 110 V to 240 V) 1 x lithium-ion battery, spare rubber seal and replacement filter. Supplied in lightweight soft case.

**FXAH-120-GRABO-PRO-LIFTER-GREENLINE:** Vacuum hand laying device, Charger (multi-range voltage 110 V to 240 V) 1 x lithium-ion battery, carrying strap, spare rubber seal and replacement filter. Supplied in a high-quality, waterproof plastic case.

**VPH-RS:** Lay slabs even more easily and conveniently on large wheels – quickly and efficiently. Easy attachment to VPH, FXAH-120-SOLO-Set and FXAH-120-DUO-Set.

**FXAH-120-GRABO-PRO-LIFTER-GREENLINE:** With integrated pressure switch. As soon as the required pressure is reached, the pump switches off. When the vacuum drops, the pump switches on again. With digital manometer for displaying negative pressure or load capacity.

**FXAH-120-SOLO-Set:** Hand carrying handle with adapter for one person. For ergonomic moving and laying of building materials. Release operation via foot pedal.

**FXAH-120-DUO-Set:** Hand carrying handle with adapter for two persons. For ergonomic moving and laying of building materials. Release operation via foot pedal.



Type	Dimensions L x W mm (in)	Battery Capacity Ah	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>FXAH-120-GRABO-GREENLINE</b>	300 x 180 (11¾ x 7)	2.6	1.5 (3.3)	120 (265)	<b>58500016</b>
<b>FXAH-120-GRABO-PRO-LIFTER-GREENLINE</b>	300 x 180 (11¾ x 7)	2.6	1.6 (3.5)	120 (265)	<b>58500014</b>

### Accessories:

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>FXAH-120-SOLO-Set</b>	Hand carry handle with adapter for one person (also suitable for NEMO GRABO)	4.4 (10)	120 (265)	<b>48500055</b>
<b>FXAH-120-DUO-Set</b>	Hand carry handle with adapter for two persons (also suitable for NEMO GRABO)	10.1 (20)	120 (265)	<b>48500054</b>
<b>ALX-120-HG</b>	Additional handle for the ALX-120-SOLO-Set and FXAH-120-SOLO-Set carry handles	0.4 (1)	120 (265)	<b>42600206</b>
<b>VPH-RS</b>	Wheel Set	7.6 (15)	150 (330)	<b>42710072</b>

### Spare Parts:

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>FXAH-120-SOLO</b>	Hand carry handle without adapter for one person	1.6 (4)	120 (265)	<b>48500045</b>
<b>FXAH-120-DUO</b>	Hand carry handle without adapter for two persons	7.3 (15)	120 (265)	<b>48500044</b>
<b>FXAH-120-Adapter</b>	Adapter for connecting FXAH-120 with carry handle	2.6 (6)	120 (265)	<b>48500047</b>
<b>FXAH-120-Battery-14,8V/ 2,2Ah</b>	Battery for FXAH-120			<b>24200144</b>
<b>FXAH-120-LG-110-240V/ 14,8V</b>	Battery charger for FXAH-120	0.1 (0)		<b>24200159</b>
<b>FXAH-120-ED</b>	Replacement seal for FXAH-120			<b>48500037</b>
<b>FXAH-120-Filter</b>	for FXAH-120 (2 pieces)			<b>48500038</b>
<b>FXAH-120 retrofit pedal</b>	Retrofit pedal for mounting on FXAH-120-SOLO/DUO set (order no. 48500043/48500039) when used with the GRABO-PRO-LIFTER-GREENLINE			<b>33508117</b>





VPH-150-GREENLINE



VPH-RS

## VACUUM-POWER-HANDY VPH-150-GREENLINE

max. 150 kg/330 lbs

**Flexible and powerful hand operated laying device for dense products, such as granite or high quality concrete elements.**

Special seal, consisting of 2 components for optimised sealing. Even when the suction plate is sitting on sharp edges for a long time, no permanent marks are left in the seal. Therefore no "foldable rests" are necessary to save guard the seal. Wheel Set VPH-RS can be retrofitted to any VPH device at any time. Thus dense slabs can be installed by just one person.

- Powered by rechargeable battery 12 V. Special energy saving automatic allows a full day of laying operation without the need of recharging. Battery charger not included.
- Handle for 2 men operation, handles are height and width adjustable to accommodate with different laying tasks.
- Vacuum pump unit with manometer and battery charging indicator.
- The seal can be exchanged without glue and any tool within 1 minute.
- Fitted as standard with chain compartment and load securing chain as well as lifting eye for hoist operation.
- Durable surface protection by galvanizing.

### Scope of delivery:

**VPH-150-GREENLINE:** Including suction plate with 150 kg (330 lbs) load capacity.



Type	Dimensions oval, L x B mm (in)	Battery Capacity Ah	Type of Drive electric/Battery kW	Working Voltage V	Dead Weight kg (lbs)	Working Load Limit/ WLL -500 mbar kg (lbs)	Order-Number
<b>VPH-150- GREENLINE</b>	440 x 250 (17¼ x 9¾)	6.5	0.02	12	16.5 (35)	150 (330)	<b>52710008</b>

## Accessories:

**VPH-RS:** Lay slabs even more easily and conveniently on large wheels – quickly and efficiently. Easy attachment to VPH, FXAH-120-SOLO-Set and FXAH-120-DUO-Set.

**VPH-RS-AS:** Height-adjustable stop with which the tile can be placed tilted forward at different angles.

Type	Description	Dimensions L x W mm (in)	Dimensions oval, L x B mm (in)	Battery Capacity Ah	Working Voltage V	Electric Con- nection/AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Working Load Limit/WLL -500 mbar kg (lbs)	Order-Number
<b>VPH-RS</b>	Wheel Set						7.6 (15)	150 (330)		<b>42710072</b>
<b>VPH-RS-AS</b>	Support for wheel set VPH-RS						1 (2)			<b>42710154</b>
<b>VPH-SPS-HP-100-26/21</b>	Suction Plate	260 x 210 (10¼ x 8¼)					3 (7)	100 (220)		<b>42700109</b>
<b>VPH-SPS-HP-150-44/25</b>	Suction Plate		440 x 250 (17¼ x 9¾)				6 (15)	150 (330)		<b>42700050</b>
<b>Battery-12V/6,5 Ah</b>	Spare storage battery for VPH			6.5	12		2.3 (5)			<b>24200007</b>
<b>VPH-LG-220V/12V</b>	Battery charger for VPH					230	0.2 (0.4)			<b>24200004</b>

## Spare Parts:

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>ED-SPS-HP-100</b>	Replacement seal for VPH-SPS-HP-100-26/21	0.3 (0.7)	<b>42730004</b>
<b>ED-SPS-HP-150</b>	Replacement seal for VPH-SPS-HP-150-44/25	0.36 (0.8)	<b>42730012</b>



ALX-120



ALX-120 with ALX-120-DUO-Set



ALX-120 with ALX-120-HG

## AIRLIFT ALX-120

max. 120 kg/265 lbs

**NEW**

### Vacuum Hand Laying Device

**Light, ergonomic, strong. The mobile vacuum lifter for porous concrete slabs, natural stones or tiles.**

Lay slabs quickly and precisely with the flexible AIRLIFT ALX-120.

- Lightweight only 6 kg, the backpack vacuum blower increases flexibility during installation work.
- For porous concrete slabs and natural stones, as well as for tiles.
- Grab slabs from the top: this protects the edges and allows precise laying.
- Maximum load capacity 120 kg (265 lbs).
- Can be used on any 230V socket.
- ALX-120-DUO-Set and ALX-120-SOLO-Set can also be used with additional adapter on FXAH-120.

**ALX-120-DUO-Set:** With the carrying handle ALX-120-DUO-Set you work in an upright position with two people. The load is put down via the control switch on the cable.

Type	Description	Dimensions L x W mm (in)	Electric Connection/AC (50 Hz) Voltage V	Weight Total Weight kg (lbs)	Working Load Limit/ WLL kg (lbs)	Order-Number
ALX-120	Vacuum hand laying device consisting of backpack vacuum blower, ALX-120-Solo-Set hand carrying handle and suction plate ALX-ESP-50 (working load limit 50 kg/110 lbs). 110 V on request	255 x 255 (10 x 10)	230	13 (30)	120 (265)	52600018

## Accessories:

Type	Description	Dimensions L x W mm (in)	Weight Total Weight kg (lbs)	Dead Weight kg (lbs)	Working Load Limit/ WLL kg (lbs)	Order-Number
<b>ALX-120-DUO-Set</b>	Carrying handle for two persons		8.5 (20)		120 (265)	<b>42600209</b>
<b>ALX-120-HG</b>	Additional handle for the ALX-120-SOLO-Set and FXAH-120-SOLO-Set carry handles		0.4 (0.9)		120 (265)	<b>42600206</b>
<b>ALX-120-H</b>	Mounting bracket for backpack Vacuum blower on ALX-120-DUO set		0.3 (0.7)			<b>42600207</b>
<b>ALX-ESP-12-80/280</b>	Suction plate	80 x 280 (3¼ x 11)		1.3 (2.9)	12 (25)	<b>42600194</b>
<b>ALX-ESP-18-165/165</b>	Suction plate	165 x 165 (6½ x 6½)		1.5 (3.3)	18 (40)	<b>42600193</b>
<b>ALX-ESP-25-102/380</b>	Suction plate	102 x 380 (4 x 15)		2 (4)	25 (55)	<b>42600195</b>
<b>ALX-ESP-35-153/318</b>	Suction plate	153 x 318 (6 x 12½)		2.2 (5)	35 (75)	<b>42600196</b>
<b>ALX-ESP-50-255/255</b>	Suction plate	255 x 255 (10 x 10)		2.5 (6)	50 (110)	<b>42600191</b>
<b>ALX-ESP-120-58/27</b>	Suction plate	580 x 270 (22¾ x 10¾)		5.8 (15)	120 (265)	<b>42600210</b>

## Spare Parts:

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>ALX-120-SOLO-Set</b>	Carrying handle for one person	3 (7)	120 (265)	<b>42600208</b>

max. 200 kg/440 lbs

## SPEEDY VS-140/200 Vacuum Hand Laying Device

The powerful single phase powered vacuum turbine also allows the quick and safe handling of very porous material as well as material with exposed aggregate surface. With an integrated suction plate for up to 50 kg (110 lbs) and quick change function. With this new hand laying tool all kinds of slabs can be laid quickly and above all, ergonomically.

Using the quick-change function, all new standard suction plates can be attached in seconds without tools.

Plug type F, 230 V.

- Can, when combined with the corresponding suction plate and lifting eye VS-EH safely lift and lay elements weighing up to 200 kg (441 lbs).
- Existing VS-SPS suction plates can be used via the optionally available VS-GH-SPS retrofit kit.
- Handles can be rotated 90° by repositioning 2 bolts. This can be of an advantage when switching from crosswise to lengthwise laying of slabs or when the slabs are laid touching a wall.
- Now with unlockable actuating lever for vacuum release. This double safety device secures the paving material against accidental release.
- The working load limit with handles is 140 kg (309 lbs).
- Quick positive suction action (0.5 sec).
- Handles individually height adjustable. Important for users of different heights and for laying steps.
- Two short handles (in lower position) make easier the taking-off from high stacks of slabs.
- The handles can be folded down for easy transportation.
- Light weight design.
- Durable surface protection by galvanizing.



VS-140/200



VS-140/200



VS-140/200-XL

### VS-140/200-XL:

- With long handles for safe installation of slabs.
- With lifting eye and safety chain for risk-free lifting and handling.



Type	Description	Dimensions L x W mm (in)	Type of Drive electric/AC (60 Hz) kW	Type of Drive electric/AC (50 Hz) kW	Electric Connection/ AC (60 Hz) Voltage/AC (60 Hz) V	Electric Connection/ AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Working Load Limit/ WLL -200 mbar kg (lbs)	Order-Number
<b>VS-140/200</b>	incl. suction plate 50 kg (110 lbs)	300 x 250 (11¾ x 9¾)		1.5		230	24 (55)	200 (440)	<b>52700015</b>
<b>VS-140/200-XL</b>	incl. suction plate 50 kg (110 lbs) with long handle and lifting eye	300 x 250 (11¾ x 9¾)		1.5		230	30 (65)	200 (440)	<b>52700016</b>
<b>VS-140/200-110</b>	incl. suction plate 50 kg (110 lbs)	300 x 250 (11¾ x 9¾)	1.5		110		24 (55)	200 (440)	<b>52700019</b>
<b>VS-140/200-XL-110</b>	incl. suction plate 50 kg (110 lbs) with long handle and lifting eye	300 x 250 (11¾ x 9¾)	1.5		110		30 (65)	200 (440)	<b>52700020</b>

### Accessories:

Type	Description	Width mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>VS-EH</b>	Lifting eye with safety chain for VS-140 and VS-140/200		3.54 (8)	200 (440)	<b>42710143</b>
<b>VS-140-XL-HG</b>	Pair of long handles for VS-140/200 for slabs up to 1,2 m width	1,200 (47¼)	9 (20)	140 (310)	<b>42710089</b>



VS-PR

## SPEEDY POWER-RACK VS-PR

Holder for practical storing of the EU 22i Honda generator when operating the SPEEDY on lifting equipment (e.g. a digger).

- VS-PR is simply hung on the carrying device with adjusted generator (not included in the scope of delivery).
- The VS-EH (not included in the scope of delivery) lifting eye of the SPEEDY is then hung on the eye hook of the VS-PR.
- In the case of a carrying device with a large lifting height, the eye hook may be connected to the VS-EH lifting eye with the 2 m long loop supplied. Thus, first the SPEEDY then the VS-PR can be switched off.
- Incl. 3 m/118 inch extension cable + Velcro strap.
- Durable surface protection by galvanizing.

Type	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>VS-PR</b>	10 (20)	200 (440)	<b>42710166</b>



## Suction Plates VS-SPS for SPEEDY VS-140/200

■ Depending on type: aluminium version or galvanised with durable surface protection.

VS-GH-WSP-150-90/12-15,5-101°

Type	Description	Dimensions oval, L x B mm (in)	Dimensions L x W x H mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL -200 mbar kg (lbs)	Angle ° Degree	Order-Number
<b>VS-GH-SPS-80-40/30</b>	Suction Plate	400 x 300 (15¾ x 11¾)		2 (4)	80 (175)		<b>42710129</b>
<b>VS-GH-SPS-100-50/30</b>	Suction Plate	500 x 300 (19¾ x 11¾)		2.5 (6)	100 (220)		<b>42710130</b>
<b>VS-GH-SPS-140-70/30</b>	Suction Plate	700 x 300 (27½ x 11¾)		3 (7)	140 (310)		<b>42710131</b>
<b>VS-GH-SPS-200-85/34</b>	Suction Plate	850 x 340 (33½ x 13½)		11.5 (25)	200 (440)		<b>42710132</b>
<b>VS-GH-WSP-85-90/8-12-90°</b>	Angeled Suction Plate		900 x 80 x 120 (35½ x 3¼ x 4¾)		85 (185)	90	<b>42720345</b>
<b>VS-GH-WSP-150-90/12-15,5-101°</b>	Angeled Suction Plate		900 x 120 x 155 (35½ x 4¾ x 6)	6.5 (15)	150 (330)	101	<b>42720347</b>
<b>VS-GH-WSP-150-70/15,5-17-90°</b>	Angeled Suction Plate		700 x 155 x 170 (27½ x 6 x 6¾)	7 (15)	150 (330)	90	<b>42720360</b>

### Accessories:

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>Lamellar plugs</b>	1 item, for plugging drilled holes in the suction plates		<b>21070141</b>
<b>VS-GH-SPS</b>	Retro fit kit counter holder for existing suction plate consisting of: 2 x counter holder + screws, nuts.		<b>42710127</b>
<b>VS-AP</b>	Adapter plate for special SPEEDY suction plates	4 (9)	<b>42710163</b>

### Spare Parts:

**VS-ED-SPS:** High wear-resistant replacement seal: Easy to attach without gluing. Incl. holding fixture.

Type	Description	Order-Number
<b>VS-ED-SPS-50</b>	Replacement seal for VS-GH-SPS-50	<b>42710032</b>
<b>VS-ED-SPS-80</b>	Replacement seal for VS-GH-SPS-80	<b>42710029</b>
<b>VS-ED-SPS-100</b>	Replacement seal for VS-GH-SPS-100	<b>42710031</b>
<b>VS-ED-SPS-140</b>	Replacement seal for VS-GH-SPS-140	<b>42710030</b>
<b>VS-ED-SPS-200</b>	Replacement seal for VS-GH-SPS-200	<b>42710140</b>
<b>VS-ED</b>	Rubber Seal self-adhesive, for integrated suction plate of the basic unit	<b>42710165</b>

# UNIMOBIL UM Laying Dolly

5



UM-VS-S/SE – complete version

The UNIMOBIL UM is an installation dolly that can easily handle concrete and natural stone units up to 150 kg (330 lbs).

- Efficiency is noticeably increased, as it only requires one person to carry out the installation work.
- Special feature: The boom is lifted through a gas spring with integrated brake and is controlled by a lever on the operating handle. This way stone can be picked up from a pallet of approximately 900 mm (35½ inch) height. By pressing the lever again the load is lowered gently into place. Pressing the lever once more lifts the boom up to pick up the next unit.

Basic version, standard equipment:

- Big rubber wheels with a diameter of 400 mm (15¾ inch), makes manoeuvring the UM easy.
- Track width of rubber wheels adjustable (outer dimension 610 to 905 mm / 24 to 35½ inch).
- Supported by a steering roller with a locking brake.
- Boom and handles are telescopic to adjust well to different weights and measures of the slabs.
- Gas spring with integrated brake with a control handle.

Please note: basic version has to be equipped with "Load Pick-up" module, in order to be used for laying slabs!



UM-SM – complete version

## UNIMOBIL UM-SM

max. 150 kg/330 lbs

### Laying Dolly – Complete Version

Equipped with battery driven STONEMAGNET SM-600-GREENLINE. The UNIMOBIL UM-SM is the perfect vacuum laying system for slightly porous slabs and stone.

Suction plate not included in scope of delivery.

If you are already using a SM please ask us for a quotation to upgrade it to a UM-SM.

Complete version consisting of: UM-SM + SM-600-GREENLINE or SM-600-GREENLINE-POWER.

- The most gentle and the closest positioning of slabs as possible. Re-pick up possible. Also suitable for slightly porous stones.
- It is equipped with handles on the suction plate and a 90° turnable suspension for the perfect positioning of the slabs.
- With handles for precise guidance of the suction plate for positioning the material to be placed.
- Durable surface protection by galvanizing.
- Quick adjustment of the arm in 5 different positions.

Type	Description	Working Voltage V	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>UM-SM</b>	Basic version for installing the STONEMAGNET SM		42 (95)	150 (330)	<b>42740011</b>
<b>SM-600-GREENLINE</b>	Basic device, without suction plate	12	34 (75)	600 (1,320)	<b>52720006</b>
<b>SM-600-GREENLINE-POWER</b>	Basic device, without suction plate	12	35 (75)	600 (1,320)	<b>52720007</b>

### Accessories:

Type	Description	Dimensions L x W mm (in)	Battery Capacity Ah	Working Voltage V	Dead Weight kg (lbs)	Working Load Limit/WLL - 500 mbar kg (lbs)	Order-Number
<b>Battery 12V/26Ah</b>	Spare storage		26	12	9.1 (20)		<b>24200008</b>
<b>SM-SPS-90-30/ 20</b>	Suction plate	300 x 200 (11¾ x 7¾)			5 (10)	90 (200)	<b>42720009</b>
<b>Battery charger LG-220 V/12V</b>	Battery charging device w/overload protection and charging current limiting. Housing is water and dust-proof						<b>24200152</b>







UM-VS-S/SE - complete version

## UNIMOBIL UM-VS

### Laying Dolly – Complete Version

max. 150 kg/330 lbs

Basic version (without suction plate) equipped with SPEEDY VS-140/200 electrical operation 230 V or 110 V.

The UNIMOBIL UM-VS-140 is the perfect vacuum laying system for porous slabs and stone.

If you are already using a Speedy VS-140/200 please ask us for a quotation to upgrade it to a UM-VS! Available with integrated generator, unlimited operating range, more flexible!

Complete version consisting of: UM-VS-140/200 + SPEEDY VS-140/200 (230V) + SE-H Honda generator and pendular suspension for generator (see accessories).

- Advantage: Gentle and close positioning of slabs possible. Re-pick up possible. Also suitable for very porous stones.
- It is equipped with a 90° turnable suspension for the perfect positioning of the slabs.
- Including additional handle on the suction plate for better positioning of the laying material.
- Releasing of the suction force very simple by pulling a lever.
- Quick adjustment of the arm in 5 different positions.
- Durable surface protection by galvanizing.

Type	Description	Dimensions L x W mm (in)	Type of Drive electric/ AC (50 Hz) kW	Type of Drive electric/ AC (60 Hz) kW	Electric Con- nection/AC (60 Hz) Voltage/ AC (60 Hz) V	Electric Con- nection/AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Working Load Limit/WLL -200 mbar kg (lbs)	Order-Number
UM-VS-140/200	Basic version for installing the SPEEDY VS-140/200						64 (140)	150 (330)		42740017
VS-140/200	incl. suction plate 50 kg (110 lbs)	300 x 250 (11¾ x 9¾)	1.5			230	24 (55)		200 (440)	52700015
VS-140/200-110	incl. suction plate 50 kg (110 lbs)	300 x 250 (11¾ x 9¾)		1.5	110		24 (55)		200 (440)	52700019

### Accessories:

Type	Description	Dimensions L x W mm (in)	Dimensions oval, L x B mm (in)	Type of Drive Petrol Engine kW	Electric Connection/AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Working Load Limit/WLL -200 mbar kg (lbs)	Order-Number
SE-H Generator Honda EU 22 i	230 V 50 Hz petrol engine			2.25	230	22.5 (50)		52500243
Swinging Suspension UM	for Honda generator					1.1 (2)		42720238
VS-SPS-50-30/ 25	Suction Plate	300 x 250 (11¾ x 9¾)				1.44 (3)	50 (110)	42710013
VS-GH-SPS-80- 40/30	Suction Plate		400 x 300 (15¾ x 11¾)			2 (4)	80 (175)	42710129
VS-GH-SPS-100- 50/30	Suction Plate		500 x 300 (19¾ x 11¾)			2.5 (6)	100 (220)	42710130
VS-GH-SPS-140- 70/30	Suction Plate		700 x 300 (27½ x 11¾)			3 (7)	140 (310)	42710131





SM-600-GREENLINE



SM-600-GREENLINE-POWER



SM-600-GREENLINE-POWER

## STONEMAGNET SM-600- GREENLINE Vacuum Lifting Device

max. 600 kg/1,320 lbs

**Handy, powerful and cordless vacuum lifting device for laying of dense stone slabs, concrete elements, pipes and similar. Can be used with all kinds of lifting equipment.**

Specially designed and equipped for heavy duty work on the construction site.

For special purposes, there are different suction plates available, which can be attached to the SM easily.

Can be used with any hoist.

Special features:

The SM-600 is equipped with 2 vacuum pumps as standard. When handling dense products, only one pump is used. On slightly porous material, or when quick cycle time is required, the second pump can be switched on by the switch.

- Robust and compact main body, with integrated suspension for crane hook and quick change device for the suction plate.
- With integral chain-box and load-securing chain.
- Powered by rechargeable, exchangeable 12 V battery. Power saving control system makes battery lasting for one whole working day.
- Battery can be exchanged within seconds. Battery charge indicator. Battery charger not included.
- Integral charger socket for charging.
- Durable surface protection by galvanizing.

### Scope of delivery:

**SM-600-GREENLINE:** Security features: Flashing light to warn of insufficient vacuum, automatic control system to start the vacuum pump after loss of pressure, manometer, high volume vacuum storage tank.

**SM-600-GREENLINE-POWER:** Additional features: Twice the pumping capacity compared with the SM-600, providing greater reserves for slightly porous materials. Built-in operating hours counter. Suction and release operation via comfortable button-activation. Optional retro-fitting of remote control for suction and release operations, enabling single-operator activation from the carrying device.

**SM-600-GREENLINE-POWER-FFS:** As SM-600-GREENLINE-POWER, but with additional remote control SM-FFS (included in delivery) for suction and release.



Type	Description	Working Voltage V	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>SM-600-GREENLINE</b>	Basic device, without suction plate	12	34 (75)	600 (1,320)	<b>52720006</b>
<b>SM-600-GREENLINE-POWER</b>	Basic device, with stronger pump	12	35 (75)	600 (1,320)	<b>52720007</b>
<b>SM-600-GREENLINE-POWER-FFS</b>	Basic device, with stronger pump and remote control	12	35 (75)	600 (1,320)	<b>52720008</b>

## Accessories:

Type	Description	Battery Capacity Ah	Working Voltage V	Dead Weight kg (lbs)	Order-Number
<b>Battery 12V/26Ah</b>	Spare storage	26	12	9.1 (20)	<b>24200008</b>
<b>LG-220V/12V</b>	Battery charging device w/overload protection and charging current limiting. Housing is water and dust-proof				<b>24200152</b>
<b>SM-BB</b>	Operating handle also for retrofitting			1.6 (4)	<b>42720063</b>
<b>SM-FFS</b>	Remote Control for gripping and releasing for SM-600-GREENLINE-POWER. (Retro-fitting available only in the Probst works)			0.43 (1)	<b>42720346</b>

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SM-SPS-200-58/28

## Suction Plates SM-SPS for STONEMAGNET

Other suction plates on request.

- Durable surface protection by galvanizing

Type	Description	Dimensions L x W mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL -500 mbar kg (lbs)	Order-Number
<b>SM-SPS-90-30/20</b>	Suction plate	300 x 200 (11¾ x 7¾)	5 (10)	90 (200)	<b>42720009</b>
<b>SM-SPS-200-58/28</b>	Suction plate	580 x 280 (22¾ x 11)	8.2 (20)	200 (440)	<b>42720001</b>
<b>SM-SPS-400-75/27</b>	Suction plate	750 x 270 (29½ x 10¾)	10 (20)	400 (880)	<b>42720002</b>
<b>SM-SPS-600-95/34</b>	Suction plate	950 x 340 (37½ x 13½)	15 (35)	600 (1,320)	<b>42720349</b>
<b>SM-SPS-HP-100-90/9</b>	Suction plate	900 x 90 (35½ x 3½)	7 (15)	100 (220)	<b>42720115</b>
<b>SM-SPS-160-90/12</b>	Suction plate	900 x 120 (35½ x 4¾)	7 (15)	160 (355)	<b>42720047</b>
<b>SM-SPS-150-41/22</b>	Suction plate	410 x 220 (16¼ x 8¾)	5 (10)	150 (330)	<b>42720018</b>
<b>SM-SPS-150-80/14</b>	Suction plate	800 x 140 (31½ x 5½)	7 (15)	150 (330)	<b>42720013</b>
<b>SM-SPS-120-80/12</b>	Suction plate	800 x 120 (31½ x 4¾)	6 (15)	120 (265)	<b>42720043</b>

## Spare Parts:

**ED-SPS:** Highly wear-resistant replacement seal: Easy to attach without glueing.

Type	Description	Order-Number
<b>ED-SPS-90</b>	Replacement seal for SM-SPS-90	<b>42500023</b>
<b>ED-SPS-200</b>	Replacement seal for SM-SPS-200	<b>42720004</b>
<b>ED-SPS-400</b>	Replacement seal for SM-SPS-400	<b>42720005</b>
<b>ED-SPS-600</b>	Replacement seal for SM-SPS-600	<b>42500027</b>



QJ-600-E with SE-H



QJ-600-E with SE-H

## QUICKJET QJ-600-E Vacuum Lifting Device

max. 600 kg/1,320 lbs

**Lifts even very porous materials. For efficient and safe handling even of very porous products.**

The vacuum power is generated by a strong, electrically powered vacuum turbine. Besides highly porous slabs, also products with exposed aggregates and other rough surfaces can be handled safely and quickly.

The compact QUICKJET QJ-600-E can be attached to any carrier by means of load hook, chains, slings etc. The vacuum lifting device comes with a fixed suction plate QJ-ESP-120-38/38 QJ – max. working load limit 120 kg (265 lbs) – and a electrical power cable with on-off switch at the plug connector.

The electric generator to operate the vacuum turbine is not included, however it is available as an optional accessory. This generator can be placed in frame of the QJ.

To ensure proper function of the electric turbine when powering the QJ with a generator), please be aware of the following facts:

The minimum continuous power production has to be 1.600 W. Exclusively generators with modern Inverter Technology, such as Honda EU 22 i, should be used.

Plug type F, 230 V.

- **New:** Increased insertion height for power generators.
- **New:** Release process now via Bowden cable with 2-fold actuation.
- Quick change fasteners allow for speedy attachment of different suction plates to the fixed plate QJ-ESP-120-38/38 within seconds. The different suction plates available are cover-ing versatile kinds of application, various slab sizes and weights.
- A foldable handle ensures safe and accurate positioning of the slabs to be laid.
- The integrated chain guard assures additional safe operation.
- The QJ can be operated without generator at any time. In this case the QJ has to be connected to the electrical network by using a extension cable.
- Compact design.
- Durable surface protection by galvanizing.

Type	Description	Type of Drive electric/AC (50 Hz) kW	Type of Drive electric/AC (60 Hz) kW	Electric Connection/AC (50 Hz) Voltage V	Electric Connection/AC (60 Hz) Voltage/AC (60 Hz) V	Dead Weight kg (lbs)	Working Load Limit/WLL -200 mbar kg (lbs)	Order-Number
<b>QJ-600-E</b>	incl. Suction plate 120 kg (without generator)	1.5		230		41 (90)	600 (1,320)	<b>52400045</b>
<b>QJ-600-E-110</b>	incl. Suction plate 120 kg (without generator)		1.5		110	41 (90)	600 (1,320)	<b>52400049</b>

## Accessories:

Type	Description	Dimensions L x W mm (in)	Type of Drive Petrol Engine kW	Electric Connection/AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Working Load Limit/WLL -200 mbar kg (lbs)	Order-Number
<b>QJ-ESP-320-59/59</b>	Suction Plate	590 x 590 (23¼ x 23¼)			13 (30)	320 (710)	<b>42420102</b>
<b>QJ-ESP-400-98/48</b>	Suction Plate	980 x 480 (38½ x 19)			19 (40)	400 (880)	<b>42420104</b>
<b>QJ-ESP-600-78,5/78,5</b>	Suction Plate	785 x 785 (31 x 31)			22 (50)	600 (1,320)	<b>42420106</b>
<b>QJ-ESP-350-151/29</b>	Suction Plate	1,510 x 290 (59½ x 11½)			18 (40)	350 (770)	<b>42420108</b>
<b>QJ-ESP-170-90/25</b>	Suction Plate	900 x 250 (35½ x 9¾)			13 (30)	170 (375)	<b>42420110</b>
<b>QJ-ESP-250-90/35</b>	Suction Plate	900 x 350 (35½ x 13¾)			14 (30)	250 (550)	<b>42420112</b>
<b>QJ-ESP-500-140/40</b>	Suction Plate	1,400 x 400 (55 x 15¾)			21 (45)	500 (1,100)	<b>42420114</b>
<b>SE-H Generator Honda EU 22 i</b>	230 V 50 Hz petrol engine		2.25	230	22.5 (50)		<b>52500243</b>
<b>Adapter QJ</b>	For Rotator				1.5 (3)		<b>40110319</b>
<b>Adapter QJ for SPEEDY suction plates</b>	Adapter for mounting SPEEDY suction plates to QUICKJET QJ				6.1 (15)		<b>42420118</b>



QJ-RS

## Wheelset QJ-RS for QUICKJET QJ-600-E

With its wheelset QJ-RS the QUICKJET becomes the perfect, mobile vacuum generator for economic and accurate installation of natural stones, concrete slabs, large-size pavers etc.

Furthermore the wheelset protects the suction plate during storage and transport.

The wheelset consists of a base plate with integrated wheels. The QUICKJET QJ and suction plate are just fixed by means of quick release fasteners.

MICROJUMBO-JET MJ-J can be connected easily via the vacuum connection of the carrier. By lifting-up the QUICKJET handle the unit can be moved like a wheelbarrow.

Even highly porous material can be handled safely & and quickly.

- Durable surface protection by galvanizing.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>QJ-RS</b>	Wheelset for QUICKJET	18 (40)	<b>42420083</b>



SH-1000-MINI-B



SH-1000-MINI-E

## Vacuum Lifting Device SH-1000-MINI

max. 1,000 kg/2,210 lbs

For efficient and safe handling and laying of heavy loads up to 1,000 kg (2,210 lbs), such as granite slabs, dense concrete elements, marble slabs, kerb stones, steps etc.

Can be hooked on to any carrier or laying machine VM by means of load hook, chain, hoisting cable or similar.

**SH-1000-MINI-H** – with integrated hydraulic switch over from suction to release actions to be effected directly from the driver's seat. For operation only one hydraulic circuit is needed.

**SH-MINI-B and E** – are equipped with a manually operated valve for tripping suction and release sequences.

SH-MINI-E: Plug type F, 230 V.

Can be equipped with a hydraulic rotator as an add-on if requested.

- All-purpose lifting device – One-man operation.
- Huge ease of work.
- Enormous benefit in economization.
- By means of rapid change fasteners different suction plates can be attached to the SH within seconds for varying kinds of applications, various slab dimensions and weights.
- Central load balancing through two variable upper suspensions and adjustable attachment of suction plates.
- Generation of suction through powerful vacuum pump 12 cbm/h.
- Operating handles are arranged in ergonomic position for convenient direction and handling. Handles can easily be rearranged into a rack to put down the device on the ground securely.
- Fitted as standard with chain compartment and load securing chain.
- Compact design.
- Triple safety concept: integrated vacuum storage tank, visual checking via pressure check valve with red-green-area, battery powered acoustic warning device.

Type	Type of Drive hydraulic kW	Type of Drive electric/AC (50 Hz) kW	Type of Drive Petrol Engine kW	Electric Connection/ AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Hydraulic Connection Backflow Pressure, max bar (psi)	Hydraulic Connection Volumetric Flow l/min (gpm)	Hydraulic Connection Pressure bar (psi)	Working Load Limit/ WLL -600 mbar kg (lbs)	Order-Number
SH-1000-MINI-H	2.5				91 (200)	10 (145)	16 – 80 (4 – 21)	80 – 320 (1,160 – 4,641)	1,000 (2,210)	52400040
SH-1000-MINI-B			2.9		90 (200)				1,000 (2,210)	52400018
SH-1000-MINI-E		0.52		230	89 (195)				1,000 (2,210)	52400020

For proper suction plates refer to page 94.



max. 1,650 kg/3,650 lbs

## POWERJET PJ-1650 Vacuum-Lifting Device

Large-sized concrete slabs with decorative surface finish as well as sandstone slabs may sometimes be very porous. The POWERJET PJ-1650 is especially designed for these kind of slabs.

The enormous suction capacity of this series makes an efficient and safe installation of such porous slabs possible now. This enormous suction capacity is produced by a special vacuum blower for vacuum generation.

Can be attached to any carrier by means of load hook, chain, ropes etc.

Can be equipped with a hydraulic rotator as an add-on if requested.

- With intelligent, battery powered warning system.
- Highest working safety due to integrated chain safety device, so that even highly porous lifting material is protected in case of power failure.
- Ergonomic handles for guiding the PJ.
- Compact design.
- Including high-volume dust filter.
- Durable surface protection by galvanizing.
- Powered by integrated petrol engine with electric start, with integrated manually operated suction release device.
- Optional features: radio remote control of the suction release device PJ-B-FFS or alternatively hydraulically operated suction release device PJ-B-HAE.
- With one of these two options, the vacuum lifting device becomes fully one-man operation. The operator controls the activation and release of suction from the drivers seat.
- Powered by the hydraulic system of the carrier, standard equipment includes hydraulically operated suction release device. The operator controls the activation and release of suction from the drivers seat.



PJ-1650-B



PJ-1650-H



PJ with PJ-RS

**PJ-1650-H:** Powered by the hydraulic system of the carrier, standard equipment includes hydraulically operated suction release device, the operator controls the activation and release of suction from the drivers seat.

Type	Type of Drive Petrol Engine kW	Type of Drive hydraulic kW	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Hydraulic Connection Backflow Pressure, max bar (psi)	Hydraulic Connection Pressure, min bar (psi)	Hydraulic Connection Volumetric Flow l/min (gpm)	Working Load Limit/ WLL -400 mbar kg (lbs)	Order-Number
<b>PJ-1650-B</b>	6.6		132 (290)					1,650 (3,650)	<b>52400036</b>
<b>PJ-1650-H</b>		5.0	117 (260)	200 (2,901)	10 (145)	200 – 320 (2,901 – 4,641)	16 – 70 (4 – 18)	1,650 (3,650)	<b>52400038</b>

### Accessories:

**PJ-RS:** Transport Trolley suitable for PJ-1650-B and -H. For using the POWERJET device as mobile vacuum unit on site. Safe transport.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>PJ-RS</b>	Transport trolley for PJ-1650-B and -H.	20.1 (45)	<b>42400497</b>
<b>PJ-B-FFS</b>	Radio remote control for suction release for PJ-1650-B	0.5 (1)	<b>42400502</b>
<b>PJ-B-HAE</b>	Hydraulic release device, carrier has to provide one separate hydraulic circuit for proper connection. Inclusive Hydraulic hose. For operation w/VM-401/301/203.	1.12 (2.47)	<b>41900122</b>
<b>PJ-B-HAE</b>	Hydraulic release device, carrier has to provide one separate hydraulic circuit for proper connection. Inclusive Hydraulic hose. For operation w/excavator.	1.32 (2.9)	<b>41900123</b>

# Vacuum Lifting Device SH for heavy loads up to 3,500 kg

5



SH-2500-GREENLINE

**For easy and efficient handling and laying of natural stones, concrete and marble slabs, pipes and steps, etc.**

- Designed and equipped specifically for tough construction site use.
- Can be attached to any carrier by load hook, chains, rope.
- Efficient, flexible operation with no compromise on safety.
- In seconds, various suction plates can be fitted to the SH via a quick release locating pin, enabling it to be used for many different purposes and with many different loads.



SH-3500-B

## Vacuum Lifting Device SH-3500-B

max. 3,500 kg/7,700 lbs

Threefold vacuum pump capacity compared with the previous standard SH-2500-UNI-B device, producing a significantly faster buildup of vacuum, also suitable for more porous elements. Complete automatic drive via integral petrol engine with electric starter.

Optional available: Wheelset SH-3500-RS, support feet SH-3500-AF and remote control SH-3500-FFS.

- With integral chain-box and load-securing chain.
- Suction and release operation via comfortable button-activation on the control console.
- Built-in operating hours counter.
- With fork sleeves for lifting forks for transportation and for laying.
- All available SH-suction plates are compatible with the SH-3500-B. (in connection with SPS-2500 an adapter is required)

Type	Description	Type of Drive Petrol Engine kW	Dead Weight kg (lbs)	Working Load Limit/WLL -600 mbar kg (lbs)	Order-Number
<b>SH-3500-B</b>	Basic device, without suction plate	3.6	177.4 (390)	3,500 (7,700)	<b>52400041</b>
<b>SH-3500-B-FFS</b>	Basic device, without suction plate. With remote control	3.6	180 (395)	3,500 (7,700)	<b>52400047</b>

### Accessories

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>SH-3500-RS</b>	Wheelset for SH-3500-B	10.6 (25)		<b>42500256</b>
<b>SH-3500-AF</b>	Support feet for SH-3500-B	12.8 (30)		<b>42400579</b>
<b>SH-AD</b>	Retrofit kit with Rotator	44.1 (95)		<b>42500267</b>
<b>SH-TRA-3500 Spreader Bar</b>	For multiple use of the suction plates single plates adjustable. Suction plate turnable by 90°. Distance between centres of suction plates adjustable from max. 1,450 mm (57 inch) to min. 560 mm (22 inch)	63.3 (140)	3,500 (7,700)	<b>42500260</b>

max. 2,500 kg/5,500 lbs

## Vacuum Lifting Device SH-2500



SH-2500-UNI-E



SH-2500-UNI-B

Main Body robust and compact for use on the building site.  
Working load limit: Type SH-2500-UNI up to 2,500 kg at – 0.6 bar.  
The working load limit is dependent on the suction plate used.

### Safety Devices:

Vacuum gauge

Safety vacuum storage tank

Pressure relieve valve

### Various Means of Power:

E = electric, 230 Volt, single phase

B = petrol engine

Motor-protecting switch, "Schuko" connector including connecting plug (only for SH-2500-UNI-E).

Manually operated valve for vacuum "on/off".

■ Acoustic warning device with inbuilt intelligence. Batteries last approx. 1 year.

■ Operating handle in ergonomic position.

■ Fitted as standard with chain compartment and load securing chain.

**SH-2500-UNI-E:** Plug type F, 230 V

Type	Type of Drive electric/AC (50 Hz) kW	Type of Drive Petrol Engine kW	Electric Connection/AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Working Load Limit/WLL -600 mbar kg (lbs)	Order-Number
SH-2500-UNI-E	0.55		230	116 (255)	2,500 (5,500)	52400044
SH-2500-UNI-B		2.9		120 (265)	2,500 (5,500)	52400043

### Accessories:

**SH-2500-HGV:** Should be used when laying elements wider than 1 meter (39½ inch). This way, the employee is out of the danger zone during the application. Handle Extension SH-2500-HGV can be fitted at any time later to the structure of SH-2500 by bolting it on with brackets.

**SH-2500-RS:** The wheelset consists of two attachable main wheels, diameter 300 mm (11¾ inch), one foldable support-wheel and one swivelling wheel. Later attachment to the basic device SH is no problem.

Type	Description	Order-Number
SH-2500-HGV	Handle extension for all models SH-2500	42400088
SH-2500-RS	Wheelset for all models SH-2500	42500299





SH-2500-GREENLINE

## Vacuum Lifting Device SH-2500-GREENLINE

max. 2,500 kg/5,500 lbs

**The classic now also with battery power. Powerful and independent of mains power.**

Suitable for predominantly non-porous concrete and natural stone elements.

Fitted as standard with load securing chain.

Powered by a 24 V lithium-ion rechargeable battery. (exchangeable battery concept) can operate up to 6 hours.

Can be equipped with a hydraulic rotator as an add-on if requested.

■ Emission-free and low-noise operation.

### Scope of delivery:

**SH-2500-GREENLINE:** 1 x rechargeable battery and a 230 V/50 Hz charger. The charging time is approx. 2.5 hours.

**SH-2500-GREENLINE-FFS:** As SH-2500-GREENLINE, but with additional remote control for suction and release.

Type	Description	Battery Capacity Ah	Type of Drive electric/Battery kW	Working Voltage V	Dead Weight kg (lbs)	Working Load Limit/WLL -600 mbar kg (lbs)	Order-Number
<b>SH-2500-GREENLINE</b>	Basic device, without suction plate	23	0.4	24	151 (335)	2,500 (5,500)	<b>52400046</b>
<b>SH-2500-GREENLINE-FFS</b>	Basic device, without suction plate. With remote control	23	0.4	24	151 (335)	2,500 (5,500)	<b>52400048</b>

### Accessories:

**SH-2500-HGV:** Should be used when laying elements wider than 1 meter (39½ inch). This way, the employee is out of the danger zone during the application. Handle Extension SH-2500-HGV can be fitted at any time later to the structure of SH-2500 by bolting it on with brackets.

**SH-2500-RS:** The wheelset consists of two attachable main wheels, diameter 300 mm (11¾ inch), one foldable support-wheel and one swivelling wheel. Later attachment to the basic device SH is no problem.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>Battery-24V/23Ah</b>	Spare storage battery for SH-2500-GREENLINE	5 (10)	<b>24200142</b>
<b>SH-2500-HGV</b>	Handle extension for all models SH-2500	5.5 (12)	<b>42400088</b>
<b>SH-2500-RS</b>	Wheelset for all models SH-2500	7.7 (17)	<b>42500299</b>

For suction plates see page 94.



## Attachments for Vacuum Lifting Device SH/POWERJET PJ

For different jobs we recommend special suction plates. All suction plates can be changed by means of a quick release coupling (modular principle). The carrying capacities depend on the size of the suction plate.



SPS-2500(1650)-143/78

### Suction Plates SPS for Lifting Device SH/POWERJET PJ

Suction plates for profiled surfaces (e.g. pipes) are available on request. Suction plates are obtainable in all sizes on request.

The Probst special foam-rubber seal is suitable for all types of materials:

- Particularly good with uneven surfaces.
- Extremely durable.
- Changed in a flash: take the old one off, put on the new one – finished!

Type	Dimensions oval, L x B mm (in)	Diameter mm (in)	Dead Weight kg (lbs)	Working Load Limit/ WLL -600 mbar kg (lbs)	Working Load Limit/WLL -400 mbar kg (lbs)	Order-Number
SPS-3500(2300)-174/92	1,740 x 920 (68½ x 36¼)		95 (210)	3,500 (7,700)	2,300 (5,100)	42400555
SPS-2500(1650)-143/78	1,430 x 780 (56¼ x 30¾)		50 (110)	2,500 (5,500)	1,650 (3,650)	52500239
SPS-1500(1000)-80/75	800 x 750 (31½ x 29½)		38 (85)	1,500 (3,300)	1,000 (2,210)	42400232
SPS-1200(800)-96/58	960 x 580 (37¾ x 22¾)		32 (70)	1,200 (2,650)	800 (1,760)	52500162
SPS-1010(670)-84/57	840 x 570 (33 x 22½)		27 (60)	1,010 (2,230)	670 (1,480)	52500238
SPS-500(330)-67/40	670 x 400 (26½ x 15¾)		17 (35)	500 (1,100)	330 (730)	52500002
SPS-400(260)-75/27	750 x 270 (29½ x 10¾)		15 (35)	400 (880)	260 (570)	52500003
SPS-200(130)-37/37-RD		370 (14½)	10 (20)	200 (440)	130 (285)	52500005
Fixing bolt for suction plate						20390001

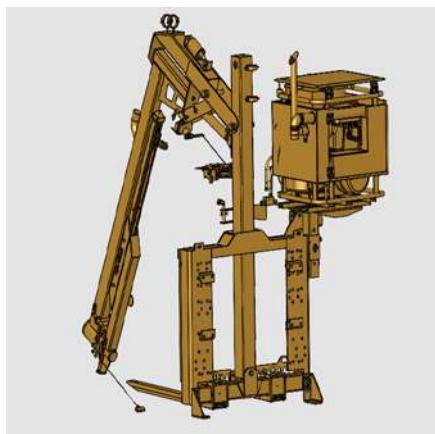
### Spare Parts:

**ED-SPS:** Highly wear-resistant replacement seal: Easy to attach without gluing. Incl. holding fixture.

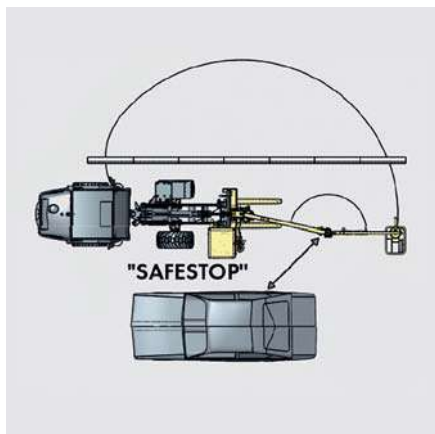
Type	Description	Order-Number
ED-SPS-3500	Replacement seal for SPS-3500	42500154
ED-SPS-2500	Replacement seal for SPS-2500	42500313
ED-SPS-1500	Replacement seal for SPS-1500	42500004
ED-SPS-1200	Replacement seal for SPS-1200	42500005
ED-SPS-1010	Replacement seal for SPS-1010	42500006
ED-SPS-500	Replacement seal for SPS-500	42500002
ED-SPS-200	Replacement seal for SPS-200	42700009



JUMBO-BV-VARIO-150-B



JUMBO-BV-VARIO-150-B



"SAFESTOP" prevents uncontrolled slewing of the articulated boom"

## Vacuum Kerb Stone Installation Machine JUMBO-BV-VARIO

max. 250 kg/550 lbs

The BV-VARIO with articulated boom is equipped with the innovative Probst safety feature "SAFESTOP". thus highest safety in the slewing range!

Mostly kerb stones are installed one side of the road, while on the other side vehicles are still allowed to drive. Existing knuckle boom jibs provide some advantages, such as space requirements, but usually they have disadvantages because it cannot be avoided that they might swing into the trafficed area. This could cause fatal accidents.

### Vacuum Components:

Petrol engine and vacuum turbine unit with silencer.

Supply hose and lifting hose.

Lifting height from fork prong level up to approximately 1,100 mm (43¼ inch).

Operating Valve unit with handle, dustfilter.

Kerb stone suction gripper with durable foam rubber seal, also suitable for natural kerbstones.

All components can be changed using quick fasteners.

### Pillar Swing Crane:

With hydraulic, vertical tilt capability, diagonal to the direction in which it is travelling.

Capable of tilting in the direction in which it is travelling via the pivotal cylinder of the loading bucket.

Swing range of the crane jib appr. 270°.

Height of the jib appr. 2,800 mm (110¼ inch).

The jib can be folded hydraulically.

Suction plate: Incl. 1 kerb stone suction plate WSP-150 (Working load limit 150 kg/330 lbs).

- Innovative Safety Feature: knuckle boom with shifting suspension with „SAFESTOP“.
- Via two adjustment bolts, the operator can make sure, whether he only wants to install on the left side, the right side or on both sides of the loader. Now it is easy, fast and safe to do installation works up to 150 kg (330 lbs) also along-side walls, around trees or posts.
- Installing heavy elements by vacuum lifting force light as a feather, combined with best logistic: distribution and installation in one go. Cost effective and health and safety conjus for your workers.
- The jib can be folded down for compact transportation measurements quick and easy via a hydraulic cylinder.
- Feeding the vacuum to the lifting unit by well thought out design through the knuckle boom link.
- Easy and quick locking of both knuckle boom links by spring loaded bolt.
- Time saving: 7 kerbs, each 1,000 mm (39") long can be installed without moving the loader.
- Well proven quick change device for fitting different suction plates within less than one minute.
- **New:** With reinforced boom, 250 kg (550 lbs) payload is possible at full extension. (only art. no. 52200016).

Type	Type of Drive Petrol Engine kW	Working Width mm (in)	Load Extension mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
<b>JUMBO-BV-VARIO-150-B</b>	8.1	7,000 (275½)	3,500 (137¾)	520 (1,150)	150 (330)	<b>52200011</b>
<b>JUMBO BV-VARIO-B-250-XL *</b>	8.1	7,000 (275½)	3,500 (137¾)	555 (1,220)	250 (550)	<b>52200016</b>

\* Expected to be available as of 2nd quarter 2022

max. 150 kg/330 lbs



MM-150-GREENLINE with Vacuum Turbine Unit, Lifting Hose Unit, Operating Unit, Hose Cylinder Extension and Suction Plate

## MULTIMOBIL MM

**The slim all-rounder for landscaping. Transport's concrete and natural stone elements and bulk material.**

The narrow laying trolley moves large loads directly to the laying location quickly and without effort. Even to places where no other vehicle can go! Due to the narrow vehicle width of only 700 mm (27½ inch), the MULTIMOBIL MM can also get through normal doors and thus also into private gardens.

The two interchangeable bodies (1. Interchangeable body with mast and articulated boom, 2. Interchangeable body with tiltable/interchangeable body) can be changed easily, quickly and without tools by one person thanks to the practical body change system.

MM-150-GREENLINE



Type	Description	Type of Drive Diesel Engine kW	Type of Drive electric/ Battery kW	Load Extension mm (in)	Width mm (in)	Driving Speed km/h (mph)	Weight Dead Weight kg (lbs)	Pay- load kg (lbs)	Working Load Limit/ WLL kg (lbs)*	Vol- ume Shovel m³ (ft³)	Volume Hopper m³ (ft³)	Order-Number
<b>MM-150 GREENLINE</b>	Crawler chassis with interchangeable body with mast and articulated boom		5.5	2,600 – 2,100/ 1,700 (102¼ – 82¾/67)	700 (27½)	1.5/ 3.0 (.93/ 1.86)	770 (1,700)	400 (880)	50 – 85/ 150 (110 – 185/ 330)			<b>43500032</b>
<b>MM-150-D</b>	Crawler chassis with interchangeable body with mast and articulated boom	4.9		2,600 – 2,100/ 1,700 (102¼ – 82¾/67)	700 (27½)	1.6/ 5.2 (.99/ 3)	610 (1,350)	400 (880)	50 – 85/ 150 (110 – 185/ 330)			<b>43500031</b>
<b>MM-KA</b>	Tilting interchangeable body (Dump body and self-loading shovel – without crawler chassis)						235 (520)	450 (990)		0.05 (1¾)	0.3 (10½)	<b>43500033</b>





Crawler chassis of MM-D when changing the body MM-KA

#### MULTIMOBIL MM-150-GREENLINE

Emission-free operation thanks to electric drive – of particular advantage when working in public facilities or on construction sites with large public traffic.

Incl. interchangeable body with mast and articulated boom.

Powered by a rechargeable 48 V lithium-ion battery.

Operating time with one battery charge: 2 hours at maximum performance.

In practice, up to one day, depending on the application.

Charging time approx. 8 hours.

#### MULTIMOBIL MM-150-D

Crawler chassis with Yanmar diesel engine incl. interchangeable body with mast and articulated boom.

#### Interchangeable body 1 with mast and articulated boom:

Transport and handling of concrete and natural stone elements.

Flexible platform construction, with height-adjustable mast and articulated boom, which can be equipped with a wide range of attachment tools (see accessories).

If required, the platform superstructure can be placed on supports so that the laying work can also be carried out without the chassis. The optional counterweight set MM-GS ensures the necessary stability.

A second person can thus work in parallel with the crawler chassis and the tilting / interchangeable body.

#### Interchangeable body 2 with tilting / interchangeable body MM-KA:

For transport of bulk materials.

Optionally available tipper body with hydraulically tipping trough, hydraulic actuated self-loading bucket, quick-change couplings for the 4 hydraulic connections and 4 telescopic supports for parking the body.

**The articulated boom of the platform superstructure can be extended with different attachment tools.**

#### These items are:

Attached to the electric wire rope hoist (230 V, wired):

- Mechanical grab, e.g. EASYGRIP EXG/EXG-MAXI Border Stone Handle.
- Ergonomic Vacuum Control Unit VS-ERGO-SPS-50-29/22 in conjunction with SPEEDY VS as vacuum generator.
- STONEMAGNET SM-600-GREENLINE/SM-600-GREENLINE-POWER.

Combined with the vacuum generator VGE-230 on the loading area:

- Vacuum Lifting Hose Units HE-35 to HE-150, Operating Valve Unit BE-Sprint-2, Ergonomic Vacuum Control Unit BE-ERGOSPRINT, Hose Cylinder Extension SZV with corresponding suction plates.

## Accessories

Type	Description	Type of Drive electric/ AC (50 Hz) kW	Electric Connection/AC (50 Hz) Voltage V	Weight Dead Weight kg (lbs)	Working Load Limit/ WLL kg (lbs)	Order-Number
<b>Rope hoist</b>		0.75	230	22 (50)	200 / 400 (440 / 880)	<b>43500036</b>
<b>MM-GS</b>	Consisting of 4 x 60 kg (132 lbs) individual weights. For operation on MM-150-GREENLINE and MM-150-D without crawler chassis.			240 (530)		<b>43500054</b>

\*Working load limit depending on the inserted load extension.





## Ergonomic Vacuum Control Unit VS-ERGO-SPS-50-29/22

The construction materials are sucked in with the VS-ERGO-SPS-50-29/22, lifted by a wire rope hoist, and then transported to the place to be laid and set down. The detachment is secured with a 2-fold actuation to prevent unintentional detachment. In combination with a carrier device, such as the MULTIMOBIL MM, it is a very flexible vacuum lifting device. Thanks to the ergonomic operating unit, the operator can work in a standing position, which is easy on the operators back.

VS-ERGO-SPS-50-29/22

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Type	Dimensions L x W mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL -200 mbar kg (lbs)	Order-Number
<b>VS-ERGO-SPS-50-29/22</b>	290 x 220 (11 1/2 x 8 3/4)	15 (35)	50 (110)	<b>43500025</b>



## 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 suction-tight materials. The blower unit is mounted on the MULTIMOBIL MM.

The fan is controlled with a frequency converter that does not overload the 230V house fuse.

VGE-230

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

## Accessories

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>MM-HE-AS</b>	Retrofit kit for HE-35 to -150 on VGE-230 for MULTIMOBIL MM.	13 (30)	<b>43500026</b>



JM-VARIO-200-B



JM-VARIO-200-B

## JUMBOMOBIL JM-VARIO Vacuum Slab Laying Machine

max. 200 kg/440 lbs

For the easy, exact and economical laying of concrete slabs, natural stones, slabs with exposed aggregates, large pavers, petrol station pavers and environmental pavers.

- Extremely easy and light laying as the lifting and setting down are done by a vacuum hose lifter.
- Exact positioning of slabs by means of a smooth-running pillar swing crane with low dead weight.
- Slabs which have already been laid can easily be lifted again.
- Can easily lay up to 300 square metres (3228 sq ft) a day.
- With knuckle boom for safe and quick installation even along house walls.

### Scope of delivery:

**Chassis:** Rugged undercarriage (L x W = 1,300 mm x 1,300 mm / 51¼ x 51¼ in), 1 steering axle, 1 axle with hand brake, 4 pneumatic heavy duty wheels, compartments for counter weights, foldable supports.

**Swing Crane:** Telescopic in height via a hand operated winch crane jib 4 m (157½ in) in length and able to turn 350° with 4 different stopping points. Foldable down to 2 m (78¾ in) in length and 2 m (78¾ in) in height for easy transport.

**Vacuum turbine unit VGE electrically driven (E):** Powerful vacuum turbine with 3-phase electrical motor, maximum underpressure 520 mbar (7,541 psi), incl. motor protection switch, plug CEE 32 A with integrated phase-switch, silencer, air-fil-ter with pre-separator. Type VGE-SB-L-E.

**Petrol driven (B):** Powerful vacuum turbine with integrated petrol engine, silencer, service hourmeter, air-filter with pre-separator. Type VGE-3-RG-B including conversion kit.

**Vacuum Hose Lifter:** Supply hose, lifting unit, operating valve unit, hose-cylinder extension. Lifting height -250 mm/9¾ inch (below ground level) to +1250 mm/49¼ inch.

**Suction plate ESP-150-31/31 (for JM-VARIO-150). Suction plate ESP-200-33/33 (for JM-VARIO-200)**  
All components are exchangeable via quick fasteners.

Type	Type of Drive electric/AC (50 Hz) kW	Type of Drive Petrol Engine kW	Type of Drive electric/AC (60 Hz) kW	Load Extension mm (in)	Electric Connection/AC (60 Hz) Voltage/ AC (60 Hz) V	Electric Connection/ AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
JM-VARIO-150-E-EU	4		4.8	3,900 (153½)	265 / 460	230 / 400	720 (1,590)	150 (330)	52000021
JM-VARIO-150-E-USA			4.8	3,900 (153½)	230 / 460		720 (1,590)	150 (330)	52000022
JM-VARIO-200-E-EU	4		4.8	3,000 (118)	265 / 460	230 / 400	730 (1,610)	200 (440)	52000023
JM-VARIO-200-E-USA			4.8	3,000 (118)	230 / 460		730 (1,610)	200 (440)	52000024
JM-VARIO-150-B		8.1		3,900 (153½)			720 (1,590)	150 (330)	52000018
JM-VARIO-200-B		8.1		3,000 (118)			730 (1,610)	200 (440)	52000020
JM-VARIO-150-E-EU*	4		4.8	3,900 (153½)	265 – 460	230 – 400	725 (1,600)	150 (330)	52000025
JM-VARIO-150-E-USA*			4.8	3,900 (153½)	230 – 460		725 (1,600)	150 (330)	52000026
JM-VARIO-200-E-EU*	4		4.8	3,000 (118)	265 – 460	230 – 400	735 (1,620)	150 (330)	52000027
JM-VARIO-200-E-USA*			4.8	3,000 (118)	230 – 460		735 (1,620)	150 (330)	52000028
JM-VARIO-150-B*		8.1		3,900 (153½)			725 (1,600)	150 (330)	52000029
JM-VARIO-200-B*		8.1		3,000 (118)			735 (1,620)	150 (330)	52000030

\* Expected to be available as of 2nd quarter 2022



TM-150-D-A-XL

## TRANSMOBIL TM Installation Carrier

A compact universal machine – transport and handling of palletized building material and vacuum installation all in one.

With a dead weight of approx. 1,600 kg (3525 lbs) only, transportation is done easily with a standard trailer.

The powerful vacuum laying unit allows the immediate installation of heavy construction elements – effortless and without physical strain.

The lifting unit is equipped with 2 fork tines. Working length 1,090 mm (43"), horizontally adjustable. Lifting height of the lifting unit 340 mm (13 1/2"), lifting capacity 1,500 kg (3,300 lbs).

For maximum pallet-width of 1,300 mm (51").

Dimensions: Overall width 1,910 mm (75"). Total height in transporting position 2,280 mm (90").

Total length in transporting position 2,300 mm (91").

We offer two models:

**TM-150-D-A-XL:** with sound insulated Hatz Silent Pack diesel engine.

**TM-150-D-A-SILENT-XL:** with sound insulated Hatz Silent Pack diesel engine with additional soundproofing measures. Noise emission < 80 dB.

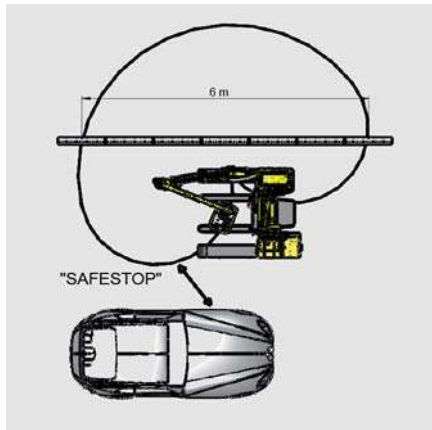
Both models are equipped with electronic, fully automatic boom alignment – makes work even quicker and particularly user-friendly. Positioning of laying elements without physical effort.



TM-150-D-A-XL

Type	Type of Drive Diesel Engine kW	Load Extension mm (in)	Weight Dead Weight kg (lbs)	Payload kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>TM-150-D-A-XL</b>	9.6	3,000 (118)	1,576 (3,450)	1,500 (3,300)	150 – 250 (330 – 550)	<b>52220012</b>
<b>TM-150-D-A-SILENT-XL</b>	9.6	3,000 (118)	1,689 (3,700)	1,500 (3,300)	150 – 250 (330 – 550)	<b>52220014</b>
<b>TM-150-D-A-XL*</b>	9.6	3,000 (118)	1,595 (3,500)	1,500 (3,300)	150 – 250 (330 – 550)	<b>52220015</b>
<b>TM-150-D-A-SILENT-XL*</b>	9.6	3,000 (118)	1,710 (3,750)	1,500 (3,300)	150 – 250 (330 – 550)	<b>52220016</b>

\*Expected to be available as of 2nd quarter 2022



"SAFESTOP" prevents uncontrolled slewing of the articulated boom"

- Mostly kerb stones are installed one side of the road, whilst on the other side vehicles are still allowed to drive. Knuckle boom jib with „SAFESTOP“ never reaches into the traffic area.
- Robust vacuum lifting unit 150 kg (330 lbs) capacity HE-150 and Operating valve unit BE-Sprint-2, can be taken off the unit by quick release connections, for example during the night (protection against vandalism).
- The mast of the vacuum laying unit can be adjusted precisely vertically to allow positioning of the lifting unit light as a feather alongside the perfectly horizontal jib. Adjustment approx. +/- 5 degree sideways, +/- 10 degree in driving direction.
- Compact transportation measurements. The jib is lowered down without manual power via a hydraulic cylinder.
- Quick and simple locking of both knuckle boom links by operating just one lever.
- Hour meter and ignition switch (safeguard in regards of insurance).
- Robust, powerful rubber crawler track – thus the TRANSMOBIL TM maneuvers well and unfailing even on rough terrain. Travel speed approx. 2,2 km/h (1,4 mph).
- Driven by powerful vacuum turbine, also lifts porous materials.
- With more powerful lifting hose unit, proper suction plate etc. and platform for counterweight TM-GGP upgradeable to 200 kg (440 lbs) lifting capacity when fully extended and up to 250 kg (550 lbs) at reduced outreach of 500 mm (19½ inch).
- New:** With reinforced boom, 250 kg (550 lbs) payload is possible **at full extension**. (only art. no. 52220015 and 52220016).

## Accessories:

Type	Description	Weight Dead Weight kg (lbs)	Payload kg (lbs)	Order-Number
<b>TM-GGP</b>	Essential add-on once the lifting capacity exceeds 150 kg (330 lbs). Installation material, such as kerb stones serve as counterweight.	9.2 (20)	250 (550)	<b>42220070</b>

For suction plates see page 104 – 107 or contact us for professional advice.





## Lifting Hose Units HE

For use with the 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 not to be operated with JUMBOMOBIL and MULTIMOBIL MM).  
Consists of:  
Transportation hook.  
Rotational Device and quick coupling, 2 inch.  
Lifting hose unit with protective fabric as well as a flange for fitting onto the operating valve unit.  
Available optionally for HE-150/200/250: reinforced belt stay with buckle.

HE-35 – HE-250

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Type	Diameter mm (in)	Height Lifting Height mm (in)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
HE-35	120 (4¾)	1,700 (67)	35 (75)	42100001
HE-50	140 (5½)	1,700 (67)	50 (110)	42100106
HE-85	178 (7)	1,700 (67)	85 (185)	42100002
HE-150	230 (9)	1,500 (59)	150 (330)	42100132
HE-200	250 (9¾)	1,500 (59)	200 (440)	42101114
HE-250	300 (11¾)	1,500 (59)	250 (550)	42101115



## Operating Valve Unit BE-SPRINT-2

For direct coupling onto the lifting unit HE.  
Longer operating handles on request.

### Scope of delivery:

**BE-SPRINT-2:** Main body with handle 500 mm (19½ inch) long, fixing screw for adjusting the hovering position, safety gauge.

BE-SPRINT-2

Type	Description	Dead Weight kg (lbs)	Order-Number
BE-SPRINT-2	for HE-35 up to HE-250	8.5 (20)	42100539





BE-ERGOSPRINT

## Ergonomic Vacuum Control Unit BE-ERGOSPRINT

### Picking up and laying concrete elements in an upright posture.

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

- No more bending over when picking up, moving and laying the concrete element.
- Control of suction and release via rotary handle on the right handle.
- Handle can be locked in the uppermost position.
- Greater safety clearance to paving material.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>BE-ERGOSPRINT</b>	for HE-35 up to HE-250	13.5 (30)	<b>42101305</b>



SZV

## Hose Cylinder Extension SZV

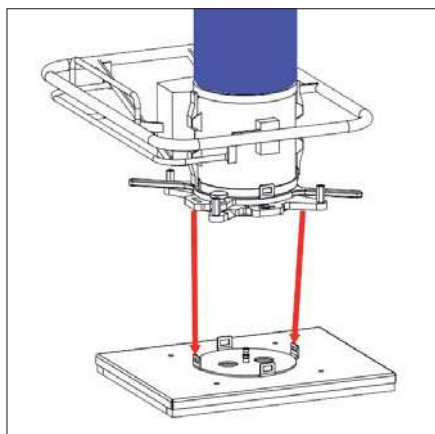
Only to be used as and when required to enable ergonomic working conditions, at certain heights.

Length 300 mm (11¾ inch).

### Scope of delivery:

**SZV:** Vacuum pipe with quick fasteners and transmission bar for ram.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>SZV</b>	for HE-35 up to HE-150	3.2 (7)	<b>42100007</b>
<b>SZV-250</b>	for HE-200 up to HE-250	5.8 (15)	<b>42100008</b>



## Quick Change Device SWV-HE

Suction plates are usually fixed to the operating valve unit BE or hose cylinder extension SVZ through two hook latches.

In case suction plates have to be changed continually, the quick change device SWV-HE is highly recommended.

When using lifting hose units HE-200 and HE-250, the lifting hose unit is fitted directly to the lifting hose unit by means of 4 tension rods (threaded rods).

- Faster suction plate changing with a simple twisting 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.

SWV-HE

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Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>SWV-HE</b>	Quick change device	3.8 (8)	250 (550)	<b>42101026</b>



## Suction Plates ESP

**For the direct coupling to the operating valve unit or the hose cylinder extension.**

Suction plates with attached foam rubber seal, including lifter for tactile steering.

For more suction plates contact us for professional advice.

ESP-150-31/31

Type	Dimensions L x W mm (in)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
<b>ESP-35-20/20</b>	200 x 200 (7¾ x 7¾)	35 (75)	<b>42100050</b>
<b>ESP-50-23/23</b>	230 x 230 (9 x 9)	50 (110)	<b>42100561</b>
<b>ESP-85-25,5/25,5</b>	255 x 255 (10 x 10)	85 (185)	<b>42100051</b>
<b>ESP-150-31/31</b>	310 x 310 (12¼ x 12¼)	150 (330)	<b>42100145</b>
<b>ESP-150-40/27,5</b>	400 x 275 (15¾ x 10¾)	150 (330)	<b>42100116</b>
<b>ESP-150-50/19</b>	500 x 190 (19¾ x 7½)	150 (330)	<b>52300019</b>
<b>ESP-150-92,4/13,4</b>	924 x 134 (36½ x 5¼)	150 (330)	<b>52300008</b>
<b>ESP-150-100/12,4</b>	1,000 x 124 (39¼ x 5)	150 (330)	<b>52300007</b>
<b>ESP-200-33/33</b>	330 x 330 (13 x 13)	200 (440)	<b>42100331</b>
<b>ESP-250-40/40</b>	400 x 400 (15¾ x 15¾)	250 (550)	<b>42100054</b>

**Caution:** It is forbidden to use suction plates with a smaller working load limit than the lifting unit HE to ensure that the lifting unit is not detached. It is permissible to use suction plates with a higher working load limit than the lifting unit.



## Angled Suction Plates WSP

**For the direct coupling to the operating valve unit or the hose cylinder extension.**

Suction plates with attached foam rubber seal, including lifter for tactile steering.

Other suction plates on request.

WSP

Type	Dimensions L x W x H mm (in)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
<b>WSP-150-52/15-12-98°</b>	520 x 150 x 120 (20½ x 6 x 4¾)	150 (330)	<b>52500184</b>
<b>WSP-150-70/8-11-143°</b>	700 x 80 x 110 (27½ x 3¼ x 4¼)	150 (330)	<b>42100238</b>
<b>WSP-150-70/11-17-143°</b>	700 x 110 x 170 (27½ x 4¼ x 6¾)	150 (330)	<b>42100126</b>
<b>WSP-150-85/7-7-135°</b>	850 x 70 x 70 (33½ x 2¾ x 2¾)	150 (330)	<b>52300018</b>
<b>WSP-150-70/13-10-143°</b>	700 x 130 x 100 (27½ x 5 x 4)	150 (330)	<b>52500131</b>
<b>WSP-150-90/10-14-93°</b>	900 x 100 x 140 (35½ x 4 x 5½)	150 (330)	<b>52300033</b>
<b>WSP-150-90/8-11-90°</b>	900 x 80 x 110 (35½ x 3¼ x 4¼)	150 (330)	<b>42100795</b>

**Caution:** It is forbidden to use suction plates with a smaller working load limit than the lifting unit HE to ensure that the lifting unit is not detached. It is permissible to use suction plates with a higher working load limit than the lifting unit.



MSP 3-way (movable)



MSP 5-way (movable)



MSP 7-way (movable)

## Multiple Suction Plates MSP

**A modular design system, working with mainly standardised elements.**

We can therefore produce the appropriate suction plates fast and cost efficient according to customers needs.

■ Quickly replaceable sealing rings with low-wear sponge rubber.

**MSP-X-V... (movable):** multiple suction plate with distance control. If a certain distance between stones is needed, you can fix the distance of the suction pad with a lever at a set distance, so the stones will always have the correct spacing.

**MSP-X-S... (rigid):** multiple suction plate with adjustable spacing of the suction plates. Subsequent fixation via screws.

Type	Dimensions oval, L x B mm (in)	Dimensions L x W mm (in)	Number of Suction Plates Pcs.	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
<b>MSP-3-S-150-3x22RD</b>	220 (8¾)		3	150 (330)	<b>42101192</b>
<b>MSP-5-V-150-5 x SPS-24/ 16-a-24</b>		240 x 160 (9½ x 6¼)	5	150 (330)	<b>42101097</b>
<b>MSP-7-V-150-7 x SPS-17/ 16-a-16</b>		170 x 160 (6¾ x 6¼)	7	150 (330)	<b>42101096</b>
<b>MSP-7-V-150-7 x SPS-16/ 14a-16</b>		160 x 140 (6¼ x 5½)	7	150 (330)	<b>42101078</b>



top: UZ-BV, bottom: VZ-BV



RG-VZ

## 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.

**RG-VZ:** Special clamp for the laying of 1, 2 or 3 grass stone slabs in one movement.

**VZ-BV-98/100:** 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-40/104:** 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.

Type	Description	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
<b>UZ-BV</b>	Radius Kerb Clamp	12 (25)	80 – 220 (3¼ – 8¾)	150 (330)	<b>52300031</b>
<b>VZ-BV-98/100</b>	Mechanical Kerb Stone Handle	8 (20)	980 – 1,000 (38½ – 39¼)	150 (330)	<b>42300001</b>
<b>VZ-BV-40/104</b>	Mechanical Kerb Stone Handle	6.9 (15)	400 – 1,045 (15¾ – 41¼)	150 (330)	<b>42300149</b>
<b>RG-VZ</b>	Turf Stone Handle	12 (25)	100 – 490 (4 – 19¼)	70 (155)	<b>42000003</b>





## Vacuum Measuring Case VMK

**For measuring the actual negative pressure of our vacuum devices.**

The negative pressure of the individual components (suction plate, lifting hose and supply hose) can be measured gradually with this.

Possible leaks in the vacuum system can be identified here.

### Scope of delivery:

**VMK:** Case contents: Vacuum measuring device, pneumatic hose 6x1, 9V battery, cannula, universal measuring adapter, measuring adapter cannula, GEKA measuring adapter, hose coupling measuring adapter.

VMK

5

Type	Dimensions L x W x H mm (in)	Dead Weight kg (lbs)	Order-Number
<b>VMK</b>	390 x 330 x 180 (15¼ x 13 x 7)	4.8 (10)	<b>52950003</b>



## Device for Vacuum Test UXP

**To check the different components of a vacuum system for leaks.**

UXP

Type	Dead Weight kg (lbs)	Measuring Range bar (psi)	Order-Number
<b>UXP</b>	0.4 (1)	0 – -1 (0 – -14.5)	<b>22130014</b>



VZ-M-UNI

## Kerb Stone Clamp VZ-M-UNI

Fully mechanical operation for use with any wheel loader, excavator or other carriers.

- Lifting eye for attaching to crane hook.
- Handles for optimal guidance of the clamp.
- Automatic release for the fully automatic switch over from "full" to "empty".
- Durable surface protection by galvanizing.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>VZ-M-UNI</b>	150 (6)	50 (2)	21 (45)	900 – 1,065 (35½ – 42)	300 (660)	<b>53100275</b>

6



BZ

## Kerb Stone Handles BZ

For the handling of kerb stones, edging stones, gutters and similar. Also for natural kerb stones.

The plumb line remains completely free through a short intervening.

We recommend, using the kerb stone handles in pairs.

- Exchangeable rubber grippers in grey.
- Galvanised finish.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>BZ</b>	150 (6)	200 (7¾)	3.8 (8)	0 – 400 (0 – 15¾)	150 (330)	<b>53200084</b>

### Spare Parts:

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>Spare Rubbers BZ</b>	per piece, loose (grey)	0.08 (0,18)	<b>43200006</b>
<b>Spare Rubbers BZ</b>	2 pieces in plastic bag (grey)	0.16 (0,36)	<b>43200115</b>



BVZ

## Universal Handle BVZ

A large adjustable opening range means the BVZ can be universally used for all gardening- and landscaping-design products.

- Removable handles.
- Exchangeable rubber metal bars as gripping elements.
- Galvanised finish.
- Pin bolts to adjust the opening width.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>BVZ</b>	200 (7¾)	210 (8¼)	11.5 (25)	0 – 550 (0 – 21¾)	200 (440)	<b>53200020</b>

6



VZ-I

## Laying Clamp VZ

Especially suitable for handling concrete kerb stones.

- The one-sided angular supports which are placed on the kerb stone already in place enable an extremely narrow joint.
- Grips longitudinally so that it can be used in tightest spaces.
- No deflection of the plumb line.
- All models are equipped with a lifting eye.
- Durable surface protection by galvanizing.

**VZ-II:** Comes complete with rubber grippers, suitable for moving large slabs.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>VZ-I</b>	100 (4)	40 (1½)	11 (25)	500 – 1,045 (19¾ – 41¼)	100 (220)	<b>53100140</b>
<b>VZ-II</b>	200 (7¾)	50 (2)	25 (55)	700 – 1,000 (27½ – 39¼)	300 (660)	<b>53100141</b>



## EASYGRIP EXG Border Stone Handle

**Small, lightweight, easy to handle but nonetheless ultra-strong!**

**EASYGRIP EXG is a mechanical grab suitable for handling parallel, plane and non-conical concrete elements, such as border stones, slabs, block steps and kerb stones.**

- The compact and lightweight EASYGRIP EXG can be attached to a carrier (loading crane, mini-excavator etc.) by means of hoisting belts or chains. Thus just one person is able to operate the grab mechanically.
- The grab comes with two handles and thus is also suitable for a two-man manual operation.

**EXG-MAXI:** With larger gripping range and height-adjustable support as standard.

EXG

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>EXG</b>	235 (9¼)	145 – 195 (5¾ – 7¾)	12.4 (25)	0 – 300 (0 – 11¾)	550 (1,210)	<b>53100370</b>
<b>EXG-MAXI</b>	235 (9¼)	165 – 215 (6½ – 8½)	16 (35)	0 – 400 (0 – 15¾)	600 (1,320)	<b>53100392</b>



TG-5/12

## TWISTGRIP TG-5/12 Kerb and Strip Stone handle

**Powerful grip with a simple turn of the handle.**

Basic model TG-5/12: virtually provides kerb and border stones with a "handle".

- Can be set to any grip width from 5 to 12 cm in seconds, without using a tool.
- It takes only 2.5 turns to achieve a full working load limit.
- Compact dimensions, low machine weight.
- Non-damaging grip thanks to highly wear-resistant, replaceable rubber elements.



TG-5/12 with TG-HGV

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>TG-5/12</b>	90 (3½)	60 (2¼)	3 (7)	50 – 120 (2 – 4¾)	80 (175)	<b>53200102</b>

### Accessories:

**TG-HGV:** Handle extension for retro-fitting. Depending on the situation, achieves even better ergonomic position. Light as a feather, thanks to aluminium and wood.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>TG-HGV</b>	Handle extension	0.41 (1)	<b>43200108</b>





## Concrete Step Handles TSV

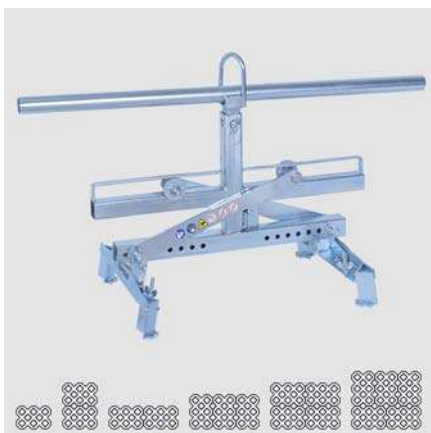
Universal handles due to a large adjustable opening range. Suitable for steps, kerbs, L-stones, etc.

- Lifting eye for attaching to crane hook.
- Automatic release for fully automatic switch-over from "full" to "empty".
- Carrying handle.
- Carrying handle turnable by 90° according to the working space.
- Exchangeable rubber grippers.
- Galvanised finish.

TSV

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
TSV	200 (7¾)	125 (5)	19 (40)	70 – 500 (2¾ – 19¾)	250 (550)	53100435

6



## Turf Stone Laying Clamp RGV-9/9

Laying Clamp for Turf Stones, versatile due to exchangeable adaptors.

RGV-9/9 fits Turf Stones 60 x 40 cm, hole dim. 9 x 9 cm (3½ x 3½ inch).

Installs 1 to 5 units at once.

Other adaptors on request.

- Automatic release for fully automatic switch-over from "full" to "empty".
- Lifting eye, handle, turnable by 90°.
- Screwable adaptors – not compatible with TSV.
- Durable surface protection by galvanizing.

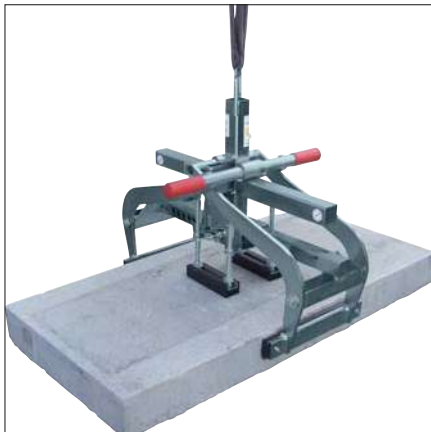
RGV-9/9

Type	Description	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/ WLL kg (lbs)	Order-Number
RGV-9/9	Complete unit, RGV+RGV-AS-9/9	20 – 60 (¾ – 2¼)	21 (45)	300 – 500 (11¾ – 19¾)	250 (550)	53100436
RGV	Basic unit, without adaptors		17 (35)	70 – 500 (2¾ – 19¾)	250 (550)	43101738

### Accessories:

Type	Description	Inside Height mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
RGV-AS-9/9	Adaptors for 9 x 9 cm (3½ x 3½ inch)	20 – 60 (¾ – 2¼)	5 (10)	250 (550)	43101153
RGV-UA	Universal adapter for hole dimensions 150 / 200 / 256 / 300 / 331 / 400 mm 6 / 7¾ / 10 / 11¾ / 13 / 15¾ inch	25 – 50 (1 – 2)	6.8 (15)	250 (550)	43101730

Other adapter sets on request.



TSZ-UNI with HVA-FTZ/TSZ



TSZ-UNI-WB-SQ

## Concrete Step Handles TSZ

**Suitable for handling steps, kerb stones etc. in conjunction with a lifting device.**

- Easily adjustable opening width by means of a spring-loaded bolt.
- Considerable inside height. Conical kerb stones are also gripped securely, as the gripper has an inside height of 185 mm (7¼ inch) thus being able to grip underneath the conical form.
- Lifting eye for attaching to crane hook.
- Automatic release for fully automatic switch-over from "full" to "empty".
- Exchangeable profiled rubber seals.
- Galvanised finish.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>TSZ-UNI</b>	350 (13¾)	185 (7¼)	32 (70)	50 – 600 (2 – 23½)	600 (1,320)	<b>53100338</b>
<b>TSZ-MAXI</b>	350 (13¾)	185 (7¼)	35 (75)	850 – 1,100 (33½ – 43¼)	600 (1,320)	<b>53100364</b>

## Accessories

**TSZ-UNI-WB-SQ:** Special steelfinger grippers allow for safe installation of roughly-cut ashlar rocks. The steel-finger grippers can be screwed on the clamp in just a few simple steps for (all TSZ-UNI built in or after 2009, order number 53100338).

**TSZ-UNI-ET:** Fork sleeve with lifting eye and manual turning device, engaging every 90°. Thus the TSZ-UNI can be picked-up with the fork lift truck tines.

**Adjustable Height Stop HVA-FTZ/TSZ:** for all versions of FTZ-UNI/MAXI/MULTI and TSZ-UNI. Adjustable range TSZ-UNI/MAXI approx. 55 – 140 mm (2¼ – 5½ inch). Adjustable range FTZ-UNI/MAXI-25 and FTZ-UNI/MULTI-15 approx. 120 – 255 mm (4¾ – 10 inch).

FTZ-UNI-50 approx. 55 – 155 mm (2¼ – 6¼ inch). FTZ-MAXI-50 approx. 55 – 195 mm (2¼ – 7¾ inch).

Type	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>TSZ-UNI-WB-SQ</b>	210 (8¼)	5.58 (10)	50 – 550 (2 – 21¾)	600 (1,320)	<b>43101384</b>
<b>TSZ-UNI-ET</b>		25 (55)		600 (1,320)	<b>43101130</b>
<b>Adjustable Height Stop HVA-FTZ/TSZ</b>		2.5 (6)			<b>43100867</b>



FTZ-UNI-15



FTZ-MAXI-25

## Grab for Prefabricated Concrete Products FTZ

**FTZ-I:** special compact clamp for laying heavy granit kerbs.

**FTZ-BB:** designed kerb stones with high concave section for bus stops („Kassel Kerb“).

**FTZ-UNI:** Universal clamp for all kind of precast elements.

**FTZ-MAXI:** As FTZ-UNI but with a very large gripping range.

- Gripping width adjustment by spring loaded bolt. Bolt can not get lost.
- Suspension bolt for lifting device.
- Automatic release for fully automatic switch over from „full“ to „empty“.
- Exchangeable rubber grippers.
- With handles to guide the grab.
- Durable surface protection by galvanizing.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>FTZ-I</b>	420 (16½)	170 (6¾)	55 (120)	50 – 520 (2 – 20½)	900 (1,980)	<b>53100120</b>
<b>FTZ-BB</b>	420 (16½)	290 (11½)	60 (130)	50 – 480 (2 – 19)	900 (1,980)	<b>53100202</b>
<b>FTZ-UNI-15</b>	420 (16½)	255 (10)	88 (195)	0 – 750 (0 – 29½)	1,500 (3,300)	<b>53100256</b>
<b>FTZ-UNI-25</b>	420 (16½)	255 (10)	119 (260)	0 – 750 (0 – 29½)	2,500 (5,500)	<b>53100313</b>
<b>FTZ-MAXI-25</b>	420 (16½)	255 (10)	132 (290)	200 – 1,200 (7¾ – 47¼)	2,500 (5,500)	<b>53100344</b>
<b>FTZ-UNI-50</b>	720 (28¾)	200 (7¾)	245 (540)	0 – 850 (0 – 33½)	5,000 (11,000)	<b>53100362</b>
<b>FTZ-MAXI-50</b>	720 (28¾)	240 (9½)	260 (570)	400 – 1,250 (15¾ – 49¼)	5,000 (11,000)	<b>53100363</b>

### Accessories:

**Adapter for Kassel Kerb Stone A-FTZ-KB:** for FTZ-UNI-15 to extend gripping depth on one side to 290 mm (11½ inch).

**Adjustable Height Stop HVA-FTZ/TSZ:** for all versions of FTZ-UNI/MAXI/MULTI and TSZ-UNI. Adjustable range TSZ-UNI/MAXI approx. 55 – 140 mm (2¼ – 5½ inch). Adjustable range FTZ-UNI/MAXI-25 and FTZ-UNI/MULTI-15 approx. 120 – 255 mm (4¾ – 10 inch).

FTZ-UNI-50 approx. 55 – 155 mm (2¼ – 6¼ inch). FTZ-MAXI-50 approx. 55 – 195 mm (2¼ – 7¾ inch).

Type	Dead Weight kg (lbs)	Order-Number
<b>Adapter for Kassel Kerb Stone A-FTZ-KB</b>	6.9 (15)	<b>43100575</b>
<b>Adjustable Height Stop HVA-FTZ/TSZ</b>	2.5 (6)	<b>43100867</b>



FTZ-MULTI-15: top with FTZ-MULTI-15-WB-G-120,  
bottom with FTZ-MULTI-15-WB-SQ

## Grab for Prefabricated Concrete Products FTZ-MULTI

**Mechanical grab. Appropriate clamp configurations for versatile applications from a modular construction system.  
Same features as per FTZ-I/UNI.**

FTZ-MULTI-15: Basic unit without grippers.

- Extraordinary large gripping range, thus suitable for gripping nearly all kind of standard concrete elements and natural stones.
- The individual modules are available separately and hence a huge range of applications can be covered at a reasonable price.
- Durable surface protection by galvanizing.

6

Type	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>FTZ-MULTI-15 Basic Device</b>	98 (215)	1,500 (3,300)	<b>53100348</b>

### Accessories:

**FTZ-MULTI-15-WB-G-42:** Large gripping range, short rubber grippers - preferably suitable for handling of single elements.

**FTZ-MULTI-15-WB-G-120:** Large gripping range, large rubber grippers - preferably suitable for handling offull layers, such as one layer of kerb stones.

**FTZ-MULTI-15-WB-SQ:** Special interlocking steelfinger grippers allow for safe installation of roughly-cut ashlar rocks.

**Adjustable Height Stop HVA-FTZ/TSZ:** for all versions of FTZ-UNI/MAXI/MULTI and TSZ-UNI. Adjustable range TSZ-UNI/MAXI approx. 55 – 140 mm (2¼ – 5½ inch). Adjustable range FTZ-UNI/MAXI-25 and FTZ-UNI/MULTI-15 approx. 120 – 255 mm (4¾ – 10 inch).

FTZ-UNI-50 approx. 55 – 155 mm (2¼ – 6¼ inch). FTZ-MAXI-50 approx. 55 – 195 mm (2¼ – 7¾ inch).

Type	Description	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Order-Number
<b>FTZ-MULTI-15-WB-G-42</b>	(pair)	420 (16½)	255 (10)	15.12 (35)	200 – 1,250 (7¾ – 49¼)	<b>43100942</b>
<b>FTZ-MULTI-15-WB-G-120</b>	(pair)	1,200 (47¼)	255 (10)	46 (100)	200 – 1,250 (7¾ – 49¼)	<b>43100943</b>
<b>FTZ-MULTI-15-WB-SQ</b>	(pair)		300 (11¾)	33 (75)	200 – 1,200 (7¾ – 47¼)	<b>43100941</b>
<b>Adjustable Height Stop HVA-FTZ/TSZ</b>				2.5 (6)		<b>43100867</b>



FTZ-MULTI-15-D with FTZ-MULTI-15-WB-G-42

## Grab for Prefabricated Concrete Products FTZ-MULTI-D

### Modularly designed grab – with larger inside height.

A single clamp top with screw-on grippers for the broadest range of tasks. Maximum application options due to large gripping range with low acquisition costs.

- The FTZ-MULTI-15-D basic device can be fitted with the same grippers as are suitable for the FTZ-MULTI-15.
- Durable surface protection by galvanizing.

Type	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>FTZ-MULTI-15-D Basic Device</b>	140 (310)	1,500 (3,300)	<b>53100393</b>

### Accessories:

**FTZ-MULTI-15-WB-G-42:** Large gripping range, short rubber grippers - preferably suitable for handling of single elements.

**FTZ-MULTI-15-WB-G-120:** Large gripping range, large rubber grippers - preferably suitable for handling of full layers, such as one layer of kerb stones.

**FTZ-MULTI-15-WB-SQ:** Special interlocking steelfinger grippers allow for safe installation of roughly-cut ashlar rocks.

Type	Description	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Order-Number
<b>FTZ-MULTI-15-WB-G-42</b>	(pair)	420 (16½)	540 (21¼)	15.12 (35)	0 – 750 (0 – 29½)	<b>43100942</b>
<b>FTZ-MULTI-15-WB-G-120</b>	(pair)	1,200 (47¼)	540 (21¼)	46 (100)	0 – 750 (0 – 29½)	<b>43100943</b>
<b>FTZ-MULTI-15-WB-SQ</b>	(pair)		585 (23)	33 (75)	0 – 700 (0 – 27½)	<b>43100941</b>
<b>Adjustable Height Stop HVA-FTZ-MULTI-D</b>				5.5 (10)		<b>43101348</b>



WEZ

## Grab for Angular Concrete Products WEZ

### Specially developed for handling L-stones and similar products.

The lifting eye can be adjusted to the center of gravity of all prevalent products being lifted to let it hang vertically.

- Lifting eye for attaching to crane hook.
- Highly durable and exchangeable rubber grippers.
- Automatic release for the fully automatic change over from "full" to "empty".
- Leaves no black marks.
- Durable surface protection by galvanizing.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>WEZ-2</b>	220 (8¾)	480 (19)	55 (120)	50 – 250 (2 – 9¾)	2,000 (4,400)	<b>53100347</b>
<b>WEZ-6</b>	440 (17¼)	630 (24¾)	160 (355)	50 – 300 (2 – 11¾)	6,000 (13,200)	<b>53100375</b>





FVZ-UNI

## Mechanical Boulder Grab FVZ-UNI

Suitable for handling boulders. Stones of almost all shapes can be lifted and laid to the exact millimetre.

- With chains.
- With lifting eye for attaching to crane hook.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>FVZ-UNI</b>	99 (220)	0 – 950 (0 – 37½)	1,500 (3,300)	<b>53100272</b>



H-FVZ-UNI

## Manual Boulder Grab H-FVZ-UNI

For smaller boulders which can be carried by two men.

- Additionally equipped with a ring-eyelet to be hooked onto any kind of lifting device, regarding the admissible working load limit.
- Equipped with a simple and fast gripping range adjustment.
- Durable surface protection by galvanizing.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>H-FVZ-UNI</b>	18 (40)	0 – 600 (0 – 23½)	200 (440)	<b>53200086</b>



FZ

## Flat Grab FZ

**For transport of slabs.**

Narrow grippers turn standing slabs or erect laying slabs.

No problem to grip even tight standing slabs.

- No damage to the surface of the slabs due to gentle handling with rubber grippers.
- High security by enormous transmission of 5:1.
- A spring tension prevents from unintentional slipping off the clamp.
- Lifting band instead of chain or rope: low dead weight, no squeezing, no hurts.
- Suitable for nearly all kinds of material.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
FZ	8 (20)	0 – 60 (0 – 2¼)	800 (1,760)	53100278

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PVZ-V

## Column Handles PVZ-V

**Especially suitable for the carrying and laying of round and rectangular concrete or wooden columns.**

- Clamping is independent of the length.
- Constructed in such a way that the columns can be set close enough to touch one another.
- The PVZ-V is an adjustable model.
- Galvanised finish.

Type	Length of Gripper mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
PVZ-V	80 (3¼)	8 (20)	100 – 305 (4 – 12)	150 (330)	53200031



SLS-8/20-G-VA

## Stone Pillar Grab SLS-8/20-G-VA

Stone pillars and palisades, mainly made of attractive natural stone such as granite, become increasingly popular in horticulture and landscaping. For efficient installation the handy stone pillar grab SLS-8/20-G-VA was designed.

Suspended to a lifting device, such as a mini excavator, the horizontal pillar is clamped through a crank handle. The gripping force automatically increases while lifting and the pillar can be raised safely and installed easily.

After installation the crank is to be released.

- The lifting eye can be adjusted to the center of gravity of the product being lifted to let it hang vertically.
- Double-sided, non-marking rubber grippers, thus no claw marks or scratches on pillars and palisades.
- Durable surface protection by galvanizing.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>SLS-8/20-G-VA</b>	12.5 (30)	80 – 200 (3¼ – 7¾)	300 (660)	<b>53100409</b>

### Accessories:

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>GB-SLS</b>	Rubber grippers to retrofit stone pillar grab SLS-10/20 (Order-Nr. 53100321) equipped as standard with steel pads. Rubber grippers will not cause damage to the stone elements – gripping range is then reduced from 80 to 180 mm (3¼ to 7 inch).	0.6 (1)	<b>43101415</b>



FSZ-M

## Hollow Slope Block Handles FSZ-M

Especially suitable for the handling of hollow slope blocks and similar elements which can be lifted by hand.

- Grips from the inside.
- Large adjustable gripping range to match all current hollow slope blocks.
- With lifting eye and handle.
- Automatic release for fully automatic switch-over from “full” to “empty”.
- Galvanised finish.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>FSZ-M</b>	90 (3½)	150 (6)	16 (35)	180 – 580 (7 – 22¾)	250 (550)	<b>53200002</b>



EL-SIMPLE

## EASYLIFT EL-SIMPLE Slab Handling Device

The "packhorse" on 2 wheels for easy slab laying: small, light and exceptionally gentle on the back.

- User-friendly and handy device for seamless slab laying.
- For optimal posture when working. Through the lever effect, even heavy slabs can be laid without great effort.
- The special wheel design makes the EASYLIFT EL-SIMPLE extremely manoeuvrable.
- Solid design, indestructible.
- Collapsible, thus space-saving in transit.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
EL-SIMPLE	11.7 (25)	300 – 600 (11¾ – 23½)	80 (175)	51100017

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RF-H

## GUTTERFIX RF-H Screeding System for lean concrete

The GUTTER FIX RF-H is a professional device for road construction.

In one working step large paving blocks are installed in lean concrete to form this gutter. No more time consuming screeding work!

- Time saving due to easy handling.
- Level height from kerb surface continuously adjustable from 70 – 300 mm (2¾ – 11¾ inch).
- The RF-H can be pushed by one operator, if required a second operator can assist in pulling with an integrated standard hooking point for shovel.
- The adjustment of the ground level and the width of the kerb is done simply and quickly by using clamp bolts (no tools are necessary).
- Large rollers which are touching the top surface and the rear surface can be easily pushed.
- The plowshare is made of extremely high wear-resistant V2A stainless steel.

Type	Working Width mm (in)	Width mm (in)	Dead Weight kg (lbs)	Order-Number
RF-H	500 (19¾)	120 – 200 (4¾ – 7¾)	13 (30)	51000064



GR-150

## Slipform for Concrete Backfill of Precast Kerbs GR-150

When installing kerb stones it is mandatory to get them backfilled with concrete formwork as per DIN 18318.

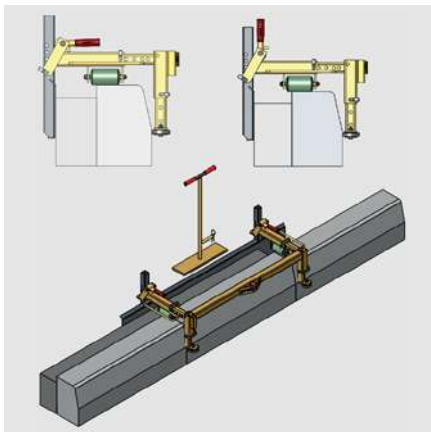
To avoid time-consuming and expensive assembly of timber formwork at the construction site we developed a slipform with lots of clever features.

The slipform GR-150 adjusts to all prevalent precast kerb dimensions. Effortless sliding due to rollers equipped with ball-bearings.

Within seconds the slipform plate is removed from the formed concrete and put into working position again by 2 eccentric levers.

To compact the concrete backfill – according to DIN specifications – the GR-150 comes with a hand tamper including fastener.

- Applicable at not too narrow curves as well.
- Significant saving of material to some extent compared to conventional concrete liner.
- Optional add-on: Link rod for slipform KS-GR-150. This connection rod links up two or more slipforms for formwork building.
- Durable surface protection by galvanizing.



GR-150

Type	Working Width mm (in)	Width mm (in)	Dead Weight kg (lbs)	Length mm (in)	Order-Number
GR-150	150 (6)	80 – 200 (3¼ – 7¾)	32 (70)	1,500 (59)	51000066

## Accessories

Type	Description	Dead Weight kg (lbs)	Order-Number
KS-GR-150	Connection rod link	1.3 (3)	41000241





KKV-200

## Cable Channel Clamp KKV-200

For cable channels II-IF, III-IF, IIIa-IF, IV-IF.

- Fully mechanical grip which means it can be used at any carrier.
- Grips from the inside, so that it is extremely suitable for small spaces.
- Exchangeable steel grippers as gripping elements.
- Lifting eye for crane hook.
- Automatic release for the fully automatic switch over from "full" to "empty".
- Durable surface protection by galvanizing.
- Basic unit without steel grippers.
- Other adapter sets on request.

Type	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
KKV-200	50 (110)	500 (1,100)	53100423

### Accessories:

**KKV-A:** Exchangeable adapter sets as gripping elements. Steel brackets for extra large cable channels.

Type	Description	Dead Weight kg (lbs)	Gripping Range mm (in)	Order-Number
KKV-A-185/210	Steel brackets	5 (10)	185 – 210 (7¼ – 8¼)	43101527
KKV-A-205/230	Steel brackets	5 (10)	205 – 230 (8 – 9)	43101538
KKV-A-215/235	Steel brackets	5.0 (10)	215 – 235 (8½ – 9¼)	43100828
KKV-A-220/245	Steel brackets	5 (10)	220 – 245 (8¾ – 9¾)	43101575
KKV-A-255/280	Steel brackets	5.7 (15)	255 – 280 (10 – 11)	43100848
KKV-A-290/315	Steel brackets	3.5 (8)	290 – 315 (11½ – 12½)	43100634
KKV-A-330/355	Steel brackets	3.5 (8)	330 – 355 (13 – 14)	43100652
KKV-A-355/380	Steel brackets	3.6 (8)	355 – 380 (14 – 15)	43101296
KKV-A-365/390	Steel brackets	3.7 (8)	365 – 390 (14¼ – 15¼)	43100904
KKV-A-380/405	Steel brackets	4 (9)	380 – 405 (15 – 16)	43101297
KKV-A-390/415	Steel brackets	4 (9)	390 – 415 (15¼ – 16¼)	43100696
KKV-A-400/425	Steel brackets	4 (9)	400 – 425 (15¾ – 16¾)	43100757
KKV-A-410/435	Steel brackets	4.2 (9)	410 – 435 (16¼ – 17¼)	43100653
KKV-A-440/465	Steel brackets	4.4 (10)	440 – 465 (17¼ – 18¼)	43100749
KKV-A-470/495	Steel brackets	4.4 (10)	470 – 495 (18½ – 19½)	43100625
KKV-A-490/515	Steel brackets	4.8 (10)	490 – 515 (19¼ – 20¼)	43101033
KKV-A-520/545	Steel brackets	5.3 (10)	520 – 545 (20½ – 21½)	43100646
KKV-A-540/565	Steel brackets	5.5 (10)	540 – 565 (21¼ – 22¼)	43100654
KKV-A-575/600	Steel brackets	5.5 (10)	575 – 600 (22¾ – 23½)	43100633
KKV-A-590/615	Steel brackets	5.7 (15)	590 – 615 (23¼ – 24¼)	43101274
KKV-A-610/635	Steel brackets	5.8 (15)	610 – 635 (24 – 25)	43101381
KKV-A-625/650	Steel brackets	5.9 (15)	625 – 635 (24½ – 25)	43101247
KKV-A-660/685	Steel brackets	6.3 (15)	660 – 685 (26 – 27)	43100655
KKV-A-750/775	Steel brackets	7.1 (15)	750 – 775 (29½ – 30½)	43100661



KKV-8/14

## Cable Channel Clamp KKV-8/14

The compact tool for installing cable ducts of sizes I – IF.

Acts internally and purely mechanically.

- Equipped with carrying handle and suspension eye.
- Carrying handle can be mounted in 90° increments.
- Gripping jaws are fitted with replaceable rubber-metal rails.
- Durable surface protection by galvanizing.

Type	Length of Gripper mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
KKV-8/14	270 (10¾)	12 (25)	80 – 140 (3¼ – 5½)	100 (220)	53100061



KKV-20/30

## Cable Channel Clamp KKV-20/30

The compact tool for moving cable channels with a clear width of 20 – 30 cm (7¾ – 11¾ inch).

Acts internally and purely mechanically.

- Equipped with a suspension eye.
- Gripping jaws are fitted with replaceable rubber-metal rails.
- Galvanised.

Type	Length of Gripper mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
KKV-20/30	120 (4¾)	5.5 (10)	200 – 300 (7¾ – 11¾)	150 (330)	53100420



VZ-H-UNI-KV Full version



VZ-H-UNI-KV + VZ-H-UNI-FG



VZ-H-UNI-KV + VZ-H-UNI-RG

## Hydraulic Installation Clamp VZ-H-UNI

A huge variety of building elements for road construction, civil engineering, horticulture and landscaping are handled and installed with this multifunctional clamp: precast kerb stones, granite kerb stones, slabs, L-shaped retaining walls, wall elements, natural stone blocks, grass stones etc.

Infinitely adjustable – without changing any clamp settings, products within a gripping range from 40 – 1,500 mm (1½ – 59 inch) are picked-up and installed.

Standard grippers are replaced with special rock grippers VZ-H-UNI-FG for installation of wall elements, rocks and boulders.

Add-on: the multifunctional gripping adapter VZ-H-UNI-RG for accurate installation of up to 6 grass pavers (according to the size of layer) in one go. The adapter can be reversed – thus bulky and large-seized slabs are installed by steel finger grippers with millimeter accuracy.

### Scope of delivery:

**VZ-H-UNI-KV Full version:** comes with 1 set of rubber grippers and 1 set of steel finger grippers, clamping unit VZ-H-UNI, continuous hydraulic rotator, universal excavator suspension and set of hydraulic hoses (carrier has to provide 2 separate hydraulic circuits for operation of this full version).

**VZ-H-UNI-FG:** Standard grippers are replaced with special rock grippers VZ-H-UNI-FG for installation of wall elements, rocks and boulders.

**VZ-H-UNI-RG:** Add-on: the multifunctional gripping adapter VZ-H-UNI-RG for accurate installation of up to 6 grass pavers (according to the size of layer) in one go. The adapter can be reversed – thus bulky and large-seized slabs are installed by steel finger grippers with millimeter accuracy.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>VZ-H-UNI-KV Full version</b>	100 (4)	67 / 128 (2¾ / 5)	170 (375)	45 – 1,560 (1¾ – 61½)	500 (1,100)	<b>51600031-002</b>

## Accessories:

Type	Description	Width mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>VZ-H-UNI-FG</b>	Rock grippers (in pairs)	1,750 (69)	25 (55)	500 (1,100)	<b>41600160</b>
<b>VZ-H-UNI-RG</b>	Gripping adapter for grass stones and large-seized slabs (in pairs)		29 (65)	500 (1,100)	<b>41600176</b>
<b>VZ-H-UNI-GBL</b>	Rubber gripper with larger inside height		4.5 (10)	500 (1,100)	<b>41600151</b>



VZ-HS-50/150 Basic unit

## Hydraulic Kerb Stone Laying Clamp VZ-HS-50/150

With this universal clamp heavy and different sized kerbstones (granite and concrete) can be transported and installed safely and efficiently.

Fits all kind of carries, supplying one hydraulic circuit.

Incl. joint plate for mounting a hydraulic rotator or quick change device, Rubber protected height stop, Steel finger grippers.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>VZ-HS-50/150 Basic unit</b>	100 (4)	60 / 120 (2¼ / 4¾)	75 (165)	465 – 1,465 (18¼ – 57¾)	400 (880)	<b>51600014</b>

## Accessories:

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>Rotator Ferrari FR-15</b>		10 (22)	<b>22500039</b>
<b>Adapter between UBA and Rotator</b>		1.4 (3)	<b>40110270</b>
<b>Bypass restrictor</b>	for operation w/VM-401/301/203/204	1 (2)	<b>41900080</b>
<b>Bypass restrictor</b>	for operation w/excavator	1 (2)	<b>41900101</b>



BSZ-KH-6.0

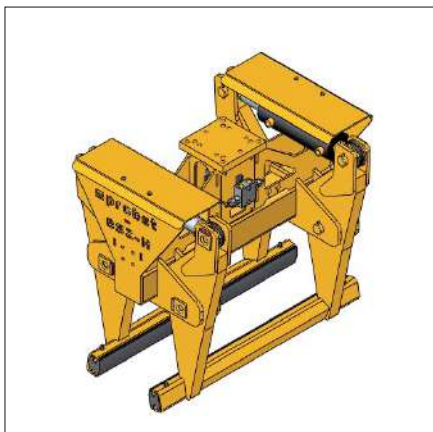
## Concrete Highway Divider Clamp BSZ-KH-6.0

With this mechanical grab barrier walls can be gripped absolutely safe without leaving any marks on the concrete elements.

Even densely stacked asymmetrically elements can be lifted and installed easily due to the slim design of gripper arms. Thus more barrier elements can be loaded and transported on the truck.

- High rationalisation of staff costs.
- Rapid repetitive sequences.
- Lifting eye for attaching to crane hook.
- Automatic release for the fully automatic switch over from "full" to "empty".
- Leaves no black marks.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>BSZ-KH-6.0</b>	460 (1,010)	150 – 210 (6 – 8¼)	6,000 (13,200)	<b>53100411</b>



BSZ-H-5.1

## Hydraulic Concrete Highway Divider Clamp BSZ-H

Suitable for gripping and transporting single-sided and double-sided barrier walls of the type "New Jersey" in connection with any carrier machine such as diggers or truck loading cranes.

- Slim design for picking up closely arranged elements.
- Equipped with a hydraulic accumulator for perfectly reliable gripping.

Type	Description	Dead Weight kg (lbs)	Hydraulic Connection Volumetric Flow l/min (gpm)	Hydraulic Connection Pressure bar (psi)	Hydraulic Connection Backflow Pressure, max bar (psi)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>BSZ-H-2.0</b>	DB 50 + DB 65 S	235 (520)	25 – 40 (7 – 10.57)	180 – 210 (2,611 – 3,046)	5 (73)	2,000 (4,400)	<b>56400003</b>
<b>BSZ-H-5.1</b>	DB 80, DB 80 AS, DB 80 AS-A, DB 80 AS-E, DB 80 AS-F, DB 80 AS-R, DB 80 E, DB 80 F, DB 100, DB 100 AS-R, DB 100 S	400 (880)	25 – 40 (7 – 10.57)	180 – 210 (2,611 – 3,046)	5 (73)	5,100 (11,200)	<b>56400002</b>

The use of additional protection elements must be tested, and this can be requested.





FTZ-GBA

## Grab for Prefabricated Concrete Products FTZ-GBA

With the FTZ-GBA grab for prefabricated products, you can move special protective wall elements quickly and effectively with parallel or specially formed side faces.

Protective wall elements can be moved with conically tapering side walls only to a limited extent and after individual approval.

Hydraulic versions are available on request.

- Cost savings through short cycle times.
- Suspension bolt for lifting device.
- Automatic release for fully automatic switch over from „full“ to „empty“.
- Exchangeable rubber grippers (only FTZ-GBA).
- Durable surface protection by galvanizing.



FTZ-GBA-S

**FTZ-GBA-S:** Designed as FTZ-GBA but specific design principally for Swedish guide wall elements GPLINK 1.5 and GPLINK 2.0. Equipped with interlocking steel profile clamp.

Hydraulic versions are available on request.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>FTZ-GBA</b>	1,200 (47¼)	255 (10)	120 (265)	150 (6)	2,600 (5,700)	<b>53100356</b>
<b>FTZ-GBA-S</b>	1,200 (47¼)	295 (11½)	119 (260)	240 (9½)	2,900 (6,400)	<b>53100356-001</b>



RVD-4,5-ECO

## Concrete Pipe Lifter RVD-4,5-ECO

**The universal installation device for unloading, transport and installation of steel reinforced concrete pipes.**

It is not necessary to loop the tubes with belts or chains, as the mechanical clamping mechanism prevents the tubes from slipping off.

The excavator driver positions the spigot end of the pipe to be installed with the pipe installation mandrel on the bell end of the pipe already in the trench. The pipes are then joined together with the relevant force.

- It is possible to mount an additional rotator or tilt rotator. This makes it even more flexible.
- Revised, compact design.
- Mandrel with plastic plate on the underside to gently push the pipe into the correct gap after installation.
- Increased working load limit.
- Easier pipe handling in the trench lining thanks to an optimised mandrel (compact dimensions).
- With fork sleeves for transportation with fork arms.
- Flexible: The pipe lifter RVD-4,5-ECO can be simply attached to any excavator via the integrated, universal flange plate (not included in scope of delivery), using a quick-hitch coupling.
- Simple to use: autonomous, simple pick-up of the pipe lifter through the digger driver, requires no mounting procedure, short training time for employees.
- Safe: no personal needed for pick-up and put down the pipes, thus heavy reduction in potential hand-injuries.
- Profitable: very short payback period and excellent return on investment due to 50% saving on installation time.

Type	Diameter inside mm (in)	Dead Weight kg (lbs)	Length Stone/Element mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>RVD-4,5-ECO</b>	400 – 1,200 (15¾ – 47¼)	662 (1,460)	3,000 (118)	4,500 (9,900)	<b>44000184</b>

A minimum pipe weight of 600 kg is mandatory for proper operation of the clamp.



RG-20/85-SAFELOCK



RG-75/125-SAFELOCK



RG-100/150-SAFELOCK

## Round Grab RG-SAFELOCK

The clamping force of the claws is maintained fully in all cases, even if the carrier is operated incorrectly.

- Gripping and laying concrete pipes.
- Patented safety locking system: When lifting the product, the grab generates tension on the pipe, which is maintained even when the product is set down.
- One-man operation.
- With adjustable height supports, which can be adjusted with a scale using the external pipe diameter. This guarantees an optimum grab position.
- Slim design allows joint-sleeve pipes lying close together to be picked up onto the lorry loading area and used in very narrow trenches.
- With handles to guide the claw.
- The eye runs in a setting with 2 hanging positions. One is used for locked grabbing, the other for releasing the catch and for empty lifting. This allows operation with only one person.

**RG-20/85-SAFELOCK:** Increased grip width and increased working load limit as with RG-20/80.

Besides concrete pipes, **stoneware pipes** can also be laid.

Easy adjustment of the outer diameter by means of a scale and a central lock pin.

Rubber grippers.

Polyamide-coated height adjustment bracket.

Durable surface protection by galvanizing.

**RG-75/125-SAFELOCK:** Easy, continuous adjustment of the external diameter by means of a scale using threaded spindles. Crank included in the delivery.

Replaceable steel grab clamps with a reliable grip.

Optionally available: rubber gripper jaws to prevent surface damage.

Durable surface protection by galvanizing.

**RG-100/150-SAFELOCK:** Easy, continuous adjustment of the external diameter by means of a scale using threaded spindles. Crank included in the delivery.

Replaceable steel grab clamps with a reliable grip.

Type	Length of Gripper mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>RG-20/85-SAFELOCK</b>	420 (16½)	175 (385)	200 – 870 (7¾ – 34¼)	2,500 (5,500)	<b>54500009</b>
<b>RG-75/125-SAFELOCK</b>	440 (17¼)	370 (820)	720 – 1,280 (28¼ – 50½)	4,000 (8,800)	<b>54500005</b>
<b>RG-100/150-SAFELOCK</b>	460 (18)	425 (940)	970 – 1,530 (38¼ – 60¼)	6,000 (13,200)	<b>54500008</b>

## Accessories:

Type	Description	Dimensions L x W x H mm (in)	Dead Weight kg (lbs)	Order-Number
<b>Steelfinger gripper</b>	for RG-75/125 and RG-100/150	60 x 60 x 15 (2¼ x 2¼ x ½)	0.34 (1)	<b>34010108</b>
<b>GMT Rubber gripper, black</b>	only for RG-75/125	60 x 15 x 200 (2¼ x ½ x 7¾)		<b>43101377</b>



## Round Grab RG

Due to the ultra slim design the grab can be used in very slender trenches.

Exchangeable gripping elements to prevent concrete pipes from damage.

- With adjustable opening width by spring loaded bolts.
- With crane eye for attaching to crane hook.
- With automatic release mechanism which means no additional operating personnel are needed.
- With height adjustment bars.
- Durable surface protection by galvanizing.

**RG-8/40:** Besides concrete pipes, vitrified clay pipes can also be gripped safely.

RG-8/40



RG-20/80

Type	Length of Gripper mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>RG-8/40</b>	500 (19¾)	45 (100)	80 – 400 (3¼ – 15¾)	430 (950)	<b>54500004</b>
<b>RG-20/80</b>	420 (16½)	92 (205)	200 – 800 (7¾ – 31½)	1,500 (3,300)	<b>54500002</b>



SRG-UNI-1,5



SRG-1,5

## Manhole and Cone Chain Clamp SRG

**For transporting manhole rings and cones.**

SRG-1,5, SRG-3 and SRG-3-L suitable for manhole rings as per DIN 4034 part 2.

With Lifting Strap: SRG-UNI-1,5, SRG-UNI-3.

With High-tensile Lifting Chain: SRG-UNI-1,5-K, SRG-UNI-3-K, SRG-1,5, SRG-3, SRG-3-L.

- Manhole and Cone Chain Clamp SRG-UNI: especially easy handling and light-weight.  
Automatically adjustable clamping range of the claws to the thickness of the pipe walls.

**SRG-UNI-1,5:** for manhole rings as per DIN 4034, part 2 and cones.

**SRG-UNI-3:** for manhole rings as per DIN 4034, part 1 + 2 and cones.

Type	Number of Claws Pcs.	Diameter Nominal Diameter mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>SRG-UNI-1,5</b>	3	800 – 2,000 (31½ – 78¾)	28 (60)	40 – 120 (1½ – 4¾)	1,500 (3,300)	<b>54400015</b>
<b>SRG-UNI-1,5-K</b>	3	800 – 2,000 (31½ – 78¾)	32 (70)	40 – 120 (1½ – 4¾)	1,500 (3,300)	<b>54400018</b>
<b>SRG-UNI-3</b>	3	800 – 2,000 (31½ – 78¾)	40 (90)	60 – 180 (2¼ – 7)	3,000 (6,600)	<b>54400014</b>
<b>SRG-UNI-3-K</b>	3	800 – 2,000 (31½ – 78¾)	45 (100)	60 – 180 (2¼ – 7)	3,000 (6,600)	<b>54400019</b>
<b>SRG-1,5</b>	3	400 – 2,000 (15¾ – 78¾)	31 (70)	40 – 120 (1½ – 4¾)	1,500 (3,300)	<b>54400001</b>
<b>SRG-3</b>	3	400 – 2,000 (15¾ – 78¾)	55 (120)	50 – 180 (2 – 7)	3,000 (6,600)	<b>54400002</b>
<b>SRG-3-L</b>	3	400 – 3,000 (15¾ – 118)	58 (130)	50 – 180 (2 – 7)	3,000 (6,600)	<b>54400003</b>





SVZ-UNI-VARIO



SVZ-UNI-VARIO

## Manhole and cone installation clamp SVZ-UNI-VARIO

**With the SVZ-UNI-VARIO manhole and cone installation clamp, even cones hang on exact level. The detachment takes place via an automatic trip mechanism.**

Some sealing systems absolutely require the installation of cones in an precisely vertical position. This is possible for cones of every shape and size thanks to Integral centre of gravity adjustment. Diameter adjustable in degrees as follows: 625/700/800/1,000/1,050/1,200/1,250/1,350/1,500 mm (24½/27½/31½/39½/41¼/47¼/49¼/53¼/59 inch).

- Manhole rings and centric cones are laid horizontally without shifting the suspension point. By switching via the guides on the suspension, the excavator driver can control the automatic shift of the suspension point for laying asymmetric cones.
- Fully automatic trip mechanism for switch-over from „full“ to „empty“.
- A rearrangement of the settings is not necessary when handling manhole rings and cones, as the SVZ-UNI-VARIO has got two gripping levels.
- Universally suitable for manhole basers, rings (height 500 mm/19¾ inch or larger) and cones.
- Ultimate safety in gripping by means of self-tensioning steel claws.
- Durable surface protection by galvanizing.

Type	Diameter Nominal Diameter mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>SVZ-UNI-VARIO</b>	625 – 1,500 (24½ – 59)	148 (325)	2,500 (5,500)	<b>54000041</b>



SVZ-UNI



SVZ-UNI

## Manhole and cone installation clamp SVZ-UNI

This universal manhole and cone clamp SVZ-UNI enormously rationalizes transport and installation of manhole elements.

Especially suitable for manhole bases, rings (height 500 mm/19¾ inch or larger) and cones with inner diameters of:

**SVZ-UNI:** 625/700/800/1.000/1.050/1.200/1.250/1.350/1.500 mm.

(24½/27½/31½/39½/41¼/47¼/49¼/53¼/59 inch).

**SVZ-UNI-UK:** (725/800) 900/1.000/1.050/1.200/1.250/1.350/1.500 mm.

(28½/31½) 35½/39½/41¼/47¼/49¼/53¼/59 inch).

- With additional suspension position for a more horizontal hanging of the cones.
- An additional operator is not necessary as the driver of the lifting machine „switches“ the SVZ-UNI from gripping to releasing by a slight movement of the lifting hook.
- The settings to the required diameters of the products is done very quickly through plug bolts. A rearrangement of the settings is not necessary when handling manhole rings and cones, as the SVZ-UNI has got two gripping levels.
- Efficient and economic handling of all kinds of manhole elements.
- High tensile chain suspension with eyelet.
- Durable surface protection by galvanizing.

Type	Description	Diameter Nominal Diameter mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>SVZ-UNI</b>	Global	625 – 1,500 (24½ – 59)	103 (225)	2,500 (5,500)	<b>54000046</b>
<b>SVZ-UNI-UK</b>	Specially for UK	900 – 1,500 (35½ – 59)	96 (210)	2,500 (5,500)	<b>54000047</b>

### Accessories:

Type	Description	Diameter Nominal Diameter mm (in)	Dead Weight kg (lbs)	Order-Number
<b>SVZ adaptor set</b>	Surcharge for higher nominal width	1,800 (70¾)	25 (55)	<b>44000064</b>
<b>SVZ-UNI-AS</b>	Set of Adaptors for height support, in order to also grip rings with 250 mm height.		5.4 (10)	<b>44000079</b>



SVZ-ECO

## Manhole and cone installation clamp SVZ-ECO

The SVZ-ECO is the right choice for sole installation of manhole bases and rings (round and square) and cones or round well rings.

- Can be operated solely by the excavator driver due to integrated trip mechanism for fully automatic switching between gripping and release.
- Self-tensioning steel claws ensure secure gripping.
- Lightweight and budget-priced.
- Durable surface protection by galvanizing.

Type	Diameter Nominal Diameter mm (in) (Cover Hole 625 mm / 24¾")	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
SVZ-ECO	800 + 1,000 (31½ + 39¼)	52 (115)	1,700 (3,750)	54000032



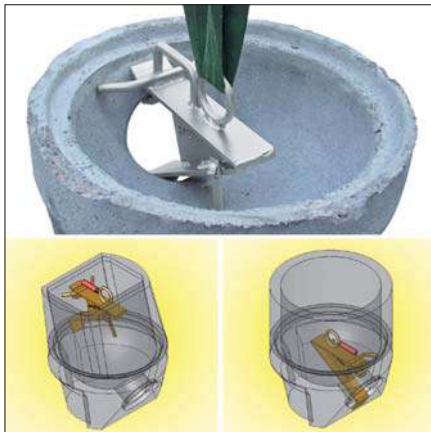
SVZ-ECO-L

## Manhole and cone installation clamp SVZ-ECO-L

Compact and extremely robust clamp for manhole rings and cones. Moreover, rectangular manholes can also be transported and installed.

- With positioning aid for quick and reliable positioning of the clamp in the manhole elements.
- Manhole elements, even cones, hang completely level due to movable suspension.
- Automatic release for fully automatic switch over from „full“ to „empty“.
- Safe gripping due to autonomously retensioning steel grip clamps.
- Durable surface protection by galvanizing.

Type	Diameter Nominal Diameter mm (in) (Cover Hole 625 mm / 24¾")	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
SVZ-ECO-L	625/700/800/900/1,000/1,050/1,200 (24¾"/27½"/31½"/35½"/39"/41"/47")	85 (185)	2,000 (4,400)	54000034



## Laying Hook for Gullies SHS

It's as simple as that - for effortless installation of bulky and heavy bottom parts and cones for gullies: no need to purchase costly special clamps, just use the ingenious laying hook SHS.

Suitable for bottom parts with drain and for cones as per DIN 4052-3.

- Safe and fast handling with any lifting device for simple installation with millimeter precision.
- Lightweight shaft element can be piled on top of the bottom part already on the pallet, thus both parts are installed together in one run.
- A tool so handy to fit into each road builders' toolbox.
- Durable surface protection by galvanizing.

SHS

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
SHS	Suitable for bottom parts with drain and for cones as per DIN 4052-3	4.8 (10)	100 (220)	54000024



## Gully Clamp SAZ-UNI

The small and light clamp for cumbersome and heavy concrete sections for road gullies.

For base and intermediate sections in accordance with DIN 4052 (550 mm/21¾ inch).

By undoing the spring bolt and turning the swivel arm, sleeve sections can also be gripped and laid (625 mm/24½ inch).

- One-man operation due to adjustable lock position in hanging eye for releasing the product.
- With oval ring, can be used as a supporting surface and handle.
- Because of the limited dead weight of only 4 kg (8.8 lbs), the clamp can also be used on small carrying devices.
- Durable surface protection by galvanizing.

SAZ-UNI

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
SAZ-UNI	4.1 (9)	550 / 625 (21¾ / 24½)	165 (365)	54000035



SRZ-M

## Manhole Frame Clamp SRZ-M

**Lightweight, efficient and profitable – Ideal for repair and maintenance of manhole frames and compensation rings.**

- Grips from the inside, with removable handles.
- Automatic release for fully-automatically switch over from „full“ to „empty“.
- With lifting eye for attaching to crane hook.
- Durable surface protection by galvanizing.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>SRZ-M</b>	20 (45)	200 – 620 (7¾ – 24½)	150 (330)	<b>54000033</b>



SRZ-KOMBI. left: Hook A, right: Hook B

## Manhole Frame Clamp SRZ-KOMBI

**A clamp for frame and cover! Easy and safe transport and installation of manhole covers in accordance with EN 124/DIN 1229.**

Both the frame and the cover can be lifted and installed safely.

The lifting eye on the shaft frame clamp is attached to the load hook on the digger/loader and placed on the manhole cover. After releasing the safety catch, the frame is lifted with the cover and placed on the shaft cone.

When the manhole cover is put down, the safety catch clicks into place by itself and the clamp opens automatically.

- By turning through 180°, the covers can also be effortlessly lifted out of the frame with the shaft frame clamp and the 2 A hooks and 2 B hooks included as standard.
- Durable surface protection by galvanizing.

Type	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>SRZ-KOMBI</b>	15 (35)	750 / 785 (29½ / 31)	200 (440)	<b>53100373</b>





SDH-H

## Hydraulic Manhole Cover Lifter SDH-H

Heavy duty professional device. Universally suitable to lift and move away all common sizes of covers.

Keys and spreader bars are not included at SDH-H-15.

**SDH-15-UK:** incl. Set of keys and spreader bars, specially for UK.

- High break-out force
- Can be taken to pieces within seconds in order to be stowed in each car boot.
- Durable surface protection by galvanizing.

Type	Working Width Hook Centres mm (in)	Working Width mm (in)	Dead Weight kg (lbs)	Height Lifting Height mm (in)	Force Pulling Force kg(daN)	Order-Number
<b>SDH-H-15</b>	260 / 950 (10¼ / 37½)	1,050 (41¼)	36 (80)	310 (12¼)	1,500	<b>54800002</b>
<b>SDH-H-15-UK</b>	260 / 950 (10¼ / 37½)	1,050 (41¼)	56 (125)	310 (12¼)	1,500	<b>54800006</b>

8



EL-SDH

## EASYLIFT EL-SDH Manhole Cover Lifter

Small and light mechanical manhole cover lifter for lifting manhole covers up to diameter 800 mm (31½ inch).

The manhole cover is lifted by tilting the EL-SDH with the handle. Optimal lifting position adjustable by chain.

Can be combined with crosspieces for lifting split covers.

The crosspiece of the EL-SDH can be pushed forward and back by approx. 120 mm (4¾ inch).

Optionally available: Permanent lifting magnet EL-SDH-LHM-300.

Key not included in the delivery. See table on next page.

- Durable surface protection by galvanizing.

Type	Working Width Hook Centres mm (in)	Dead Weight kg (lbs)	Force Pulling Force kg(daN)	Order-Number
<b>EL-SDH</b>	125 / 740 (5 / 29¼)	18 (40)	200	<b>54800010</b>

### Accessories:

**EL-SDH-LHM-300:** Permanent lifting magnet for lifting metal manhole covers. Attachment/detachment by means of a reversible lever. Mounting for attachment to EL-SDH.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>EL-SDH-LHM-300</b>	Permanent lifting magnet	11 (25)	<b>44800065</b>



## Manhole Cover Lifter accessories

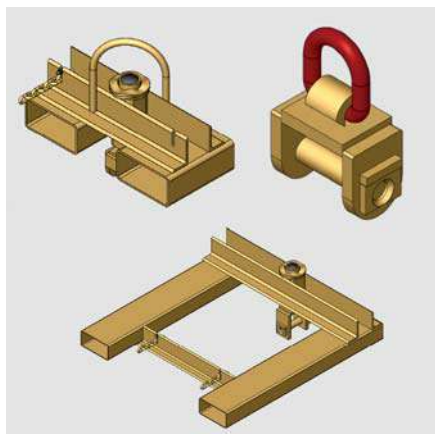
top (from left to right): SDH-Set of keys A, B, C.  
bottom: SDH-H-spreader bar small + large

Type	Description	Length mm (in)	Dead Weight kg (lbs)	Order-Number
Key	Key A		0.1 (0)	44800019
Key	Key B		0.1 (0)	44800020
Key	Key C			44800075
Spreader bar	small	435 (17)	2.5 (6)	44800008
Spreader bar	large	865 (34)	7.1 (15)	44800018
Set of keys and spreader bars UK	2 keys A, 2 keys B, 4 keys C, 1 Spreader bar small, 2 Spreader bars large		19.2 (40)	54800004
Gatic manhole key (UK)				44800069





SG – Picture as an example



top left: ET-D, top right: EH-3000, unten: ET-D/B

## Scissor Grab SG

**A mechanical grab universally suitable for use on building sites engaged in civil engineering work and paving work.**

The SG grab handles pack sizes as show in the data below without any gripping width adjustment. Safe and easy transport of non-palletized building materials such as vertically steel-strapped (each row) paving blocks, slabs, kerb stones, etc.

**SG-PGL2:** In the event of damage on the outer ends of the rubber grippers, it is also possible to replace only these end areas.

Large variable gripping range.

Fork sleeves with manual turning device ET-D (with additional lifting eye for crane hook), ET-D/B as well as EH-3000 for crane hook operation to be ordered additionally as accessories.

- Quick height adjustment.
- Automatic release for the fully automatic switch over from “full” to “empty”.
- Highly durable, exchangeable rubber bars as gripping elements.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>SG-80-MAXI-PGL2</b>	1,200 (47¼)	800 (31½)	240 (530)	700 – 1,200 (27½ – 47¼)	1,800 (3,950)	<b>53100416</b>
<b>SG-80-PGL2-A</b>	1,200 (47¼)	800 (31½)	265 (580)	400 – 1,100 (15¾ – 43¼)	1,800 (3,950)	<b>53100380-001</b>
<b>SG-80-PGL2</b>	1,200 (47¼)	800 (31½)	230 (510)	400 – 1,100 (15¾ – 43¼)	1,800 (3,950)	<b>53100380</b>
<b>SG-60-PGL2</b>	1,200 (47¼)	600 (23½)	225 (495)	400 – 1,100 (15¾ – 43¼)	1,800 (3,950)	<b>53100415</b>
<b>SG-100-PGL2</b>	1,200 (47¼)	1,000 (39¼)	380 (840)	700 – 1,200 (27½ – 47¼)	2,000 (4,400)	<b>53100284</b>

### Accessories:

**ET-D/B:** With wider distance between the sleeves and with longer sleeves, specially suitable for SG grabs.

Fork sleeves: manual turning device which engages itself every 90°. With security chain to avoid slipping.

**EH-3000:** ET-D/B with wider distance between the sleeves and with longer sleeves, specially suitable for SG grabs.

**SSN-1,5/1,3/1,0:** Security Net for operation of SG grabs in high-rise construction, is suspended underneath the load by hooking it into the handles of the SG grab.

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>ET-D</b>	With additional lifting eye for crane hook	35 (75)	2,500 (5,500)	<b>43100411</b>
<b>ET-D/B</b>	Fork sleeve with manual device engaging	50 (110)	2,500 (5,500)	<b>43100373</b>
<b>EH-3000</b>	Lifting eye for crane hook operation	4 (9)	3,000 (6,600)	<b>40110086</b>
<b>SSN-1,5/1,3/1,0</b>	For SG-60-PGL2, SG-80-PGL2, SG-80-MAXI-PGL2, SG-100-PGL2	5 (10)	2,000 (4,400)	<b>45200061</b>



KSZ-300-UNI

## Limestone Clamp KSZ-300-UNI

**Especially designed for the transport of lime-stone elements by a tower crane.**

The clamp is variably gripping all packs up to the indicated opening width safely. An adjustment of the gripping width is no longer necessary.

The security net can be hung easily underneath the load.

(Safety net also suitable for blocks with height 625 mm/24½ inch).

- Crane eye.
- Safety net.
- Semi-automatic – for manual switch over from “full” to “empty”.
- Rubber metal bars as gripping elements (grey colour – no marks left on visible brick work).

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>KSZ-300-UNI</b>	1,000 (39¼)	300 (11¾)	95 (210)	750 – 1,000 (29½ – 39¼)	1,250 (2,750)	<b>55200033</b>



DEZ-UNI

## Roofing Element Clamp DEZ-UNI

**The universal clamp for clay and concrete roof tiles.**

With only one device, two rows of clay roof tiles or three rows of concrete roof tiles in horizontal position can be transported quickly and safely on the roof.

Suitable also for large tiles.

- Security net to be hooked into the handles for guiding the clamp.
- Plastic basket to store the security net. Basket can also be used for transportation of special tile elements on the roof.
- Additional lifting point to hang the loaded clamp on an angle to position the rows of roof tiles directly on the roof. (Not suitable for steep roofs).
- Ring-eyelet for crane hook.
- Adjustable height-support.
- Automatic release for the fully automatic switch-over from “full” to “empty”.
- Exchangeable rubber grippers as gripping elements.
- Due to light weight construction and using of high-tensile steels only low dead weight. That way this sturdy steel device is more light weight than some comparable aluminium devices with the same technical specifications.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>DEZ-UNI</b>	1,140 (45)	140 / 210 (5½ / 8¼)	75 (165)	660 – 1,000 (26 – 39¼)	600 (1,320)	<b>55100034</b>

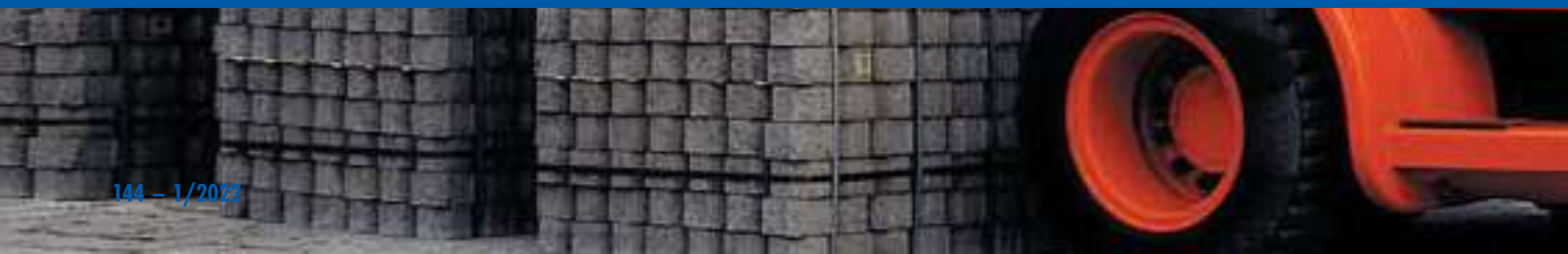






# Building Material Plants – In-Plant Handling

Speed up your material flow in the factory



### **Storage and retrieval, order picking and transport**

Speed up your material flow in the plant with our solutions for building material dealers and concrete plants. Probst offers efficient solutions, such as the hydraulic forklift grabs STAZ or the mechanical manhole ring clamps RK.

Vacuum technology is one of Probst's specialities. This technology shows its strengths especially when picking concrete products – for efficient, ergonomic work.

### **Practical solutions – individually tailored**

Apart from the broad standard range of products, our team also develops individual special solutions together with you, tailored to your challenge – with the result of making your hard work easier.

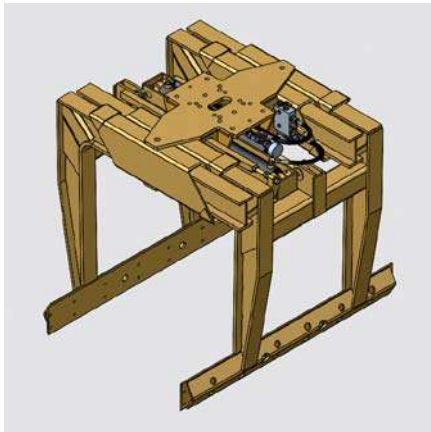








STAZ-UNI



STAZ-UNI

## Fork Lift Grab STAZ-UNI

**Specially designed for heavy duty work with fork lift trucks.**

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.
- Fully hydraulic parallel opening range. Low-maintenance steel-polyamide sliding guides.
- Manually adjustable pressure relief valve.
- Oil Pressure Gauge.
- Polyamide sliding guides come with a 5 year guarantee.

Type	Inside Height mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Gripper Base Length mm (in)	Order-Number
<b>STAZ-UNI-0700</b>	700 (27½)	500 (1,100)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	4,000 (8,800)	1,250 (49¼)	<b>57000700-1250</b>
<b>STAZ-UNI-0850</b>	850 (33½)	505 (1,110)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	4,000 (8,800)	1,250 (49¼)	<b>57000850-1250</b>
<b>STAZ-UNI-1000</b>	1,000 (39¼)	525 (1,160)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,750 (8,300)	1,250 (49¼)	<b>57001000-1250</b>
<b>STAZ-UNI-1200</b>	1,200 (47¼)	560 (1,240)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,250 (7,200)	1,250 (49¼)	<b>57001200-1250</b>
<b>STAZ-UNI-1300</b>	1,300 (51¼)	575 (1,270)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,000 (6,600)	1,250 (49¼)	<b>57001300-1250</b>
<b>STAZ-UNI-1350</b>	1,350 (53¼)	585 (1,290)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,000 (6,600)	1,250 (49¼)	<b>57001350-1250</b>
<b>STAZ-UNI-1400</b>	1,400 (55)	595 (1,310)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	2,750 (6,100)	1,250 (49¼)	<b>57001400-1250</b>
<b>STAZ-UNI-1550</b>	1,550 (61)	610 (1,350)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	2,500 (5,500)	1,250 (49¼)	<b>57001550-1250</b>





STAZ-UNI-4 + fork sleeve + pressure plates

## Fork Lift Grab STAZ-UNI-4

**Specially designed for the safe gripping of un-strapped and un-compressed stacks of multilayer production.**

The same characteristics as the STAZ-UNI but equipped with a four-sided clamping action. Because the main and the end gripping is hydraulically controlled separately, and by using pressure plates (accessory), an exact Two compression of the stacks and the elimination of any gaps are achieved.

Separate hydraulic circuits are necessary to be supplied by the fork lift truck. (Supplied without connecting hoses to the fork lift truck).

Required jaw lengths depending on the dimensions of the stone layer.

Contoured grippers for special layers on special request.

Type	Inside Height mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Opening Width Side Gripper mm (in)	Opening Width Main Gripper mm (in)	Working Load Limit/ WLL kg (lbs)	Order-Number
<b>STAZ-UNI-4-850</b>	850 (33½)	765 (1,690)	180 – 210 (2,611 – 3,046)	900 – 1,400 (35½ – 55)	550 – 1,230 (21¾ – 48½)	3,000 (6,600)	<b>57000165</b>
<b>STAZ-UNI-4-1000</b>	1,000 (39¼)	810 (1,790)	180 – 210 (2,611 – 3,046)	900 – 1,400 (35½ – 55)	550 – 1,230 (21¾ – 48½)	3,250 (7,200)	<b>57000166</b>
<b>STAZ-UNI-4-1200</b>	1,200 (47¼)	940 (2,070)	180 – 210 (2,611 – 3,046)	900 – 1,400 (35½ – 55)	550 – 1,230 (21¾ – 48½)	3,500 (7,700)	<b>57000167</b>



STAZ-SLC

## Selective Layer Clamp STAZ-SLC

**Specially designed to help select one or several layers of stones with a fork lift truck.**

Without connecting hoses to the fork lift truck, without fork sleeves and without rubber grippers, see accessories.

- Manually adjustable pressure relieve valve.
- Oil Pressure Gauge.
- Has an integrated, adjustable height stop, controlled by the gripping function, only one hydraulic circuit is necessary.
- Adjustable height stop is being controlled by a scissor system – it therefore reduces the necessary space required.
- Low maintenance Steel–Polyamide–Sliding Guide.

Type	Length of Gripper mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Opening Width Main Gripper mm (in)	Working Load Limit/ WLL kg (lbs)	Order-Number
<b>STAZ-SLC</b>	1,250 (49¼)	500 / 700 (19¾ / 27½)	310 (680)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	1,500 (3,300)	<b>57050015</b>



STAZ-DZ-II

## Double Fork Lift Grab STAZ-DZ-II

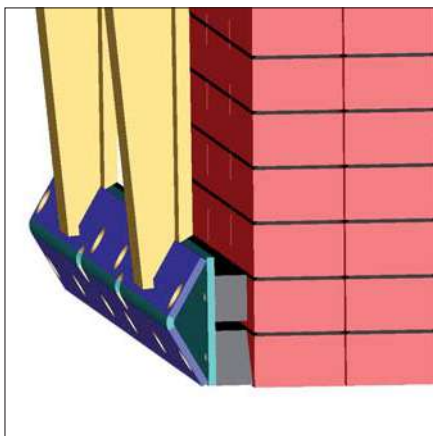
Consisting of two single clamps (see STAZ-UNI for technical data). Connected by a spreader bar. Suitable for lifting 2 stacks at the same time if they are stacked longitudinally on the conveyor belt. The same unit can be equipped with a hydraulically operated distance adjuster bar which can remove any gaps between the stacks, thus saving space in the storage area. Supplied without connecting hoses to the fork lift truck.

- Only one hydraulic circuit is needed to be supplied by means of the fork lift truck, if both clamps are operated together.
- Polyamide sliding guides come with a 5 year guarantee.

Type	Order-Number
STAZ-DZ-II	On Request

## Grippers for Fork Lift Grabs STAZ

To make the fork lift grabs as versatile as possible there are grippers available for every type of use. The following grippers are available for standard usage:



GB2

## Rubber Gripper GB2

Light-weight, suitable for all models and available in various lengths.

The gripping element consists of highly durable exchangeable rubber-metal bars screwed to a substructure. Thick rubber linings ensure a careful handling of delicate concrete products. 2 rows of rubber metal bars and a conical lower rubber surface strengthen the gripping pressure on the lowest row of blocks.

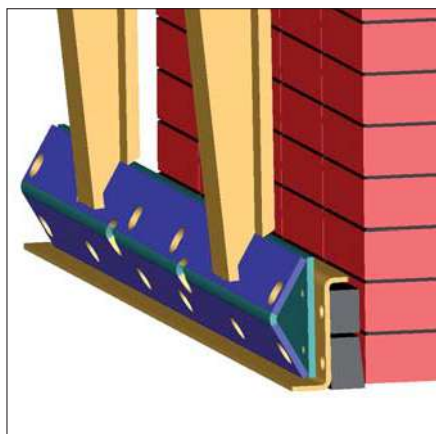
### Applications:

Stacks of large concrete elements.

Stacks of paving blocks, each row vertically steel-strapped.

Stacks of paving blocks which are either not, or only partly, vertically steel-strapped and which are produced on a single layer machine with gripping width up to 700 mm (27½ inch) and a minimum thickness of 60 mm (2½ inch). Limited use for stacks of paving blocks which are either not, or only partly, vertically steel-strapped and which are produced on a multi-layer machine, with a gripping width above 700 mm (27½ inch) and a minimum thickness of 80 mm (3¼ inch).

Type	Length of Gripper mm (in)	Dead Weight kg (lbs)	Quantity Pieces	Order-Number
GB2-0720	720 (28¼)	12.5 (30)	1	47451000-0720
GB2-0780	780 (30¾)	14 (30)	1	47451000-0780
GB2-0850	850 (33½)	15 (35)	1	47451000-0850
GB2-1000	1,000 (39¼)	16.5 (35)	1	47451000-1000
GB2-1100	1,100 (43¼)	18.5 (40)	1	47451000-1100
GB2-1200	1,200 (47¼)	20 (45)	1	47451000-1200
GB2-1250	1,250 (49¼)	21 (45)	1	47451000-1250
GB2-1300	1,300 (51¼)	22 (50)	1	47451000-1300



## Rubber gripper GB2-Z with quick change system

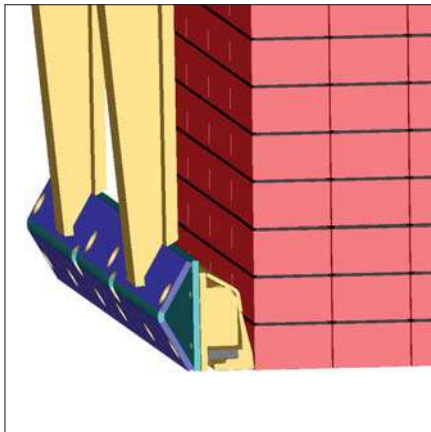
Design and utilization as described as GB2, but in this case the rubber elements are secured to a Z-shape steel carrier.

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.

GB2-Z

Type	Length of Gripper mm (in)	Dead Weight kg (lbs)	Quantity Pieces	Order-Number
<b>GB2-0720-Z</b>	720 (28¼)	15.5 (35)	1	<b>47451010-0720</b>
<b>GB2-0780-Z</b>	780 (30¾)	17 (35)	1	<b>47451010-0780</b>
<b>GB2-0850-Z</b>	850 (33½)	18 (40)	1	<b>47451010-0850</b>
<b>GB2-1000-Z</b>	1,000 (39¼)	21.5 (45)	1	<b>47451010-1000</b>
<b>GB2-1100-Z</b>	1,100 (43¼)	24 (55)	1	<b>47451010-1100</b>
<b>GB2-1200-Z</b>	1,200 (47¼)	26 (55)	1	<b>47451010-1200</b>
<b>GB2-1250-Z</b>	1,250 (49¼)	27 (60)	1	<b>47451010-1250</b>
<b>GB2-1300-Z</b>	1,300 (51¼)	28 (60)	1	<b>47451010-1300</b>



STB1-S2

## Steel Finger Gripper STB1-S2

A heavy-duty design, especially developed for fork lift grabs with extra-deep gripping for transporting not vertically steel strapped pavers.

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 (33½ inch) and a minimum block thickness of 60 mm (2½ inch).

Limited use for stacks which are either not or only partly vertically steel strapped and which are produced on a multi-layer machine with a gripping width up to 850 mm (33½ inch) and a minimum block thickness of 80 mm (3¼ inch).

- Quickly exchangeable against rubber gripper bars GB2-Z with 2 bolts, secured by bolts.
- Single spring-steel fingers are suitable for almost all block shapes which means the safe handling of most products.

Type	Length of Gripper mm (in)	Dead Weight kg (lbs)	Quantity Pieces	Order-Number
STB1-1000-S2	1,000 (39¼)	32.5 (70)	1	47451050-1000
STB1-1200-S2	1,200 (47¼)	37.5 (85)	1	47451050-1200
STB1-1250-S2	1,250 (49¼)	40 (90)	1	47451050-1250
STB1-1300-S2	1,300 (51¼)	42.5 (95)	1	47451050-1300



Pressure Plates STAZ-UNI-4

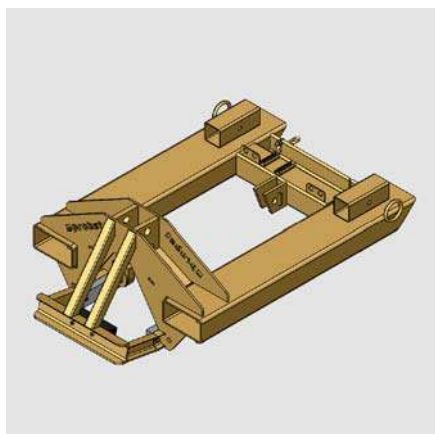
## Pressure Plates for STAZ-UNI-4

Used for compressing stacks of paving blocks (to remove any gaps between the blocks) as they are actually gripping them. Usually installed on the STAZ-UNI-4.

Solid surface, measurements adjusted to fit the gripper length and the height of the clamp. Spring-loaded, mounted on 4 suspension points.

Required jaw lengths depending on the dimensions of the stone layer.

Type	Description	Order-Number
Pressure Plates	(delivery in pairs)	47050059



ET-IS-UNI + ETA



ET-E-4

## Fork Sleeves for Forks

**For fixing onto the fork tines, with locking device on the forks.**

Attention: loss of lifting height (Clamp inside height + approx. 495 mm/19½ inch, according to the model).

Various types of fork sleeves are available, depending on the jobs in hand or the attachment device:

**Fork Sleeves ET-IS-UNI with cardanic suspension of the clamp:**

Designed for the installation of a hydraulic rotator as well as for the installation of a hydraulic swing damper (Only suitable for STAZ and STAZ-DZ-I). With security chain to avoid slipping.

**Fork Sleeves Fixation ETA for ET-IS-UNI:**

To avoid that the ET-IS uni slips off the forks. Different reach achievable by pin-adjustment.

**Fork Sleeves ET-III-UNI for single clamps:**

Screwed fix to the clamp to be picked up by the forks of the fork lift truck.

Can also be installed in a 90° turn position, due to the symmetrical flange plate.

**Fork Sleeves ET-E-4 for single clamps:**

Screwed fix to the clamp to be picked up by the forks of the fork lift truck.

As the fork sleeves can be picked up from the front and from the side it is possible to place the STAZ-UNI grippers either lengthwise or across to the fork lift.

■ Advantage: short change-over time when adding other attachments to the fork lift.

10

Type	Load Extension mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
ET-IS-UNI-506	1,000 (39¼)	140 (310)	4,000 (8,800)	47110074
ET-IS-UNI-503-US	1,000 (39¼)	150 (330)	4,000 (8,800)	47110023
ET-III-UNI for STAZ-UNI-4	700 (27½)	130 (285)	4,000 (8,800)	47110016
ET-III-UNI for STAZ-UNI	700 (27½)	130 (285)	4,000 (8,800)	47110019
ET-E-4	440 – 940 (17¼ – 37)	98 (215)	4,000 (8,800)	47110052

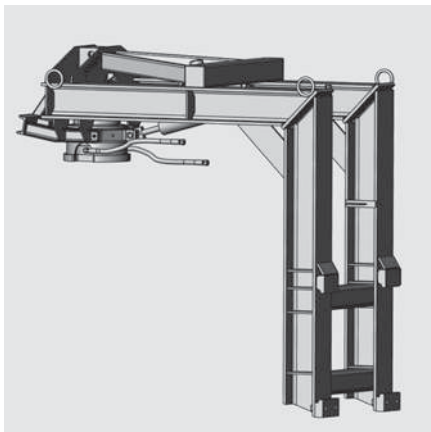
### Accessories:

Type	Description	Load Extension mm (in)	Dead Weight kg (lbs)	Order-Number
ETA	Fork Sleeves Fixation (pair)	1,000 – 1,450 (39¼ – 57)	20 (45)	47110036





KA-ECO-1200



KA

## Crane Boom KA

With a fastening for fixing directly onto the lifting plate.

Attention: Change-over time to use with forks approx. 5 minutes. Different models are available depending on the use.

- 2-arm module for good visibility for the driver.
- Hydraulic connections installed up to the end of the boom.
- Full use of the lifting height of the fork lift.

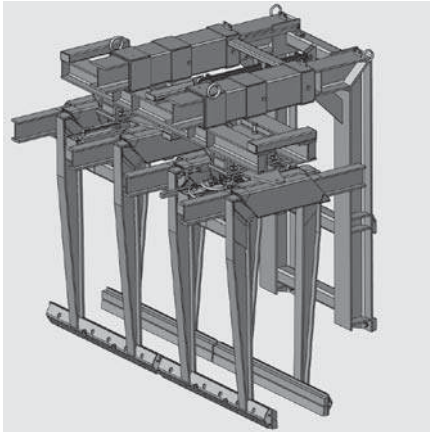
**KA-ECO-1200:** Crane Boom for single clamps: rigidly fitted to carriage plate, gripper jaw alignment longitudinal to the forklift truck. No loss of lifting height.

**KA-I:** Crane Boom for single clamps: Designed for the installation of a hydraulic rotator and also for the installation of a hydraulic swing damper (only suitable for STAZ and STAZ-DZ I).

**KA-I-S:** Crane Boom for single clamps: Designed for the installation of a hydraulic rotator and also for the installation of a hydraulic swing damper (only suitable for STAZ and STAZ-DZ I).

**KA-II-S:** Crane Boom for double clamps: Prepared to be fitted with spreader bar for double grabs.

Type	Load Extension mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>KA-ECO-1200</b>	770 (30¾)	165 (365)	3,250 (7,200)	<b>47120078</b>
<b>KA-I</b>	1,500 (59)	390 (860)	4,000 (8,800)	<b>47120033</b>
<b>KA-I-S</b>	1,800 (70¾)	490 (1,080)	4,000 (8,800)	<b>47120034</b>
<b>KA-II-S</b>	1,100 (43¾)	550 (1,210)	6,500 – 9,500 (14,300 – 20,900)	<b>47100038</b>



KA-II-VA

## Crane Boom with Distance Adjustment KA + VA

**A hydraulically extendable suspension point to extend the clamp forward of the fork lift truck.**

When using the distance adjustment, take note of the following points: The stability of the fork lift truck can be guaranteed only when the clamp is in its fully retracted position.

The clamp must only be extended when the fork lift is stationary, as long as the clamp is of a maximum of 10 cm above the loading surface of the truck.

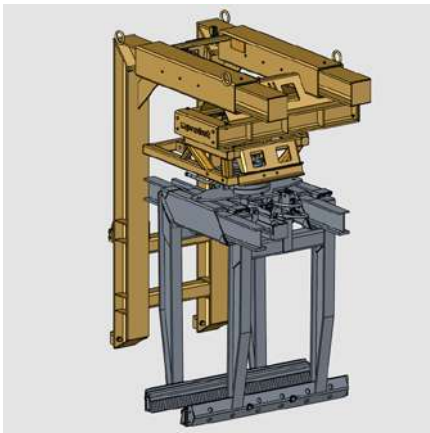
The customer must fit an optical signal. (Flashing lights or such like) to the fork lift, to warn the driver when the load is not in its fully retracted position. (For this purpose an electric contact switch is supplied with the device).

- Trucks can be loaded from one side alone.
- Useful in confined spaces.

**KA-I-VA:** Crane Boom for single grabs with distance adjustment.

**KA-II-S-VA:** Crane Boom for double grabs with distance adjustment.

Type	Load Extension mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>KA-I-VA</b>	1,120 – 1,800 (44 – 70¾)	480 (1,060)	4,000 (8,800)	<b>47120035</b>
<b>KA-II-S-VA</b>	1,120 – 1,800 (44 – 70¾)	690 (1,520)	6,500 – 9,500 (14,300 – 20,900)	<b>47120036</b>



KA-I-VA-SV

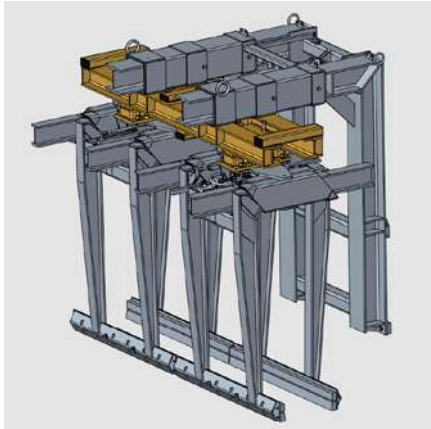
## Crane Boom with Distance Adjustment and Side Shift KA + VA + SV

**For hydraulic shifting of the clamp's suspension point in and across direction of travel.**

- Advantage: Enables the driver of the fork lift to position the clamps exactly.

**KA-I-VA-SV:** Crane Boom for single grabs with distance adjustment + side shift.

Type	Load Extension mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>KA-I-VA-SV</b>	1,120 – 1,800 (44 – 70¾)	150 (330)	4,750 (10,500)	<b>47120080</b>



2 x STAZ with QT + crane boom

## Spreader Bar QT

**For double clamps, for fitting both single clamps.**

Fixed model with set distance between the two clamps (QT model).

The spreader bar is firmly bolted to the clamps, yet is flexible beared in the driving direction and is fixed with individual swing dampers via rubber buffers.

Also available with hydraulic distance adjustment of the two clamps so that the distance between the packs is reduced and space is secured in the storage area (QT-H and QT-HL models).

Type	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Shifting mm (in)	Order-Number
<b>QT</b>	190 (420)	6,500 – 9,500 (14,300 – 20,900)	0	<b>47100037</b>
<b>QT-H</b>	300 (660)	6,500 – 9,500 (14,300 – 20,900)	0 – 400 (0 – 15¾)	<b>47130019</b>
<b>QT-HL</b>	320 (710)	6,500 – 9,500 (14,300 – 20,900)	0 – 640 (0 – 25¼)	<b>47130016</b>

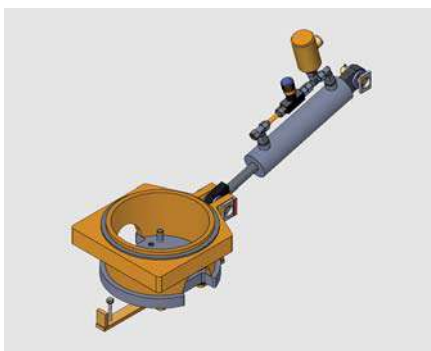


DK-506

## Hydraulic Rotator

**Fitted between the clamp and the fork sleeves/crane boom, enabling stacks to be lifted and deposited, according to requirements.**

Type	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Angle Pivoting-/Rotation Angle °Degree	Order-Number
<b>DK-506</b>	42 (95)	6,000 (13,200)	360	<b>47150080</b>
<b>GV-12-2</b>	56 (125)	7,500 (16,500)	360	<b>47150055</b>



PD-S-506

## Hydraulic Swing Damper PD

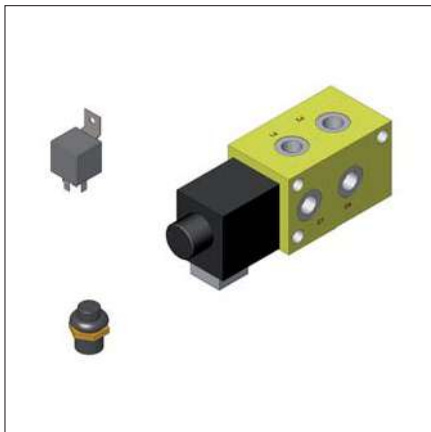
**Fitted to control the swinging movements of the clamp when the fork lift is in motion.**

Damper is longitudinally to the direction of travel by means of a hydraulic damping cylinder and diagonally to the direction of travel by means of rubber buffers. PD-V heavy-duty design with 2 damper cylinders arranged in V-stage.

Type	Dead Weight kg (lbs)	Order-Number
<b>PD-S-506</b>	45 (100)	<b>47140009</b>
<b>PD-V</b>	70 (155)	<b>47100042</b>



Hydraulic Hoses HD



Electromagnetic Change Over Valve ELMV

## Hydraulic Accessories

### Hydraulic Hoses

1 set = 2 hydraulic hoses including quick couplings between the fork lift and the fork sleeves or crane boom, length each approx. 1,200 mm (47¼ inch).

### Electromagnetic Change Over Valve ELMV

Fitted to the clamp, in case there is only one hydraulic circuit on the side of the fork lift for "clamping" and "turning". Supplied with the required electrical relays and push button, but not the electrical connections to the fork lift truck.

### Electromagnetic Change Over Valve ELMV-DZ

Fitted to each of both clamps of the fork lift double clamp attachment STAZ-DZ II, for the separate control of the two single clamps. This means that the double clamp can be used to transport only one stack, as and when required. Supplied without electrical connections to the fork lift truck.

### Electrical Connection-Kit between STAZ-DZ-II and forklift

Consisting of:

- Complete electric wiring of the attachment, installation of the components into the forklift has to be carried out by the customer.
- Spiral cable between forklift and attachment, control box and control elements.
- Turning light for warning purpose for V-attachment on crane boom KA.

### Safety valve

Valve installed on grab if second release function (accidental release) in accordance with DIN EN ISO 3691-1 missing from supporting device.

Type	Working Voltage V	Dead Weight kg (lbs)	Length mm (in)	Order-Number
<b>Hydraulic Hoses HD</b>		5 (10)	1,200 (47¼)	<b>47100047</b>
<b>Electromagnetic Change Over Valve ELMV</b>	12	4.2 (9)		<b>47100083</b>
<b>Electromagnetic Change Over Valve ELMV</b>	24	4.2 (9)		<b>47100107</b>
<b>Set of Electromagnetic Change Over Valve ELMV-DZ</b>	12	8 (20)		<b>47100207</b>
<b>Set of Electromagnetic Change Over Valve ELMV-DZ</b>	24	8 (20)		<b>47100208</b>
<b>Electrical Connection-Kit between STAZ-DZ-II and forklift</b>	12	8.1 (20)		<b>47100085</b>
<b>Electrical Connection-Kit between STAZ-DZ-II and forklift</b>	24	8.1 (20)		<b>47100154</b>
<b>"Open" safety valve, two-way operation</b>	12	4.1 (9)		<b>47100210</b>
<b>"Open" safety valve, two-way operation</b>	24	4.1 (9)		<b>47100212</b>



ATZ-P-4

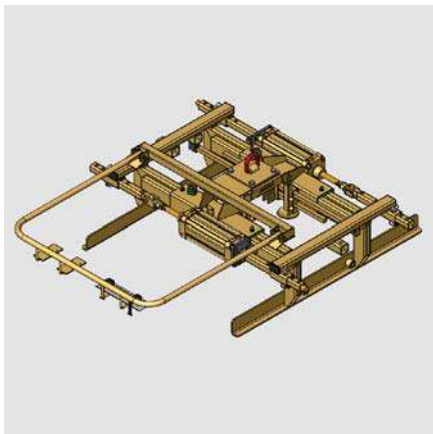
## Pneumatic Cubing Clamp ATZ-P

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

Mostly applied in conjunction with sandblasting machines.

Available with 2 or 4 sided clamping, depending on the size and shape of the paving blocks.

- Crane eye for attaching to crane hook.
- Pneumatic cylinder and additional manual adjustment enables a large opening range.
- Height adjustment facility.
- Fitted with manual control valve on the guiding handle.



ATZ-P-2

Type	Compressed Air Connection Pressure bar (psi)	Inside Height mm (in)	Dead Weight kg (lbs)	Opening Width Side Gripper mm (in)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Gripper Base Length mm (in)	Order-Number
<b>ATZ-P-4</b>	6 – 10 (87 – 145)	160 (6¼)	260 (570)	760 – 1,360 (30 – 53½)	660 – 1,420 (26 – 56)	400 (880)	1,200 / 850 (47¼ / 33½)	<b>57500097</b>
<b>ATZ-P-4</b>	6 – 10 (87 – 145)	160 (6¼)	270 (600)	760 – 1,360 (30 – 53½)	660 – 1,420 (26 – 56)	600 (1,320)	1,200 / 850 (47¼ / 33½)	<b>57500097-002</b>
<b>ATZ-P-2</b>	6 – 10 (87 – 145)	160 (6¼)	120 (265)		500 – 1,100 (19¾ – 43¼)	400 (880)	1,200 (47¼)	<b>57500148</b>



## Accessories

**GB1:** Rubber gripper in quick change system. Gripping element consisting of highly wear-resistant single-row rubber-metal rails.

Type	Description	Length of Gripper mm (in)	Dead Weight kg (lbs)	Quantity Pieces	Order-Number
<b>Connection spiral hose</b>	length approx. 5,000 mm (200") / Connection 12 L.		3.4 (7)		<b>23000001</b>
<b>GB1-540-L</b>		540 (21¼)	6 (13)	1	<b>47451020-0540</b>
<b>GB1-650-L</b>		650 (25½)	7 (15)	1	<b>47451020-0650</b>
<b>GB1-700-L</b>		700 (27½)	7.5 (16)	1	<b>47451020-0700</b>
<b>GB1-760-L</b>		760 (30)	8.5 (19)	1	<b>47451020-0760</b>
<b>GB1-800-L</b>		800 (31½)	9 (20)	1	<b>47451020-0800</b>
<b>GB1-850-L</b>		850 (33½)	8.5 (19)	1	<b>47451020-0850</b>
<b>GB1-900-L</b>		900 (35½)	10 (22)	1	<b>47451020-0900</b>
<b>GB1-1000-L</b>		1,000 (39¼)	11 (24)	1	<b>47451020-1000</b>
<b>GB1-1100-L</b>		1,100 (43¼)	12 (26)	1	<b>47451020-1100</b>
<b>GB1-1200-L</b>		1,200 (47¼)	13 (29)	1	<b>47451020-1200</b>
<b>GB1-1250-L</b>		1,250 (49¼)	13.5 (30)	1	<b>47451020-1250</b>
<b>GB1-1300-L</b>		1,300 (51¼)	14 (31)	1	<b>47451020-1300</b>



SRF-900

## Vertical Guide SRF-900

**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.

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).

Control bulb for 4 functions, with electroflex cable.

Crane hook for lifting a piece of equipment (with manual turning device which stops itself after each 90°).

Large polyamide slides for the telescopic action.

Please state the type of crane runway on request.

- 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.
- Pendulum movement is considerably minimized by using the SRF.

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



### Cone Insert Clamp KIG

- Fully mechanical operation, thus making it universally suitable for cranes or fork lifts.
- Universally suitable for symmetrical and unsymmetrical cones.
- Low level fork sleeves to save lifting height.
- Exchangeable, low-wear rubber metal bars for the gentle handling of cones.
- Fully automatic change-over from "full" to "empty".
- Eyelet for cranehook to forksleeve can be fitted later on.
- Minimum changeover and attachment times.

KIG

Type	Diameter inside mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>KIG-I</b>	625 – 800 (24½ – 31½)	210 (465)	2,000 (4,400)	<b>57200020</b>
<b>KIG-I-USA</b>	625 – 800 (24½ – 31½)	220 (485)	2,000 (4,400)	<b>57200106</b>
<b>KIG-II</b>	625 – 1,000 (24½ – 39¼)	280 (620)	2,000 (4,400)	<b>57200208</b>



## Manhole Ring Clamp RK-I/-II/-III

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. Making it suitable for handling green products.

- Fully mechanical operation, so it can be used with any lifting equipment.
- Crane eye for attaching to crane hook.
- Fully automatic change-over from "full" to "empty".

RK + ET



top: ET Low level fork sleeves, bottom: ET

Type	Number of Claws Pcs.	Diameter Nominal Diameter mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
RK-I	2	800 – 1,500 (31½ – 59)	170 (375)	80 – 160 (3¼ – 6¼)	2,000 (4,400)	57200030
RK-I-US	2	914 – 1,524 (36 – 60)	240 (530)	80 – 160 (3¼ – 6¼)	3,200 (7,100)	57200032
RK-II	3	1,500 – 2,500 (59 – 98½)	320 (710)	80 – 160 (3¼ – 6¼)	3,000 (6,600)	57200033
RK-III	3	2,000 – 3,000 (78¾ – 118)	350 (770)	80 – 160 (3¼ – 6¼)	3,000 (6,600)	57200036

### Accessories:

**ET-RK with cross link / ET-RK swivel hook:** Fork sleeve for fork lift peaks. Suitable for the RK, off set design to save lifting height.

**ET with cross link / ET 90° incl. cross link / ET with cross link USA:** Fork sleeve for fork lift peaks. 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	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
ET-RK with cross link	130 (285)	3,500 (7,700)	47200002
ET-RK swivel hook	140 (310)	3,500 (7,700)	47200028
ET with cross link	65 (145)	4,000 (8,800)	47100010
ET 90° incl. cross link	65 (145)	4,000 (8,800)	47110002
ET with cross link USA	65 (145)	4,000 (8,800)	47100106



AG



AG-S

## Setting Up Device for Manhole Rings AG

Two separate hydraulic circuits are needed on the side of the fork lift truck.

- Makes the production of manhole rings more efficient, as the rings and cones are gripped and lifted and set up hydraulically.
- As no radial pressure is exerted on the rings, green products can be safely handled.
- The setting up device can be used to transport and lift rings and cones.

Type	Diameter Nominal Diameter mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Working Load Limit/WLL kg (lbs)	Order-Number
AG	500 – 1,200 (19¾ – 47¼)	425 (940)	180 – 210 (2,611 – 3,046)	1,500 (3,300)	57200042
AG-S	625 – 1,200 (24½ – 47¼)	680 (1,500)	180 – 210 (2,611 – 3,046)	2,000 (4,400)	57200043



RKZ-H

## Ring- and Cone Clamp RKZ-H

A hydraulic grab attachment for transporting up to 3 manhole rings with a height of 500 mm (19½ inch).

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 on the side of the fork lift truck.

The RKZ-HS is a heavy-duty model for up to 4 manhole rings with a height of 500 mm (19½ inch). Supplied without connecting hoses to the fork lift truck.

If possible the Ring- and Cone Clamp RKZ-H/HS should be fitted onto the fork lift truck with a crane boom and a hydraulic rotator.

- 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.

Type	Diameter Nominal Diameter mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Working Load Limit/WLL kg (lbs)	Order-Number
RKZ-H	600 – 1,500 (23½ – 59)	1,500 (59)	680 (1,500)	180 – 210 (2,611 – 3,046)	1,750 (3,850)	57200011
RKZ-HS	600 – 1,500 (23½ – 59)	2,000 (78¾)	790 (1,740)	180 – 210 (2,611 – 3,046)	2,300 (5,100)	57200012



RKG

## Ring- and Cone Clamp RKG

Hydraulically operated universal grab attachment for manhole rings and cones.

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.

Supplied without connecting hoses to the fork lift truck.

If possible, the Ring- and Cone Clamp RKG should be attached to the fork lift truck with a crane boom and a hydraulic rotator.

- As no radial pressure is exerted, it is possible to handle green products.
- Suitable for use with fork lift trucks as well as loading cranes.

Type	Diameter Nominal Diameter mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Working Load Limit/WLL kg (lbs)	Order-Number
RKG-20	600 – 2,000 (23½ – 78¾)	600 (1,320)	180 – 210 (2,611 – 3,046)	2,500 (5,500)	57200002
RKG-25	600 – 2,500 (23½ – 98½)	620 (1,370)	180 – 210 (2,611 – 3,046)	2,500 (5,500)	57200187
RKG-S-25	600 – 2,500 (23½ – 98½)	655 (1,440)	180 – 210 (2,611 – 3,046)	4,000 (8,800)	57200110
RKG-S-30	600 – 3,000 (23½ – 118)	820 (1,810)	180 – 210 (2,611 – 3,046)	3,000 (6,600)	57200094





WG

## Turning Device for Concrete Bases WG

Enables concrete products such as manhole-basers to be turned around 180° after production (turning range 360° endless).

Supplied without connecting hoses to the fork lift truck.

- 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.
- Grippers lined with rubber metal bars and double-hinged so that they fit the various diameters well.
- Suitable for both round and square products.

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Hydraulic Connection Pressure bar (psi)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>WG</b>	900 – 1,580 (35½ – 62¼)	1,500 (3,300)	900 (35½)	180 – 210 (2,611 – 3,046)	3,000 (6,600)	<b>57200165</b>
<b>WG-S</b>	1,200 – 2,200 (47¼ – 86½)	1,900 (4,200)	900 (35½)	180 – 210 (2,611 – 3,046)	4,500 (9,900)	<b>57200169</b>



PWG-S

## 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	Diameter outside mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Angle Pivoting-/Rotation Angle °Degree	Order-Number
<b>PWG-S-4.5</b>	1,200 – 1,800 (47¼ – 70¾)	1,800 (3,950)	4,500 (9,900)	180	<b>57400016</b>
<b>PWG-S-7</b>	1,200 – 1,800 (47¼ – 70¾)	2,800 (6,200)	7,000 (15,400)	180	<b>57400017</b>



UMG

## Steel Pallet Grab UMG

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

- Fully mechanical operation.
- Crane eye for attaching to crane hook.
- Fully automatic change over from "full" to "empty".

Type	Number of Claws Pcs.	Diameter Nominal Diameter mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>UMG-30/80</b>	3	300 – 800 (11¾ – 31½)	1,200 (47¼)	90 (200)	1,000 (2,210)	<b>57200051</b>
<b>UMG-60/150</b>	3	600 – 1,500 (23½ – 59)	1,200 (47¼)	150 (330)	1,500 (3,300)	<b>57200050</b>
<b>UMG-150/300</b>	3	1,500 – 3,000 (59 – 118)	1,200 (47¼)	290 (640)	2,000 (4,400)	<b>57200063</b>



UG

## Turning Device for Concrete Pipes UG

Supplied without connecting hoses to the fork lift truck.

- Makes the handling of concrete pipes after production far more efficient.
- Due to large surfaced pressure pads, little pressure is exerted onto the pipe, meaning that green products can be safely handled.
- As the pipes are turned in a raised position, there is no danger of damaging the joints or the steel pallets.
- The parallel movement of the gripping arms means little space is required between the pipes.

Type	Diameter outside mm (in)	Diameter Nominal Diameter mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>UG-3.5</b>	380 – 1,320 (15 – 52)	300 – 1,000 (11¾ – 39¼)	820 (1,810)	180 – 210 (2,611 – 3,046)	3,500 (7,700)	<b>57300004</b>
<b>UG-4.5</b>	400 – 1,580 (15¾ – 62¼)	300 – 1,200 (11¾ – 47¼)	1,200 (2,650)	180 – 210 (2,611 – 3,046)	4,500 (9,900)	<b>57300025</b>
<b>UG-6.5</b>	400 – 1,800 (15¾ – 70¾)	300 – 1,500 (11¾ – 59)	1,970 (4,350)	180 – 210 (2,611 – 3,046)	6,500 (14,300)	<b>57300030</b>



WG

## Rotating Clamp for Concrete Pipes WG

A novel method for rotation of several pipes in one operational sequence, regardless of accuracy of individual pipes interspace.

Length of rubber grippers L = 1,650 mm (65 inch).

Supplied without connecting hose to the fork-lift-truck.

- The clamp attachment enables the rotating of the pipes by  $\pm 90^\circ$  (rotating range  $360^\circ$  endless) – without shunting the forklift.
- It is possible to pick up 3 pipes.

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>WG</b>	300 – 1,300 (11¾ – 51¼)	1,400 (3,100)	180 – 210 (2,611 – 3,046)	3,000 (6,600)	<b>57300044</b>
<b>WG-SR</b>	300 – 1,300 (11¾ – 51¼)	1,700 (3,750)	180 – 210 (2,611 – 3,046)	4,500 (9,900)	<b>57300051</b>



FUG

## Small Pipe Turning Device FUG

2 separate hydraulic circuits are needed on the side of the fork lift truck.

Supplied without connecting cables to the fork lift truck.

- Makes the handling of small pipes after production more efficient.
- Up to 5 small pipes with a length of 1 m can be gripped at once.
- There is a manual adjustment to accommodate other widths. The pipes are grabbed from production vertically and can be stored horizontally due to the integrated swivel mechanism.
- As the pipes are gripped on their walls, no radial pressure is exerted on them, meaning that green products can be safely handled.

Type	Description	Number of Pipes Pcs.	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Working Load Limit/ WLL kg (lbs)	Order-Number
<b>FUG</b>	up to 5 pipes with a width of 300 mm (11¾")	5	450 (990)	180 – 210 (2,611 – 3,046)	1,500 (3,300)	<b>57300006</b>



MFD

## Multiple Forks MFD

**For picking up several concrete pipes at the same time.**

The device is lifted using the fork lift truck forks, with a lockpin on the forks.

Distance between the bells of the pipes: 20 mm (¾ inch).

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

- The spreader bar is lined with rubber so that the pipes cannot be damaged.
- Ideal for stacking the storage area and for loading trucks.

Type	Number of Pipes Pcs.	Diameter Nominal Diameter mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Length Stone/Element mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>MFD-25-5</b>	5	250 (9¾)	300 (660)		2,000 – 3,000 (78¾ – 118)	2,600 (5,700)	<b>57400001</b>
<b>MFD-30-5</b>	5	300 (11¾)	330 (730)		2,000 – 3,000 (78¾ – 118)	2,000 (4,400)	<b>57400085</b>
<b>MFD-40-4</b>	4	400 (15¾)	350 (770)		2,000 – 3,000 (78¾ – 118)	2,200 (4,850)	<b>57400086</b>
<b>MFD-50-3</b>	3	500 (19¾)	375 (830)		2,000 – 3,000 (78¾ – 118)	2,500 (5,500)	<b>57400104</b>
<b>MFD-60-3</b>	3	600 (23½)	400 (880)		2,000 – 3,000 (78¾ – 118)	4,300 (9,500)	<b>57400026</b>
<b>MFD-UNI</b>	5	300 – 600 (11¾ – 23½)	1,200 (2,650)	180 – 210 (2,611 – 3,046)	2,000 – 3,000 (78¾ – 118)	5,000 (11,000)	<b>57400067</b>



RK

## Manhole Ring Clamp RK-XL-IV/-V/-VI

**With the mechanical large pipe clamp, concrete pipes up to ID 2800 mm (110 inch) can be safely grabbed vertically after production and placed on a tilting table.**

- Fully mechanical operation, making it suitable for use with any lifting equipment.
- Adjustable to the dimensions of the pipe in a hand crank.
- Crane eye for attaching to crane hook.
- Fully automatic change-over from “full” to “empty”, making it an absolute one-man machine.

Type	Number of Claws Pcs.	Diameter Nominal Diameter mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>RK-XL-IV</b>	2	1,000 – 1,800 (39¾ – 70¾)	600 (1,320)	85 – 250 (3¼ – 9¾)	7,500 (16,500)	<b>57300001</b>
<b>RK-XL-V</b>	2	1,500 – 2,600 (59 – 102¼)	1,700 (3,750)	85 – 300 (3¼ – 11¾)	15,000 (33,100)	<b>57300002</b>
<b>RK-XL-VI</b>	2	1,500 – 2,800 (59 – 110¼)	2,680 (5,900)	100 – 300 (4 – 11¾)	25,000 (55,100)	<b>57300009</b>





KT

## Tilting Table KT

Using the Large Pipe RK, the concrete pipes up to 3 m (118 inch) in length are placed on the tilting table. Then the pipes are tilted hydraulically by 90°. The pipes, now lying flat, are then removed by a forklift truck or crane.

Electro-hydraulically operated tilting table.

Tilting table equipped with fork sleeves for fork lift trucks so that the whole device can be moved easily.

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



PWG-R

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

A special hydraulic clamp designed to lift and rotate large concrete pipes by 90°.

Hydraulically powered by means of an electro hydraulic pump unit.

Incl. electric installation, connection 400 V/50 Hz.

- Space saving use on gantry crane.
- Fully hydraulic clamp, adjustable to various diameters.
- Large surface pressure pads with swinging rubber grippers ensure a good pressure distribution all over and so enable the production area to be cleared more quickly.
- The parallel movement of the gripping arms means that little space is required between the pipes.

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Angle Pivoting-/Rotation Angle °Degree	Order-Number
PWG-R-3	400 – 1,200 (15¾ – 47¼)	1,500 (3,300)	3,000 (6,600)	100	57450004
PWG-R-7	400 – 1,850 (15¾ – 72¾)	2,800 (6,200)	7,000 (15,400)	100	57450006
PWG-R-13	1,080 – 2,750 (42½ – 108¼)	9,200 (20,300)	13,000 (28,700)	100	57450008
PWG-R-20	1,800 – 3,550 (70¾ – 139¾)	15,000 (33,100)	20,000 (44,100)	100	57450007







## Fork Lift Grab STAZ-KS

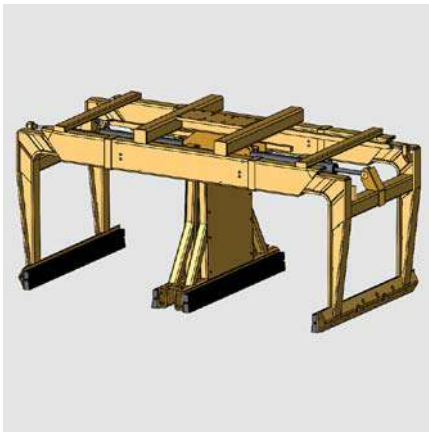
**Specially designed for operation in silicate block factories.**

With crane boom, hydraulic continuous rotator, hydraulic swing damper and rubber grippers for handling silicate blocks gently.

Different models to cope with specific needs available on request.

- Working load limit up to 6,000 kg (13,228 lbs).
- Polyamide sliding guides come with a 5 year guarantee.

Type	Order-Number
STAZ-KS	



## Double Fork Lift Grab STAZ-DZ-I

The same characteristics as the STAZ-UNI but, due to an additional hydraulically spreadable centre divider it can be used to lift 2 stacks at the same time if they are standing across on the conveyor belt.

Supplied without connecting hoses to the fork lift-truck.

- The extremely slim build of the central divider (200 mm/7¾ inch closed, 300 mm/11¾ inch spreaded) means a lot of space can be saved when stacking goods.
- Only one hydraulic circuit is needed to be supplied by the fork lift truck to operate both, clamping and center divider due to a hydraulic sequence circuit.
- Polyamide sliding guides come with a 5 year guarantee.

STAZ-DZ-I

Type	Inside Height mm (in)	Dead Weight kg (lbs)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
STAZ-DZ-I-850	850 (33½)	570 (1,260)	550 – 940 (21¾ – 37)	3,200 (7,100)	57000050
STAZ-DZ-I-1000	1,000 (39¼)	620 (1,370)	550 – 940 (21¾ – 37)	3,200 (7,100)	57000052

Larger or modified opening widths and heights are available on request.



STAZ-UNI-P



STAZ-UNI-KA

## Fork Lift Grab STAZ-UNI-P/STAZ-UNI-KA

Specially designed for the heavy duty work with forklift truck, directly fixed to the carriage plate of the forklift.

We recommend the use of a side-shift built into the forklift.

Supplied without connecting hoses to the forklift-truck.

- Light-weight, yet with a high working load limit 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. Fully hydraulic parallel opening range.
- Low maintenance steel polyamide sliding guides.
- Manually adjustable pressure relieve valve.
- Oil Pressure Gauge.
- Polyamide sliding guides come with a 5 year guarantee.

At **STAZ-UNI-P-1000**: grips the pack by pressing it towards the gripper close to the forklift.

This achieves smallest possible load center of the pack.

At **STAZ-UNI-KA-1000**: moves both grippers synchronized towards the pack. Compact design due to integrated crane boom.

Type	Inside Height mm (in)	Dead Weight kg (lbs)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>STAZ-UNI-P-1000</b>	1,000 (39¼)	440 (970)	580 – 1,260 (22¾ – 49½)	2,300 (5,100)	<b>57000087</b>
<b>STAZ-UNI-KA-1000</b>	1,000 (39¼)	690 (1,520)	370 – 1,370 (14½ – 54)	2,000 (4,400)	<b>57000107</b>

Larger or modified opening widths and heights are available on request.



ASZ

## Sorting Clamp ASZ

This universal outsourcing clamp has a wide adjustable opening width and can be used for a wide range of products.

There are two different variations:

1. ASZ for the efficient outsourcing of concrete steps, kerb stones and similar.
2. ASZ-R for the handling of sewerage elements. The grippers are prism-shaped to grip the round contour of the rings.

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.

- Lifting eye for attaching to crane hook.
- Lifting handle.
- 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".

Type	Dimensions Stone/ Element L x W mm (in)	Length of Gripper mm (in)	Diameter mm (in)	Inside Height mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>ASZ</b>	600 x 1,200 (23½ x 47¼)	200 (7¾)		120 (4¾)	26 (55)	250 (550)	<b>53100259-005</b>
<b>A-50</b>		50 (2)			1.3 (3)		<b>43100376</b>
<b>A-100</b>		100 (4)			0.8 (2)		<b>43100377</b>
<b>ASZ-R</b>		300 (11¾)	620 – 1,200 (24½ – 47¼)	100 (4)	34 (75)	250 (550)	<b>53100281-003</b>



P-WG

## 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.

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

Type	Compressed Air Connection Pressure bar (psi)	Inside Height mm (in)	Dead Weight kg (lbs)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Angle Pivoting-/ Rotation Angle ° Degree	Order-Number
<b>P-WG</b>	6 – 10 (87 – 145)	285 (11¼)	200 (440)	600 – 2,000 (23½ – 78¾)	500 (1,100)	180	<b>57400109</b>



ASZ-P

## Pneumatic Sorting Clamp ASZ-P

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

Suitable for attachment to a vacuum lifting unit or to a overhead or jib crane.

Cylinder lifting 150 mm (6 inch): the further range of opening width is mechanically adjustable.

- With flange plate to attach to a vacuum lifting unit, alternatively with a lifting eye.
- With pneumatic closing cylinder and additional manual adjustment to achieve a larger opening width.
- Hand-guided valve with closing cylinder.

Type	Compressed Air Connection Pressure bar (psi)	Dead Weight kg (lbs)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>ASZ-P</b>	6 – 10 (87 – 145)	32 (70)	220 – 1,050 (8¾ – 41¼)	120 (265)	<b>57400023</b>

Other opening widths and heights are available on request.







VAH-12

## Vacuum Sorting Lifter VAH-12

The vacuum sorting aid enables simple and fast sorting, palletising and moving of smaller slabs and paving stones with one hand.

- Suction plate made from lightweight aluminium.
- The VAH-12 can even be connected to standard industrial vacuum cleaners (wet/dry vacuum cleaner with bypass valve for permanent cooling) by means of the supplied connection cones. It is recommended to use the VGE-SB-L-E vacuum fan unit for uninterrupted operation.
- Easy, precise handling and fast cycle times.
- Ensures an ideal reduction of workload and increased productivity.

### Scope of delivery:

**VAH-12:** 1 x single-handed suction plate with handle, 1 x lifting hose (Ø 80 mm), 2 x connecting cone for industrial vacuum cleaners, 1 x adapter for turbine unit VGE-SB-L-E.

Type	Dimensions L x W x H mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>VAH-12</b>	200 x 95 x 160 (7¾ x 3¾ x 6¼)	8 (20)	12 (25)	<b>58500008</b>



VACUSPEED VXS

## VACUSPEED VXS Vacuum-Hose-Lifter

The VACUSPEED VXS vacuum hose lifter ensures best ease of working combined with highest productivity when handling pavers, slabs etc. Ideal for quality control work! For connecting vacuum pump unit to the lifting unit.

- The vacuum energy is used for holding the material as well as for lifting and lowering it.
- Can be operated easily, exactly and quickly. No manual lifting force necessary.
- Precise one hand operation, suitable for left- and right-hander.
- 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.
- Advantage: No need to get access sideways to the products to be sorted for gripping, Access from the top is fully sufficient!
- High lifting speed of up to 50 m/min (54.7 ft/min).
- Lifting and lowering speed is continuously.
- Suction plate can swivel by 90 degrees in order to pick up and handle products vertically.
- With quick change system for different suction plates (SPS).
- Suction plate see chart.
- The VACUSPEED VXS-35-P and 50-P can be suspended to any crane system within seconds and is ready to work.
- With electrical glanded pump for vacuum generation.

### Scope of delivery:

**VXS-35-P/VXS-50-P:** Electricity driven vacuum pump, motor protection switch, dust filter, lifting unit and operating unit without suction plate and quick-change device for suction plate.

Type	Type of Drive electric/AC (60 Hz) kW	Type of Drive electric/AC (50 Hz) kW	Electric Connection/AC (50 Hz) Voltage V	Electric Connection/AC (60 Hz) Voltage/AC (60 Hz) V	Dead Weight kg (lbs)	Height Lifting Height mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>VXS-35-P</b>	1.5	1.25	230/400	240/480	47 (105)	1,500 (59)	35 (75)	<b>57600034</b>
<b>VXS-50-P</b>	3	2.4	230/400	240/480	82 (180)	1,500 (59)	50 (110)	<b>57600041</b>

### Accessories:

Type	Description	Dimensions L x W mm (in)	Diameter mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL -600 mbar kg (lbs)	Order-Number
<b>VXS-SPS-35</b>		175 x 175 (7 x 7)		0.87 (2)	35 (75)	<b>47610026</b>
<b>VXS-SPS-35</b>		240 x 160 (9½ x 6¼)		0.85 (2)	35 (75)	<b>47610022</b>
<b>VXS-SPS-50</b>		194 x 194 (7¾ x 7¾)		0.8 (2)	50 (110)	<b>47610024</b>
<b>Supply Hose for VXS-35-P</b>	Cut goods		25 (1)			<b>47610008</b>
<b>Supply Hose for VXS-50-P</b>	Cut goods		32 (1¼)			<b>25200011</b>
<b>Dust filter cartridge for VXS-35-P</b>				0.08 (0.18)		<b>42500120</b>
<b>Dust filter cartridge for VXS-50-P</b>				0.2 (0.4)		<b>25000027</b>

## 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 new aluminium crane systems of Probst are now offering ergonomically advantages by smooth running and lightweight design.



### 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 minimum thickness of the concrete floor of 200 mm (73/4") and a concrete quality C20/25. (Simple installation, no flange plates needed).

Optional accessories: Set of dowels 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").

VXS-ASSK-65-4

Type	Load Extension mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Angle Pivoting-/Rotation Angle °Degree	Order-Number
<b>VXS-ASSK-65-4</b>	4,000 (157½)	155 (340)	65 (145)	270	<b>42000137</b>

### Accessories:

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>VXS-ASSK-KP-65-4</b>	For crane 65 kg, reach 4m	1,130 (2,490)	<b>42000157</b>
<b>DS-ASSK</b>	Set of dowel for pillar swing crane	2.5 (6)	<b>42000100</b>



VXS-AWSK-65-4

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

The static for fixing the crane to the wall has to be checked by the customer.  
CE approved.

- 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 lightweight 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.

### Scope of delivery:

**VXS-AWSK-65-4:** Comes with adjustable stop, carrier for pipe or cable, roller suspension for hose lifter.

Type	Load Extension mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Angle Pivoting-/Rotation Angle °Degree	Order-Number
<b>VXS-AWSK-65-4</b>	4,000 (157½)	77 (170)	65 (145)	180	<b>42000138</b>

## Vacuum Hose Lifter for In-Plant Use

Probst offers a wide range of solutions for in-plant use.



JWK-80/250-4-EU

## Jumbo Travelling Crane JWK

Complete ready-to-use unit comprising crane, ballast, electrics and vacuum turbine.  
Complete with socket.

Ballast container, made of steel sheet, approx. 1.0 x 0.8 x 1.8 m height (40" x 31 1/2" x 71") should be filled with concrete, sand or steel scrap. Thus ensuring the necessary stability.

Adjusting screws for alignment.

Light weight boom, 4,000/5,000 mm (157 1/2"/196 3/4 inch) reach, height adjustable and with a displacement of about 270°.

Supply-hose D = 60 mm (2 1/2 inch), 7,000 mm (275 1/2 inch) long. With quick coupling 2 inch.

To complete your Jumbo Travelling Crane JWK you need: Lifting Unit, Operating Valve Unit, Suction Plate.

- The machine can be moved easily by taking up with the fork prongs.
- Various lifting units and grippers can be attached to the Jumbo Travelling Crane JWK (see specifications).
- 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.
- Efficient working practices and less stress on your workers.

### Scope of delivery:

**JWK:** Vacuum turbine VGE-SB-EL with electric motor (electrical date see page 186), incl. pressure regulating valve DBV, motor protector switch and socket "CEKON" 32 A with integral phase switch, dust-filter with pre-separator and filter cartridge.

Type	Load Extension mm (in)	Weight Counter Weight/ Ballast kg (lbs)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>JWK-80/250-4-EU</b>	4,000 (157 1/2)	3,600 (7,900)	1,050 (2,320)	250 (550)	<b>52800019</b>
<b>JWK-80/250-5-EU</b>	5,000 (196 3/4)	4,600 (10,100)	1,110 (2,450)	250 (550)	<b>52800021</b>





HE-35 – HE-250

## Lifting Hose Units HE

For use with the 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 not to be operated with JUMBOMOBIL and MULTIMOBIL MM).  
Consists of:  
Transportation hook.  
Rotational Device and quick coupling, 2 inch.  
Lifting hose unit with protective fabric as well as a flange for fitting onto the operating valve unit.  
Available optionally for HE-150/200/250: reinforced belt stay with buckle.

Type	Diameter mm (in)	Height Lifting Height mm (in)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
HE-35	120 (4¾)	1,700 (67)	35 (75)	42100001
HE-50	140 (5½)	1,700 (67)	50 (110)	42100106
HE-85	178 (7)	1,700 (67)	85 (185)	42100002
HE-150	230 (9)	1,500 (59)	150 (330)	42100132
HE-200	250 (9¾)	1,500 (59)	200 (440)	42101114
HE-250	300 (11¾)	1,500 (59)	250 (550)	42101115



BE-SPRINT-2

## Operating Valve Unit BE-SPRINT-2

For direct coupling onto the lifting unit HE.  
Longer operating handles on request.

### Scope of delivery:

**BE-SPRINT-2:** Main body with handle 500 mm (19½ inch) long, fixing screw for adjusting the hovering position, safety gauge.

Type	Description	Dead Weight kg (lbs)	Order-Number
BE-SPRINT-2	for HE-35 up to HE-250	8.5 (20)	42100539



BE-ERGOSPRINT

## Ergonomic Vacuum Control Unit BE-ERGOSPRINT

### Picking up and laying concrete elements in an upright posture.

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

- No more bending over when picking up, moving and laying the concrete element.
- Control of suction and release via rotary handle on the right handle.
- Handle can be locked in the uppermost position.
- Greater safety clearance to paving material.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>BE-ERGOSPRINT</b>	for HE-35 up to HE-250	13.5 (30)	<b>42101305</b>



SZV

## Hose Cylinder Extension SZV

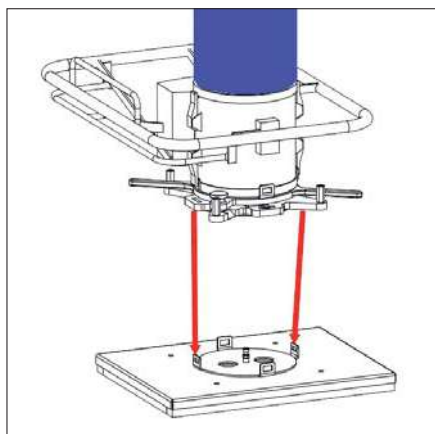
Only to be used as and when required to enable ergonomic working conditions, at certain heights.

Length 300 mm (11¾ inch).

### Scope of delivery:

**SZV:** Vacuum pipe with quick fasteners and transmission bar for ram.

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>SZV</b>	for HE-35 up to HE-150	3.2 (7)	<b>42100007</b>
<b>SZV-250</b>	for HE-200 up to HE-250	5.8 (15)	<b>42100008</b>



SWV-HE

## Quick Change Device SWV-HE

Suction plates are usually fixed to the operating valve unit BE or hose cylinder extension SVZ through two hook latches.

In case suction plates have to be changed continually, the quick change device SWV-HE is highly recommended.

When using lifting hose units HE-200 and HE-250, the lifting hose unit is fitted directly to the lifting hose unit by means of 4 tension rods (threaded rods).

- Faster suction plate changing with a simple twisting 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.

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
<b>SWV-HE</b>	Quick change device	3.8 (8)	250 (550)	<b>42101026</b>



ESP-150-31/31

## Suction Plates ESP

**For the direct coupling to the operating valve unit or the hose cylinder extension.**

Suction plates with attached foam rubber seal, including lifter for tactile steering.

For more suction plates contact us for professional advice.

Type	Dimensions L x W mm (in)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
<b>ESP-35-20/20</b>	200 x 200 (7¾ x 7¾)	35 (75)	<b>42100050</b>
<b>ESP-50-23/23</b>	230 x 230 (9 x 9)	50 (110)	<b>42100561</b>
<b>ESP-85-25,5/25,5</b>	255 x 255 (10 x 10)	85 (185)	<b>42100051</b>
<b>ESP-150-31/31</b>	310 x 310 (12¼ x 12¼)	150 (330)	<b>42100145</b>
<b>ESP-150-40/27,5</b>	400 x 275 (15¾ x 10¾)	150 (330)	<b>42100116</b>
<b>ESP-150-50/19</b>	500 x 190 (19¾ x 7½)	150 (330)	<b>52300019</b>
<b>ESP-150-92,4/13,4</b>	924 x 134 (36½ x 5¼)	150 (330)	<b>52300008</b>
<b>ESP-150-100/12,4</b>	1,000 x 124 (39¼ x 5)	150 (330)	<b>52300007</b>
<b>ESP-200-33/33</b>	330 x 330 (13 x 13)	200 (440)	<b>42100331</b>
<b>ESP-250-40/40</b>	400 x 400 (15¾ x 15¾)	250 (550)	<b>42100054</b>

**Caution:** It is forbidden to use suction plates with a smaller working load limit than the lifting unit HE to ensure that the lifting unit is not detached. It is permissible to use suction plates with a higher working load limit than the lifting unit.



## Angled Suction Plates WSP

**For the direct coupling to the operating valve unit or the hose cylinder extension.**

Suction plates with attached foam rubber seal, including lifter for tactile steering.

Other suction plates on request.

WSP

Type	Dimensions L x W x H mm (in)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
<b>WSP-150-52/15-12-98°</b>	520 x 150 x 120 (20½ x 6 x 4¾)	150 (330)	<b>52500184</b>
<b>WSP-150-70/8-11-143°</b>	700 x 80 x 110 (27½ x 3¼ x 4¼)	150 (330)	<b>42100238</b>
<b>WSP-150-70/11-17-143°</b>	700 x 110 x 170 (27½ x 4¼ x 6¾)	150 (330)	<b>42100126</b>
<b>WSP-150-85/7-7-135°</b>	850 x 70 x 70 (33½ x 2¾ x 2¾)	150 (330)	<b>52300018</b>
<b>WSP-150-70/13-10-143°</b>	700 x 130 x 100 (27½ x 5 x 4)	150 (330)	<b>52500131</b>
<b>WSP-150-90/10-14-93°</b>	900 x 100 x 140 (35½ x 4 x 5½)	150 (330)	<b>52300033</b>
<b>WSP-150-90/8-11-90°</b>	900 x 80 x 110 (35½ x 3¼ x 4¼)	150 (330)	<b>42100795</b>

**Caution:** It is forbidden to use suction plates with a smaller working load limit than the lifting unit HE to ensure that the lifting unit is not detached. It is permissible to use suction plates with a higher working load limit than the lifting unit.



MSP 3-way (movable)



MSP 5-way (movable)



MSP 7-way (movable)

## Multiple Suction Plates MSP

**A modular design system, working with mainly standardised elements.**

We can therefore produce the appropriate suction plates fast and cost efficient according to customers needs.

■ Quickly replaceable sealing rings with low-wear sponge rubber.

**MSP-X-V... (movable):** multiple suction plate with distance control. If a certain distance between stones is needed, you can fix the distance of the suction pad with a lever at a set distance, so the stones will always have the correct spacing.

**MSP-X-S... (rigid):** multiple suction plate with adjustable spacing of the suction plates. Subsequent fixation via screws.

Type	Dimensions L x W mm (in)	Dimensions oval, L x B mm (in)	Number of Suction Plates Pcs.	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
<b>MSP-3-S-150-3x22RD</b>		220 (8¾)	3	150 (330)	<b>42101192</b>
<b>MSP-5-V-150-5 x SPS-24/16-a-24</b>	240 x 160 (9½ x 6¼)		5	150 (330)	<b>42101097</b>
<b>MSP-7-V-150-7 x SPS-17/16-a-16</b>	170 x 160 (6¾ x 6¼)		7	150 (330)	<b>42101096</b>
<b>MSP-7-V-150-7 x SPS-16/14-a-16</b>	160 x 140 (6¼ x 5½)		7	150 (330)	<b>42101078</b>





top: UZ-BV, bottom: VZ-BV



RG-VZ

## 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.

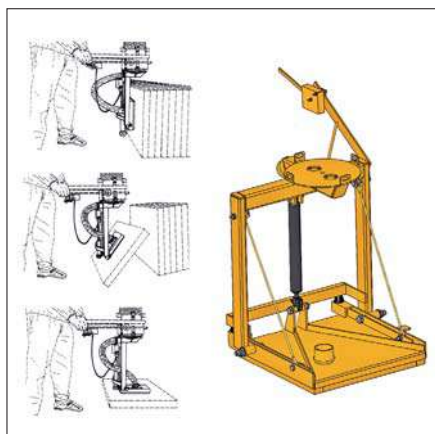
**UZ-BV:** universal kerb stone clamp specially designed to grab the kerbs crossway. This is how curved kerb stones with different radiuses can be handled.

**RG-VZ:** Special clamp for the laying of 1, 2 or 3 grass stone slabs in one movement.

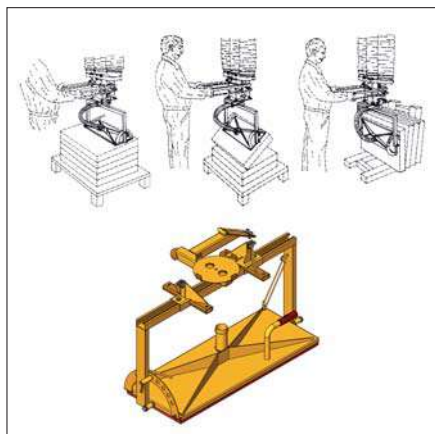
**VZ-BV-98/100:** this clamp has been specially designed to cope with the rare cases when kerb stones are too porous to be lifted with vacuum, so they therefore have to be lifted mechanically.

**VZ-BV-40/104:** 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.

Type	Description	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
<b>UZ-BV</b>	Radius Kerb Clamp	12 (25)	80 – 220 (3¼ – 8¾)	150 (330)	<b>52300031</b>
<b>VZ-BV-98/100</b>	Mechanical Kerb Stone Handle	8 (20)	980 – 1,000 (38½ – 39¼)	150 (330)	<b>42300001</b>
<b>VZ-BV-40/104</b>	Mechanical Kerb Stone Handle	6.9 (15)	400 – 1,045 (15¾ – 41¼)	150 (330)	<b>42300149</b>
<b>RG-VZ</b>	Turf Stone Handle	12 (25)	100 – 490 (4 – 19¼)	70 (155)	<b>42000003</b>



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



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

## 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.

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

Specially designed for handling of slabs in concrete and natural processing factories.

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.

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!

Fastening suitable for Quick Change Adapter SWA-200.

Type	Dimensions L x W mm (in)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
ESP-SW-B-H-VH-150-33/33-0	330 x 330 (13 x 13)	150 (330)	42100096
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



ESP-SW-P-250-A

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

Developed specifically for handling plate-shaped elements and kerbstones with pneumatic swivelling from vertical to horizontal position and vice versa.

Without suction plate.

- Swivel range of 90° with pneumatic cylinder.
- Can be used on HE-200 and smaller lifting units.
- To improve ergonomics, possibly use handle extension 42300124.

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
ESP-SW-P-250-A	Base frame without suction plate	40.6 (90)	250 (550)	42101227

## Vacuum Hose Lifter Components

- As an alternative to the complete Jumbo Travelling Crane, 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 granted off site.



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
<b>VGE-230</b>	2.5	230	77 (170)	<b>42101425</b>



VGE-SB

## Vacuum Turbine Unit VGE-SB

**Complete, ready-to-run unit for the electrical production of vacuum.**

For more difficult use, such as handling of porous elements and high lifting-speed requirements.

### Scope of delivery:

**VGE-SB-L-EL-EU:** Strong, compact housing to be installed on the floor or against the wall. Powerful vacuum turbine with 3-phase electric motor, for maximum low pressure 520 mbar (7,541 psi). With large volume dust-filter with pre-separation for rough conditions in construction industry, including filter-cartridge. With motor-protection switch, pressure relieve valve and electrical plug CEKON 32 A with integrated phase-switch.

Type	Type of Drive electric/AC (60 Hz) kW	Type of Drive electric/AC (50 Hz) kW	Electric Connection/AC (60 Hz) Voltage/AC (60 Hz) V	Electric Connection/AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Order-Number
<b>VGE-SB-L-EL-EU</b>	4.8	4	240 / 480	230 / 400	113 (250)	<b>47600160</b>
<b>VGE-SB-L-EL-USA</b>	4.8		230 / 460		113 (250)	<b>47600161</b>
<b>VGE-SB-L-EL-RU</b>	4.8	4	220 / 380	200 / 350	113 (250)	<b>47600162</b>

## Accessories:

**Supply Hose:** For connecting the turbine unit to the lifting unit. With 2" coupling and 2 hose clamps.

Type	Description	Diameter mm (in)	Dead Weight kg (lbs)	Length mm (in)	Order-Number
Supply Hose	Polyurethane	60 (2¼)	10 (20)	7,000 (275½)	42100030

## Aluminium Smooth Running Cranes for Vacuum Hose Lifters

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 (indoor use only).

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



AWSK-150

## Wall Swing Crane AWSK

If special suction plates, such as tiltable suction plates are used, the lifting height can be less.

The static for fixing the crane to the wall has to be checked by the customer.

Such as lifting unit HE, operating valve unit BE, vacuum turbines and different suction plates see page 178 – 183.

- 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 lightweight 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. Measurement from ground level to the suction plate ESP about 0 to 85 mm (0 to 31/4") when the lifting hose is fully extended, depending on the type of suction plate.
- Thus the complete lift of the hose lifter of 1,500 mm (59") can be used.

## Scope of delivery:

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

Type	Load Extension mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Angle Pivoting-/Rotation Angle °Degree	Order-Number
AWSK-150-3	3,000 (118)	46 (100)	150 (330)	180	42000132
AWSK-150-4	4,000 (157½)	52 (115)	150 (330)	180	42000126
AWSK-150-5	5,000 (196¾)	81 (180)	150 (330)	180	42000127
AWSK-300-4	4,000 (157½)	73 (160)	300 (660)	180	42000128
AWSK-300-5	5,000 (196¾)	81 (180)	300 (660)	180	42000129





## Pillar Swing Crane ASSK

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 minimum thickness of the concrete floor of 200 mm (73/4") and a concrete quality C20/25. (Simple installation, no flange plates needed).

Crane height up to bottom edge of crane boom 3200 mm (126 inch).

Optional accessories:

Set of dowels DS-ASSK, consisting of the following components:

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

ASSK-150



ASSK with lifting hose unit, operating valve unit and suction plate

Type	Load Extension mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Angle Pivoting-/Rotation Angle °Degree	Order-Number
ASSK-150-4	4,000 (157½)	167 (370)	150 (330)	270	42000146
ASSK-150-5	5,000 (196¾)	222 (490)	150 (330)	270	42000147
ASSK-300-4	4,000 (157½)	327 (720)	300 (660)	270	42000124
ASSK-300-5	5,000 (196¾)	414 (910)	300 (660)	270	42000125

### Accessories:

Type	Description	Dead Weight kg (lbs)	Order-Number
DS-ASSK	Set of dowel for pillar swing crane	2.5 (6)	42000100



FSG-UNI



P-4



STAZ



STAZ-3 with Three Sides Arms

## Grabs for fully automatic plants

Various types of grabs are needed for the efficient handling of construction materials at the concrete plant. Pavers, porous concrete, sand-lime bricks and many more construction materials in various shapes have to be transported, turned and packed. The product range of probst grabs for fully automatic plants can be configured individually to fit to the user-specific challenges!

### Vacuum Layer Gripper FSG-UNI

One complete layer of blocks, no matter which shape and which configuration of blocks can be picked up by suction. This allows for complete new design possibilities of 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 stone.

### ROBOGRIP P-4 Pneumatic Robot Grab

Pneumatic, foursided grab for fully automatic cubing in the concrete stone industry by using an industrial robot. High tensile steel as well as light weight design are minimizing the dead weight of the grab.

### Cube Clamp STAZ and Cube Clamp 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 etc. is possible. Spring loaded pressure plates can stabilize the cube of blocks if required. Also available with swiveling or rotating grippers.

### Electric Cubing Clamp ATZ-E-4 and Hydraulic Cubing Clamp ATZ-H-4

Electric or hydraulic two- or foursided cubing clamps for fully automatic cubers in the concrete stone industry. 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



ATZ-H-4





# Truck Crane Attachments

Loading and unloading made easy. Increase your efficiency with optimised handling.



**We have developed various types of Block Loading Grabs specially equipped for your needs and loads:**

- 1. With fixed height**
- 2. With adjustable height**

For all types we use only the best quality and most reliable components.

- Light weight construction in high tensile steel.
- Large, low-maintenance polyamide sliding guides.

The parallel-moveable legs of the clamp are mounted on large dimensioned polyamide sliding surfaces. This saves you from having to adjust the bearings and means you only have minimal wear and tear.

## **5 Year Guarantee on Sliding Guides.**

Probst products have been renowned world-wide for decades for their class workmanship and quality. For example we use a highly durable natural rubber with bearing height of 1000 mm (39½ inch) for the rubber lining on the grippers. This high quality material ensures less wear and tear which results in fewer operation costs.

The rubbers are fixed onto the grippers by means of a robust screw connection. Changing the linings – when they need renewing – is quick.

As the clamp legs are so well constructed and extremely stable, our AKZ only need a small grab between the packs of materials they have to lift. This can be very advantageous when the packs are stacked very close to each other.

## **All types come with these standard specification:**

- Operated hydraulically, smoothly and in parallel
- Manually adjustable pressure reducing valve
- Oil pressure gauge
- 4 Hooks for attaching cables or straps
- Robust gear rack balance for the absolute synchronous running of the hydraulic cylinders.

**Block loading grabs with adjustable height: four different inside height settings can be made via pre-selector lever. A floating position can be pre-selected as an option too.**







AKZ-UNI-1230



AKZ-UNI

## Block Loading Grabs AKZ-UNI with a Fixed Height

Specially designed for use with truck loading cranes. For the transportation of palletised and unpalletised packs of blocks.

In the case of unpalletised stone packages, ensure that the strapping is sufficiently stable.

- Light weight construction in high tensile steel.
- Fully hydraulically adjustable opening range.
- Large, low-maintenance plastic sliding guides.
- Manually adjustable pressure-reducing valve.
- Oil pressure gauge.
- Robust gear rack balance for the absolute synchronous running of the hydraulic cylinders.
- 4 Hooks for attaching slings or straps.
- The slide bearings carry a 5 year guarantee.
- The generous opening range and the quick change grippers of various lengths and design make the AKZ adaptable to carry all the usual packs of building materials (see Accessories).

Type	Inside Height mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Gripper Base Length mm (in)	Order-Number
AKZ-UNI-850	850 (33½)	310 (680)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,000 (6,600)	1,000 (39¼)	56100850-1000
AKZ-UNI-1000	1,000 (39¼)	320 (710)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,000 (6,600)	1,000 (39¼)	56101000-1000
AKZ-UNI-1100	1,100 (43¼)	325 (720)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,000 (6,600)	1,000 (39¼)	56101100-1000
AKZ-UNI-1230	1,230 (48½)	345 (760)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,000 (6,600)	1,000 (39¼)	56101230-1000
AKZ-UNI-1230	1,230 (48½)	370 (820)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,000 (6,600)	1,250 (49¼)	56101230-1250
AKZ-UNI-1300	1,300 (51¼)	350 (770)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	2,500 (5,500)	1,000 (39¼)	56101300-1000

## Accessories

Type	Description	Dead Weight kg (lbs)	Quantity Pieces	Working Load Limit/WLL kg (lbs)	Order-Number
Screw hook AKZ-UNI	For hanging up BigBags	2 (4)	1	750 (1,650)	46100444



AKZ-H-UNIGRIP



AKZ-UNI-H

## Block Loading Grabs AKZ with Adjustable Height

**This has the same design and characteristics like the AKZ-UNI but comes with adjustable height for differing pack heights.**

This universal type of grab is suitable for the transport of building materials of all types and sizes. By the adjustable height and the large opening width it can be used for all building materials on pallets and without pallets.

Height Adjustment with a choice of fixed or floating position.

A choice of various heights.

The vertical height adjustment bar is equipped with 4 drillings which are situated on different height levels, each shifted by 90°.

Locking the grab onto position (Locking Mechanism).

The desired height is set by means of the practical star handles. Once the grab has been raised, the height adjustment locks into position automatically when it has reached the required height.

Advantage: The grab can be squeezed in between tightly-packed blocks of goods.

The different levels are for the following heights:

level 1 (turning 0°) R 1,100 mm (43")

level 2 (turning 90°) R 1,280 mm (50")

level 3 (turning 180°) R 1,470 mm (58")

level 4 (turning 270°) R 1,650 mm (65")

Extending the legs to the required height (floating position).

The desired height is set by means of the star handles. Once the grab has been raised, the legs extend to the required measurements, once the grab is put back down, the legs revert to their lowest position.

Advantage: Once the goods have been unloaded, the grab height does not need to be adjusted manually to return to the optimal low resting height.

Time savings: The driver does not need to leave the cab to set down the grab.

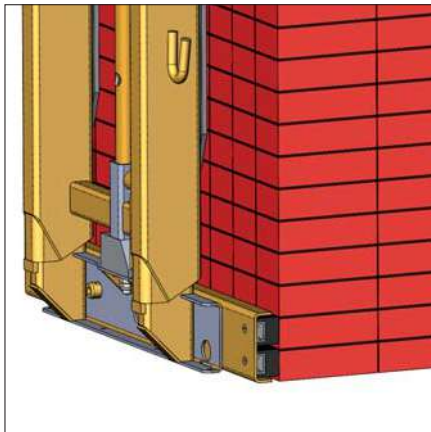
Higher pressure – finely adjustable, for example to grip material which is sensitive against pressure.

Low overall height of equipment.

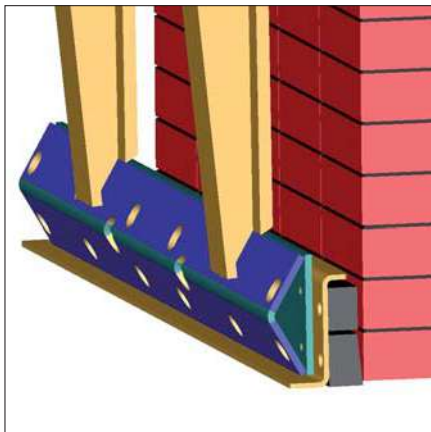
- Hydraulically and smoothly operable and works in parallel.
- Robust gear rack balance for the absolute synchronous running of the hydraulic cylinders.
- Large low-maintenance polyamide sliding guides with 5-year guarantee.
- Automatic pressure control.
- Working load limit of height-adjustable versions in retracted position will be increased as per positive working automatic pressure control up to the respective figure indicated in brackets.
- Manually adjustable pressure-reducing valve.
- Oil pressure gauge.
- 4 hanging eyes for cables or straps/belts.
- Light-weight construction in high-tensile steel.

Type	Inside Height mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Opening Width mm (in)	Working Load Limit/ WLL kg (lbs)	Gripper Base Length mm (in)	Order-Number
<b>AKZ-H-UNIGRIP</b>	1,100 – 1,650 (43¼ – 65)	380 (840)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	1,900 / 1,350 (4,200 / 3,000)	720 (28¼)	<b>56100057</b>
<b>AKZ-UNI-H*</b>	1,100 – 1,650 (43¼ – 65)	385 (850)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	1,900 (4,200)	720 (28¼)	<b>56100101</b>

\* Expected to be available from the beginning of Q3 2022



GB2-N



GB2-Z

## Rubber Gripper GB2

Standard models have 2 rows of rubber metal bars.

- Light weight construction to fit all models.
- Choice of shape, lining and length, thus making the block loading grabs suitable to be used everywhere.
- Highly durable exchangeable rubber metal bars are used as gripping elements.

**GB2-N:** Two identical rubber rails 50 x 45 mm (2 x 1¾ inch).

**GB2-Z:** 1 x rubber rail 50 x 35 mm (2 x 1½ inch). 1 x wedge-shaped rubber rail 60 x 40/34.

Type	Length of Gripper mm (in)	Dead Weight kg (lbs)	Quantity Pieces	Order-Number
<b>GB2-720-N</b>	720 (28¼)	11 (25)	1	<b>47451030-0720</b>
<b>GB2-1000-N</b>	1,000 (39¼)	15 (35)	1	<b>47451030-1000</b>
<b>GB2-1100-N</b>	1,100 (43¼)	17 (35)	1	<b>47451030-1100</b>
<b>GB2-1200-N</b>	1,200 (47¼)	22 (50)	1	<b>47451030-1200</b>
<b>GB2-1250-N</b>	1,250 (49¼)	24 (55)	1	<b>47451030-1250</b>
<b>GB2-0720-Z</b>	720 (28¼)	15.5 (35)	1	<b>47451010-0720</b>
<b>GB2-1000-Z</b>	1,000 (39¼)	21.5 (45)	1	<b>47451010-1000</b>
<b>GB2-1200-Z</b>	1,200 (47¼)	26 (55)	1	<b>47451010-1200</b>
<b>GB2-1250-Z</b>	1,250 (49¼)	27 (60)	1	<b>47451010-1250</b>



left: SWV below the rotator. right: SWV above the rotator

## Quick Change Device SWV

The Quick-Change-Device (SWV) simplifies the suspension of all types of grabs, including those already available, from one crane or from various cranes in a fleet.

When using the SWV quick coupling or screw coupling should be used for high-pressure hoses.

- An enormous amount of setting up time can be saved by using this device if the grab has to be taken down after each load.
- By using the SWV the driver can change over the attachment without additional help.

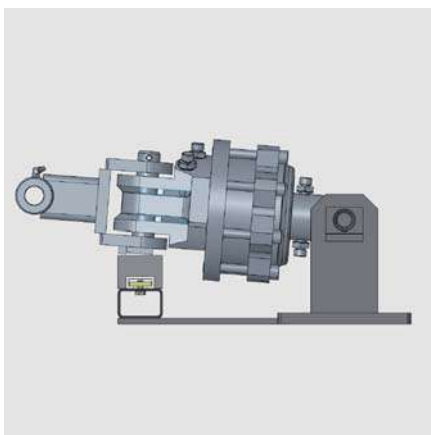
Type	Description	Dead Weight kg (lbs)	Order-Number
<b>SWV below the rotator</b>	The rotator remains on the cranes in normal circumstances	10 (20)	<b>46200001</b>
<b>SWV above the rotator</b>	rotator remains on clamp	10 (20)	<b>46200002</b>

Always state the type of rotator and crane when upon inquiry.

## Suspension Link

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>Below the rotator</b>	For adapting different types of rotary head to the tongs	4 (9)	<b>46200072</b>
<b>Above the rotator</b>	For adapting different types of rotator to the crane	4 (9)	<b>46200073</b>

Always state the type of rotator and crane when upon inquiry.



## Rotator Tilting Device

The tilting device reduces the overall height of the gripping device including the swivel head. This reduces the overall height of the vehicle when the boom is lowered and mounted. Recommended when using block loading grabs with a high inside height.

Rotator Tilting Device

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>Rotator Tilting Device</b>	Rotator for shaft	10 (20)	<b>46200071</b>
<b>Rotator Tilting Device</b>	Rotator for flange-connection	17 (35)	<b>46200082</b>



## Hydraulic Rotator

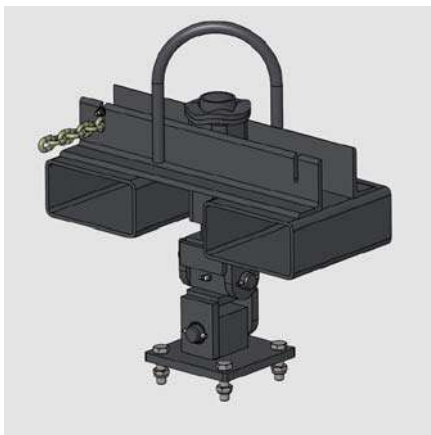
Rotator with hydraulic rotation plus 2 connection hoses to the clamp.  
Mounted between the gripper and the boom, the rotator enables the exact positioning of the grab when picking up and setting down the stone packs.

- Can be mounted directly on the body tongs by means of a flange connection.
- Hydraulic rotary feed-through allows operation of hydraulic consumers with one control circuit.

Rotator

Type	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Hydraulic Connection Volumetric Flow l/min (gpm)	Working Load Limit/WLL kg (lbs)	Angle Pivoting-/Rotation Angle ° Degree	Order-Number
<b>Continuous hydraulic Rotator</b>	34 (75)	200 / 250 (2,901 / 3,626)	22 (6)	4,500 (9,900)	360	<b>46200253</b>

Rotator also available with pivot.



## Fork Sleeves with lifting eye and manual device engaging ET-D

In a hodge after 90°. Enables the AKZ to be lifted by the forks of a wheel loader or forklift.

ET-D

Type	Description	Working Load Limit/WLL kg (lbs)	Order-Number
<b>ET-D</b>	Consisting of ET-D, incl. universal joint, mounting plate.	2,500 (5,500)	<b>43100238</b>





## Not turnable lifting hook DLH

For mounting on a hydraulic rotator to be able to lift loads with a chain hanger.

DHL. left: SWV top. right: DK with pin

Type	Description	Dead Weight kg (lbs)	Order-Number
<b>DLH</b>	For mounting under DK with pin	7 (15)	<b>40110077</b>
<b>DLH</b>	For mounting under SWV top	6 (15)	<b>40110073</b>

## Hydraulic Accessories

Type	Dead Weight kg (lbs)	Order-Number
<b>HD plug-in coupling sleeve KM 12L, component 3</b>	0.26 (1)	<b>22170002</b>
<b>HD plug-in coupling plug KS 12 L, component 3</b>	0.11 (0)	<b>22150007</b>
<b>HD screw coupling sleeve, SKM 12L, component 3</b>	0.3 (1)	<b>22170004</b>
<b>Screw coupling plug SKS 12L, component 3</b>	0.25 (1)	<b>22150003</b>



PGH-15-K

## Pallet Forks PGH with load-securing chain

For use with truck loading cranes and fork lift trucks.

Equipped as standard with security chain, thus approved as per rule EN 13155 for transport of individual loads (such as plastic coated, palletized loads).

Approved for use with truck loading cranes for unloading packs of building material at construction sites at near-ground areas without application of security chain.

Adjustable height and fork width (external).

We recommend the Quick Change Device SWV (see page 196) for use with truck loading cranes with a hydraulic rotator.

- Comes with hydraulically operated centre-of-gravity-balance, enabling the forks to tilt forward and backwards in the full and empty position.
- With rotator (additional equipment).
- Standard flange plate to mount the rotator or quick-change-device.
- Forks with long, conical taper for optimal insert underneath the pallets.
- Low payload loss on truck loading crane.
- Light-weight construction due to use of high tensile fine-grain steel.

Type	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Working Load Limit/WLL kg (lbs)	Fork Dimensions L x W x H mm (in)	Order-Number
<b>PGH-15-K</b>	140 (310)	180 – 210 (2,611 – 3,046)	1,500 (3,300)	980 x 100 x 40 (38½ x 4 x 1½)	<b>56000010</b>
<b>PGH-20-K</b>	150 (330)	180 – 210 (2,611 – 3,046)	2,000 (4,400)	980 x 120 x 40 (38½ x 4¾ x 1½)	<b>56000011</b>
<b>PGH-25-K</b>	230 (510)	180 – 210 (2,611 – 3,046)	2,500 (5,500)	980 x 100 x 45 (38½ x 4 x 1¾)	<b>56000025</b>
<b>PGH-30-K</b>	270 (600)	180 – 210 (2,611 – 3,046)	3,000 (6,600)	1,160 x 125 x 45 (45¾ x 5 x 1¾)	<b>56000024</b>

## Service





## After Sales/Warranties

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By purchasing a Probst product you have chosen a quality product which has been developed and tested as a result of over 60 years experience. We provide a 1-year warranty for normal use on all new components manufactured by us or a 6-month warranty for shift operation, provided there is evidence of material or manufacturing fault or that a warranted feature is missing. For used parts the warranty is reduced by half in each case. Wearing parts are excluded. If, despite thorough controls, a fault should occur in your Probst product, the complete device should be sent to us, together with the invoice or delivery note and a completed returns form:

**Probst GmbH**  
Technic Centre  
Gottlieb-Daimler-Str. 6  
71729 Erdmannhausen  
Phone + 49 7144 3309 30  
E-Mail: [service@probst-handling.com](mailto:service@probst-handling.com)

The returns form can be found on our website [www.probst-handling.com](http://www.probst-handling.com)

An overview of spares can be found in our current operating manual which is supplied with each Probst product. We are happy to send you another copy of this.

If the repair is carried out after the warranty has expired or is due to improper handling, we will send you an estimate of cost together with a request for your approval.

Overview of the Probst service terms and conditions:

Service provision	Order-Number	Price in Euro
<b>UVV test Probst small appliances flat rate*</b>	<b>90010001</b>	<b>85,- *</b>
<b>UVV test Probst large appliances including Probst accessory*</b>	<b>90010002</b>	<b>160,- *</b>
<b>Inspection of electrical work equipment according to VDE 0701-0702</b>	<b>90010020</b>	<b>30,- *</b>
<b>Customer service high (for Probst large appliances)*</b>	<b>90010003</b>	<b>380,- *</b>
<b>Customer service low (for Probst large appliances)* <sup>1)</sup></b>	<b>90010004</b>	<b>195,- *</b>
<b>Customer service low (for Probst small appliances)* <sup>1)</sup></b>	<b>90010005</b>	<b>105,- *</b>
<b>Service pack 1 large appliances (CS high + UVV)*</b>	<b>90010006</b>	<b>490,- *</b>
<b>Service pack 2 large appliances (CS low + UVV)*</b>	<b>90010007</b>	<b>305,- *</b>
<b>Service pack 3 small appliances (CS low + UVV)*</b>	<b>90010008</b>	<b>160,- *</b>
<b>Travelling expenses for service technician visit</b>	<b>90010009</b>	<b>0,99/km</b>
<b>Journey time</b>	<b>90010012</b>	<b>70/h</b>
<b>Working time</b>	<b>90010011</b>	<b>75/h</b>
<b>Overnight costs for service technician</b>	<b>90010010</b>	<b>75/Night</b>

<sup>1)</sup> For Probst UNIPOSE, POWERPLAN and laying machines VM, we make a surcharge of 170 EURO (customer service high) and a surcharge of 100 EURO (customer service low).

For on-site service the journey will also be charged.

\* Without spare parts and any possible repair costs incurred



## 1. Preamble

The conditions stated in the following are valid for each order; they exclude the conditions of the Purchaser even if not contradicted expressly. Other Agreements and later modifications are in any case only valid by written confirmation.

## 2. Offer

All documents belonging to the offer like drawings, indications of weights and measures constitute an approximate guide. The data shall not be binding save to the extent that they are by reference expressly included in the offer. Any drawings or technical documents as well as preliminary quotations and other documents remain the exclusive property of the Vendor. These confidential documents may not, without the Vendors consent, be utilized by the Purchaser or copied, reproduced, transmitted or communicated to a third party. Orders and agreements of all kind need the written confirmation by the Vendor.

## 3. Prices

The prices are quoted ex works, packing excluded, without engagement. The prices stated in the order-confirmation are fixed, except there are agreed free prices due to long delivery times.

Invoiced will be the prices which are valid on the date of delivery. For orders with a net value of goods up to € 50,- we charge an additional surcharge for small quantities of € 15,-.

## 4. Delivery

The agreed delivery time starts with the date of order-confirmation, however only if all details regarding the execution of the order will be clarified. Acts of God and other circumstances which are beyond the control of us and of our suppliers like transport disturbances or operating breakdown, lack of material or of parts from suppliers authorize us to claim an adequate extended term.

Purchaser's claims for damages due to failure to perform or delay are excluded if we are not willfully responsible for the damage.

The term of delivery is kept when the product has left the works or it is advised ready for dispatch within the agreed time.

Should delay in delivery be caused by the Purchaser, he will be charged for each month with at least 1/2% of the total invoice amount beginning one month after dispatch date thus covering the costs which arise by storage in the Vendor's works.

The fulfilment of contract by the Purchaser is a precondition for the keeping of delivery times by the Vendor.

## 5. Packing, Transport, Risk

The kind of packing, way of despatch and shipping route is determined by the Vendor except if there is a special previous agreement.

The costs and risks for the transport of the goods are to be beared by the Purchaser. Provided that no other instructions are given by the Purchaser, we organize the transport by the way that seems best to us without taking responsibility for having chosen the utmost favourable and shortest way.

The Purchaser bears every risk as soon as the merchandise is handed over to the transport agent or carrier.

An insurance against transport damages will only be effected if it is expressly desired by the Purchaser and the costs will be invoiced to him.

In case of transport through the Federal Railway Company or a forwarding agent the Purchaser has to take care of the settlement of his claim by himself.

The maturity for our request of payment is not affected.

## 6. Subject of Contract

The statements regarding measurements, weights, material and services are carefully stated by the Vendor however not binding, except they are expressly determined to be binding. This is also concerning all statements on construction and suggestions for construction. The Vendor reserves the right for modifications due to technical progress. Any drawings, samples or documents of the Vendor remain the exclusive property of the Vendor. They may not without the Vendor's consent be passed on to a third party. This is to point out the Vendor's copyright. The contractual characteristics of the goods are only relating to our product-description and to the written agreements.

Unilateral expectations of the Purchaser as well as advertisements or other comments of the Vendor or his assistants are not taken into consideration.

Demonstration-products, tools and other equipment needed for the execution of an order, remain the Vendor's property, even if the Vendor partially invoices the costs.

## 7. Guarantee

Provided that it is not about insignificant fault, the Vendor performs under exclusion of other claims for faults of the delivery to which belongs also the absence of strictly guaranteed or guaranteed qualities, guarantee as follows: for all brand new parts produced by us we take over the guarantee for 1 year in the normal use, 1/2 year in the shift work so far material defects or production mistakes or the absence of guaranteed qualities are proved. For used parts the warranty is reduced by half in each case. The warranty period is 6 months commencing with delivery (Wearing parts are excluded). If the dispatch, the installation or the introduction is delayed without fault of the Vendor, the liability expires not later than 18 months after transmission of risk. Rubber bars used as gripping elements are wear articles and are not subject to the guarantee. Faults by incorrect assembly or initial start-up, unsuitable or inappropriate use or changes or repairs by the Purchaser or third persons, natural wear, incorrect or careless treatment, excessive strain, unsuitable methods of operation, exchange materials, chemical, electro-chemical or electric influences expels every guarantee, provided that they are not to be led back on a fault of the Vendor. Further rights, particularly claims to substitute of the losses which have not appeared in the subject of delivery themselves, are expelled.

Notices of defect within the above stated frame are only recognized if they are asserted within two weeks after reception of the goods, with first not recognizable fault immediately after knowledge by written statement. Objections on the amount are only considered if they are brought forward immediately on receipt of the consignment in written form. The examination and reprimand obligation also encloses operating instructions and assembly instructions.

Also damages which are subject to the guarantee have to be indicated immediately in writing. A claim to transformation or decrease does not exist, unless we are not able the lack to repair. To the realization of all repairs inevitably appearing to the Vendor and substitute deliveries the customer after communication with the Vendor has to give the required time and opportunity, otherwise the Vendor is freed from the liability for defects.

Only in pressing cases of the endangering of the operational safety and to avoid disproportionately big losses, whereby the Vendor is to be informed immediately, or if the Vendor is in delay with the removal of the lack, the customer has the right to allow to remove the lack by third persons and has a claim for reimbursement of wasted expenditure towards the Vendor. Further claims, e.g., substitute of wage or spoiled equipment, etc., are expelled.

Repair or substitute is our choice. If the parts are returned not free of charge so they will be sent back also not free, i.e. a freight way is carried by us with the cheapest way of dispatch.



The guarantee expires if the subject of delivery is treated by foreign party, also with pressure of time an other treatment needs our consent in particular. We are not responsible for failures as a result of bad assembly by the customer or third persons, of bad maintenance or carelessness, of unsuitable or inappropriate use or of excessive use.

Precondition for the guarantee is the fulfillment of the contractual obligations by the Purchaser. Because of the notices of defect about which no doubt exists, payments may be held back only in the appropriate relation to the appeared lack. Particularly no compensations may take place against earlier or later deliveries. Returns need the previous agreement of the Vendor.

## 8. Right to rescind of the Purchaser and other liability of the Vendor

The Purchaser can withdraw from the contract if the whole performance is definitively impossible before risk transfer or the delivery within an appropriate term which may not remain under a month, did not take place, unless, the performance hindrance is to be represented from the Vendor at least mainly or it is about a case of point 6. paragraph 4. As far as partial performances are possible and for the Purchaser useful also after ending of the contract, the right to rescind limits itself to the parts not yet performed.

If the impossibility enters during the acceptance delay or by fault of the Purchaser, he remains obliged to do the settlement. If partial performances have already taken place for the purposes of the paragraph 1, a compensation claim also exists in this respect. The Purchaser has furthermore a right to rescind if the Vendor has passed inactively an adequate extension placed to him for the repairing or reworking due to a failure to be represented by the Vendor in the sence of these terms of delivery. If the Vendor decides on an extended elimination of the lack, the Purchaser only has a right to rescind if the elimination of the lack has failed two times. The appropriate extension does not begin earlier, than the lack and the representation obligation of the Vendor are determined and proved. The Purchaser can also assert reduction instead of his right to rescind. If the Purchaser or a third person makes inappropriate changes or repairs without previous approval of the Vendor, there is no liability of the Vendor for the consequences appearing from it.

The liability of the Vendor is determined exclusively according to the preceding points of this agreement. All not strictly admitted rights there, e.g., on delivery of a faultless product, resignation of the contract or decrease as well as on substitute of losses of every kind, namely also from such losses which have not appeared in the subject of delivery and regardless of any legal argument, are excluded. This exclusion of liability applies not with intention and gross negligence of legal representatives or fulfillment assistants and by culpable violation of main liability. The exclusion of liability finds no further application if qualities which are strictly guaranteed are missing, if the warranty has just aimed to safeguard the buyer against the losses which have not appeared in the subject of delivery themselves, as well as if the damage is based on a circumstance, for which the Vendor has taken over a guarantee. The same applies if a procurement risk realizes which the Vendor has explicitly taken over. Finally, the exclusion of liability applies not in that cases in which according to the country right valid in each case a damages obligation exists which can not be expelled by contract, particularly for product liability. Except for losses for life, body and health and for intention and coarse negligence of legal representatives and fulfillment assistants, the extent of the damage to be replaced is limited however, on foreseeable losses.

## 9. Payment

The settling place for payment and the currency are agreed especially.

A delay in payment or a setting off is only acceptable in case of undisputed or legally binding counter-claims.

If the financial situation of the Purchaser gets worse after agreement to the contract essentially and is thereby endangering the payment entitled to the Vendor, the Vendor is entitled to refuse the performance, until the settlement is effected or is performed safely for him.

## 10. Delay in Payment

If the Purchaser does not keep to the arranged term of payment, we charge from maturity for interests by the legal height according to German law. Before payment of payable amounts the Vendor is not obliged to do any other delivery, as far as the Purchaser does not perform safely for this. In case of outstanding overdue payment, indebted by the Purchaser, all unpaid invoices of the Vendor become immediately payable.

## 11. Retention of title of ownership

Up to entire satisfaction of all claims from the business connection remain the supplied goods property of the Vendor. The Purchaser has to keep the goods duly and to insure them. If the Purchaser is late with payable payments in more than 10 workdays the Purchaser is obliged on demand of the Vendor to return the supplied goods, without the Vendor must explain before the withdrawal of the contract.

## 12. Acceptance, call, right to rescind of the Vendor

On call bought goods are to be accepted within a month after demand to takeover. If the Purchaser is in acceptance delay, the Vendor can store the goods at the expenses and risk of the Purchaser and can invoice him all expenses appearing from it. The same applies if due to circumstances attributed to the Purchaser, goods ready for dispatch can not be dispatched. If the Purchaser continues to delay acceptance of the goods in spite of passed time-limit, is a payable payment more than 30 days in the delay or commits the Purchaser another weighty breach of the contract, the Vendor is entitled to the withdrawal of the contract and to claim for damages.

## 13. Arbitration board, place of delivery, other rights

The rights of the Purchaser are not transferable.

The legal ineffectiveness or change of single regulations do not touch the validity of the rest regulations.

To the place of an ineffective regulation that permissible regulation should step which comes to the economic thought of the ineffective regulation in the next. Place of delivery for all deliveries is the manufacturing work of the Vendor, in Erdmannhausen, as far as no divergent agreement has been met. The preceding conditions apply to every order. Other conditions are for the Vendor only bindingly if he has recognized them in writing.

On the contract the right of the Federal Republic of Germany is applicable under exclusion of the agreement of the United Nations from the 11/04/1980 about contracts about the international goods purchase.

All disputes which arise in connection with the contract or about its validity, are decided according to the arbitration board order of the German Institution for Arbitration Board Ability Inc (DIS) under exclusion of the neat course of law finally. The arbitration board also can make a binding decision about the validity of this arbitration agreement.

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## 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.**

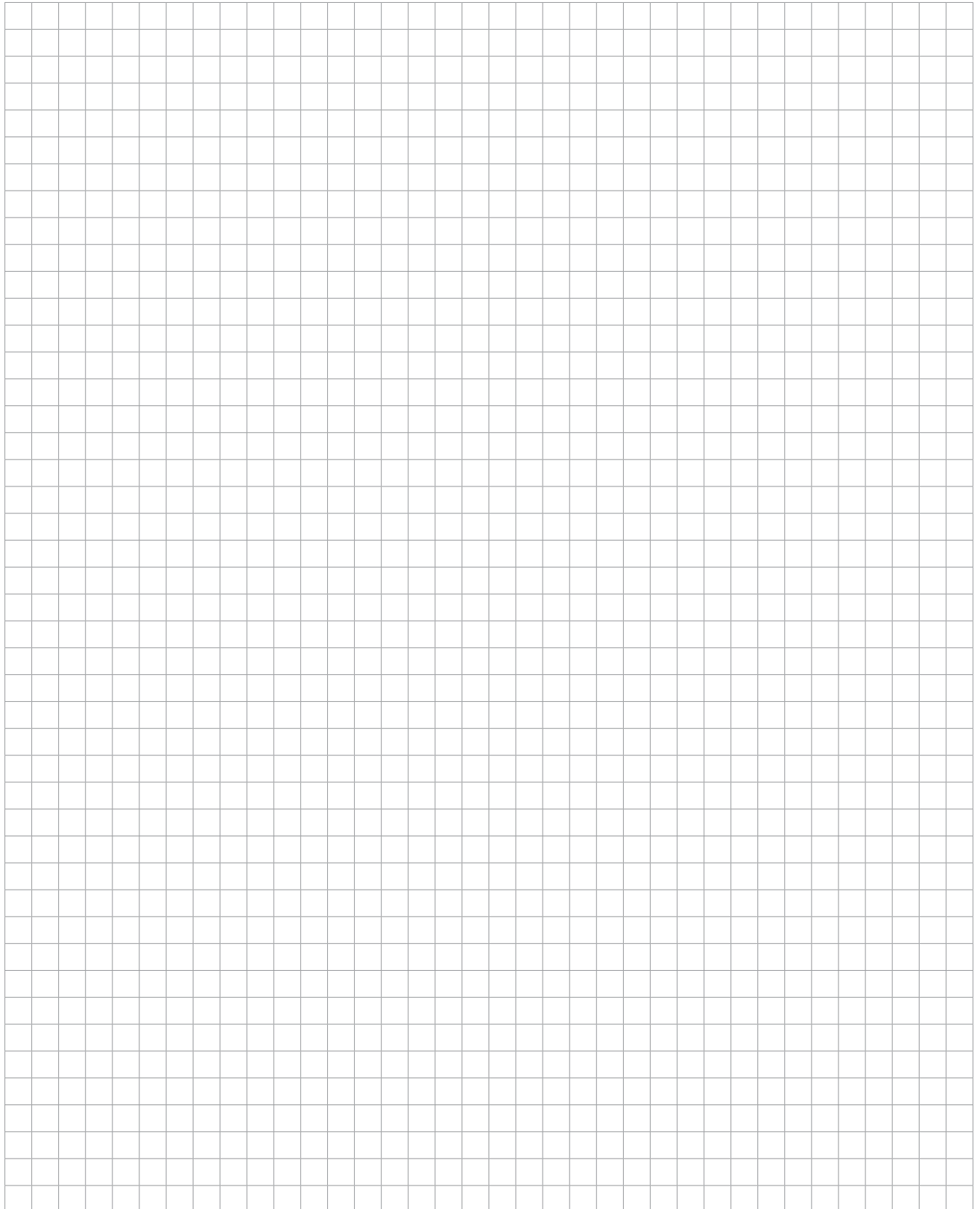
Sketch/drawing





This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.







# **making hard work easier**

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