



Product Catalogue 2021

Site Equipment

Building Material Plants – In-Plant Handling

Truck Crane Attachments

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Site Equipment



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 using the right equipment.

You can prevent the strain of the back 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 an extreme durability and efficiency.

As universal as possible – as special as needed!

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

Makes your job more easy ...

Paver Installation Machines



VM-301-GREENLINE with HVZ-UNI-II



VM-301-KJ-PAVERMAX with HVZ-UNI-II

Probst paver installation machines offer simple handling, user-friendly operation, efficiency and first-class performance.

The modern and innovative concept of the installation machines provides modern conveniences with many user-friendly features.

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, ensuring safety and quality work.

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. Different track widths of the front and rear axle ensure low degree of stress on uncompacted pavers.

Laying clamp with automatic pushing-off device guaranty for exact joint widths, to comply with the standards

With the hydraulic laying clamp, layer after layer is pushed into the bedding sand. The pavers cant twist during the installation process, but they are laid exactly. The manual repositioning of the pavers by hammering into a correct pattern is not required anymore. Some paver installers which have worked with laying clamps without ADV technology, tend to do the hammering even when working with the ADV technology now. This is unnecessary, costs a lot of labour, time and money and can even be harmful. Harmful because hammering means pressed joints which are not complying with the standards. The standards ask for joint widths between 3 and 5 mm. Concrete paving blocks are manufactured with the so called spacer bars all around the sides of the pavers having a thickness of 2.7 up to 3 mm.

The laying clamp compresses the layer from 4 sides so all pavers are pressed together, the spacer bars are touching the next block. Once the clamp is opened and the ADV pushes the blocks down into the laying course, the pavers tend to creep apart a little bit. The joints are widened by this to about 0.4 to 1.0 mm in addition to the thickness of the spacer bar.

If the joints are driven together by unnecessary hammering, the spacer bars once more touch the next paver, in this case the joints will be too narrow and the specifications are not met. The stability of the pavement cannot be assured.

Highest gripping security

Independent, spring loaded steel grippers ensure a firm grip on single blocks when carrying large layers of paving blocks. The powerful side-clamping arms are easily able to shift rectangular pavers into the running bond by using the shifting adapter sets PA. When laying herring bone patterns, the herring bone adapter FA can be used to avoid the necessity of half blocks at the layers.

Universal

The VM-301-PAVERMAX and VM-301-Greenline 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 as shown in this catalogue.

All new developments Probst will design, will be downwards compatible to the existing machinery.



VM-301-GREENLINE with HVZ-UNI-II

Installation Machine VM-301-GREENLINE

Installation Machine VM-301-GREENLINE – the new dimension 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)	Dead Weight kg (lbs)	Weight Paver Layer kg (lbs)*	Height Lifting mm (in)	Working Load Limit/WLL kg (lbs)	Turning Radius Total mm (in)	Order-Number
VM-301-GREENLINE	Basic device installation machine without laying clamp HVZ	210 – 315	8 / 5	48	6 / 11 (4 / 7)	1,340 (2,950)	320 / 380 (710 / 840)	1,600 (63)	650 (1,430)	2,450 (96½)	51500024

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



VM-301-GREENLINE with HVZ-UNI-II

- Fully glazed tubular steel cabin as weather protection with heating and windscreen wiper.
- With Continuous hydraulic rotator.
- With 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 pedals.
- With standard built-in radio.

Accessories

Type	Description	Order-Number
Accu-48V/105Ah	Battery for VM-301-GREENLINE	24200146
Extra weight	To increase the working load limit to 380 kg	41500357
Exterior mirror	Retrofit kit	41500358
Mounting bracket	For light package and/or exterior rear-view mirrors (is only required once)	41500739
Windscreen washer	With adjustable spray nozzles on the windscreen wiper arm. Without adjustable wiping interval. Retrofit kit for VM-301-K/VM-301-GL	41500788
LED-Light kit VM-301-GL	2 x LED headlamps, 1 x LED rear light	41500977
LED-Turning Light	incl. fold-out foot	41500978
Reversing alarm	for VM-301-GL	41500983
Adapter QJ	for Rotator Bini/Baltrotor	40110319



VM-301-PAVERMAX with HVZ-UNI-II

Installation Machine VM-301-PAVERMAX

Universally suitable for laying all paving stone installation units available on the market.

With Continuous hydraulic rotator.

A 3-cylinder-Kubota-Diesel-engine 18.5 KW/ 25 hp means high performance reserves.

Complies with EU emission regulations level V and TIER IV final (USA), no restriction in environmental zones, as engine power < 19 kW.

The corresponding attachment set is required for attachment of the respective hydraulically powered vacuum device: (vacuum attachment not included)

VM-301-KJ-PAVERMAX: With complete cabin made of safety glass, heating and windscreen wipers. With electronic joystick with arm support instead of mechanical cross control lever to control main/side gripping width and rotator. With vacuum function.

- Sensitive hydrostatic front wheel drive.
- Extra wide types and the differing track widths of the front and rear axle ensure a low degree of stress on the uncompacted pavers as well as a smooth drive.
- Wide diameter tyres and high ground clearance, therefore suitable also in rough terrain.



VM-301-KJ-PAVERMAX with HVZ-UNI

Type	Description	Type of Drive Diesel Engine kW	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
VM-301-PAVERMAX	Basic device installation machine without laying clamp HVZ, incl. hydraulic rotator	18.5	16 (10)	320 / 380 (710 / 840)	1,080 (2,380)	1,600 (63)	600 (1,320)	2,450 (96½)	51500020
VM-301-KJ-PAVERMAX	Like VM-301-PAVERMAX, but additionally equipped w/ complete cabin and electronic joystick.	18.5	16 (10)	380 / 440 (840 / 970)	1,200 (2,650)	1,600 (63)	650 (1,430)	2,450 (96½)	51500023



VM-301-PAVERMAX with HVZ-UNI-II

- 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 tight areas. All outer edges are adapted to the steering geometry which means if there are barriers there are no protruding vehicle parts.
- High lifting height enables the handling of double stacked packs up to a height of 1,600 mm, thus saving a considerable amount of driving-time.
- Narrow swing means that, even at a high lifting height, the positional stability of the machine is not affected. This, combined with a low overall height, is important when operating in underground car parks.
- High degree of stability, even in tight turns, is ensured by the low centre of gravity and the advantageous weight distribution achieved by a new arrangement of the chassis, beam and hydraulic unit system.
- Unlimited all-round-view for the driver, important when travelling backwards.
- Ergonomical positioning of the seat, steering wheel, operating lever and pedals.
- An exceptional driver's seat ensures great comfort for an 8-hour working day.
- Wide-diameter tyres and elastic clamp suspension give a smooth driving effect.
- Large transparent fuel tank with 20 l capacity.

Accessories

Type	Description	Order-Number
Radio attachment kit	for VM-301-K	41500939
LED-Light package VM-301	2 x LED headlamps, 1 x LED rear light	41500910
LED-Light package VM-301-K	2 x LED headlamps, 1 x LED rear light	41500911
LED-Turning light	incl. fold-out foot	41500913
Reversing alarm	for VM-301/203	41500343-003
Exterior mirror	Retrofit kit	41500358
Mounting bracket	For light package and/or exterior rear-view mirrors (is only required once)	41500739
Extra weight	To increase the working load limit to 380 kg	41500357
Diesel particle filter DPF	Retrofit kit for VM-301-K and VM-301	41500784
Filter Cartridge	for Diesel particle filter DPF	26900034
Windscreen washer	With adjustable spray nozzles on the windscreen wiper arm. Without adjustable wiping interval. Retrofit kit for VM-301-K/VM-301-GL	41500788
PJ-1650-H/Retrofit kit		41500755
Adapter QJ	for Rotator Bini/Baltrotor	40110319
SH-1000-MINI-H/Retrofit kit		41500756
Maintenance Contract	Basis-Service -further services available on request	90010050

Diesel Particle Filter DPF:

- 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.

*At adequate driving speed and lowered load. Max. weight of paver layer VM-301-PAVERMAX: 320 kg (380 kg with extra weight), VM-301-KJ-PAVERMAX: 380 kg (440 kg with extra weight)

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Hydraulic Installation Clamps

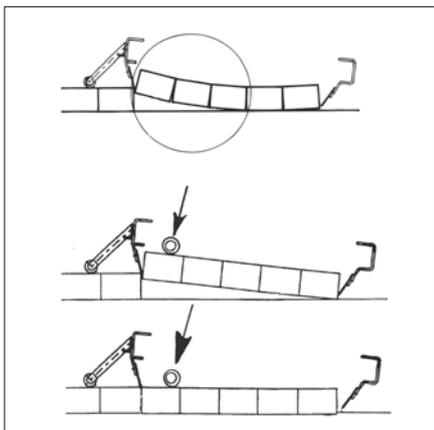
These two hydraulic installation clamps are universally suitable for laying all paving stone installation units available on the market when combined with the various carriers such as installation machines VM, hydraulic excavators and wheel loaders.

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.
- 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.



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



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 off the main and side clamping width made simple and 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 undentated 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 Volumetric Flow l/min (gpm)	Hydraulic Connection Pressure bar (psi)	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
HVZ-UNI-II for VM-301/203/ 204	225 (495)	50 – 160 (2 – 6¼)	15 – 75 (4 – 20)	200 – 320 (2,901 – 4,641)	20 (290)	580 – 1,260 (22¾ – 49½)	960 – 1,440 (37¾ – 56¾)	400 (880)	51400036
HVZ-UNI-II for VM-401	226.5 (500)	50 – 160 (2 – 6¼)	15 – 75 (4 – 20)	200 – 320 (2,901 – 4,641)	20 (290)	580 – 1,260 (22¾ – 49½)	960 – 1,440 (37¾ – 56¾)	400 (880)	51400037

Accessories

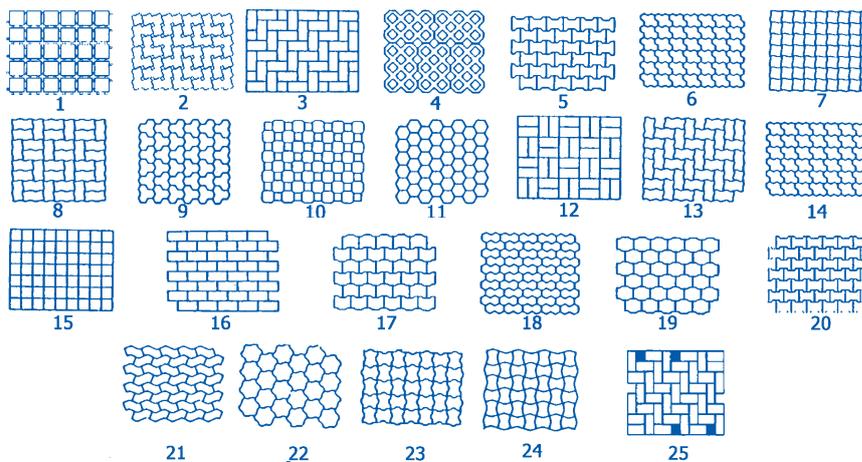
Type	Description	Dead Weight kg (lbs)	Order-Number
HVZ-UNI-II-PEA	Set of PE supports for height adjustment	10.5 (25)	41400986
Maintenance Contract	Basis-Service -further services available on request		90010050

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.

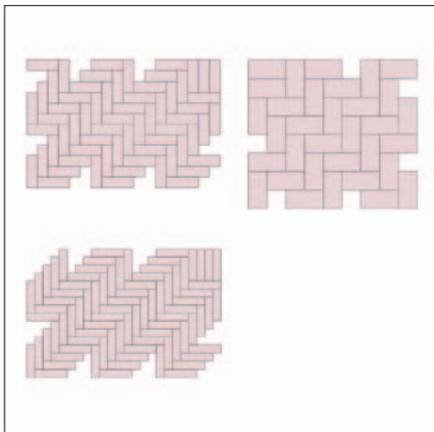
We have also the right solution for specialised types of stones and installations samples – talk to us!

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



Block layers

Hydraulic Installation Clamp HVZ-UNI-II-EK

The new 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.

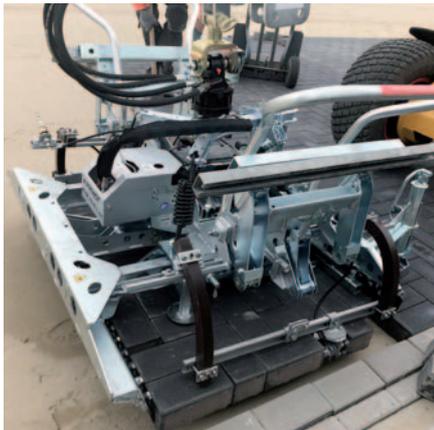
Fitted onto a paving installation machine, the simplified automatic programme sequence allows even inexperienced drivers to achieve good laying performance very quickly.

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



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

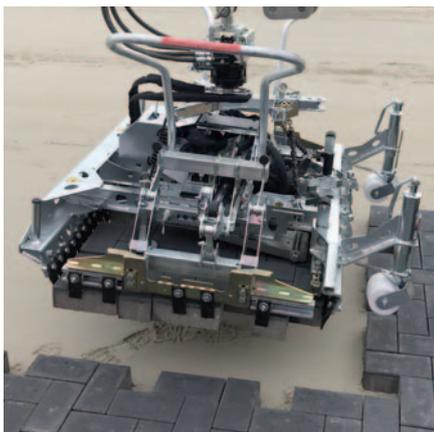
Paving Claw Adapter HVZ-UNI-II-PK-II

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
HVZ-UNI-II-PK-II	45 (100)	41401069



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
HVZ-FA-RE	35 (75)	41400557-009

1



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.

No pushing-off device (ADV).

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 Pressure bar (psi)	Hydraulic Connection Volumetric Flow l/min (gpm)	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)	160 – 320 (2,321 – 4,641)	15 – 75 (4 – 20)	20 (290)	570 – 1,180 (22½ – 46½)	400 (880)	51400035

Accessories

Type	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
Lifting eye for attaching to crane hook	0.9 (2)	1,000 (2,210)	31010004



Hydraulic Installation Clamp HVZ

Adapter

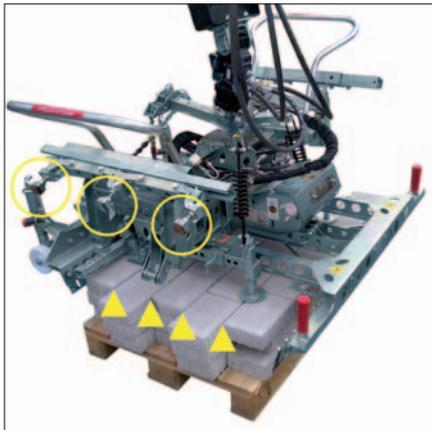
For some installation units it can be advantageous or even necessary, predominantly for the side grippers, to use a special adapter in order to achieve optimal gripping. The shifting adapter is used with rectangular stones, for instance, to shift pavers into the running bond. (Please, indicate stone 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).

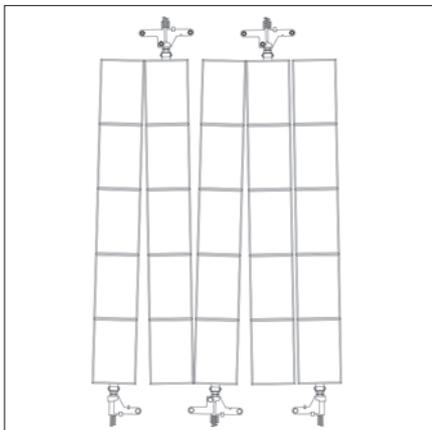
FA for HVZ-UNI

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

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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.

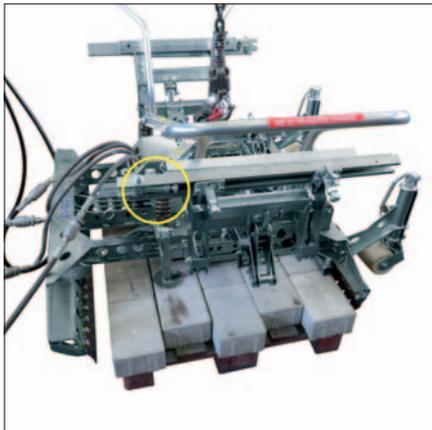
The pavers can then be shifted without damage; the spacers are undamaged and there is no damage on the pavers themselves.

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

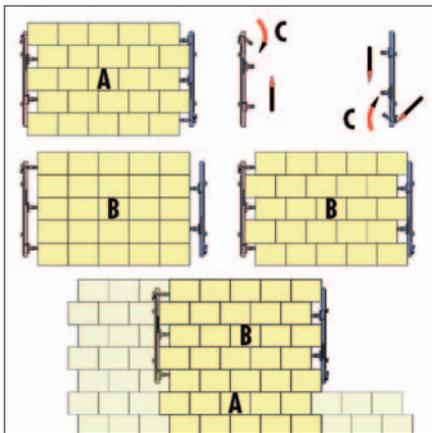
The shifting adaptor can be easily retro-fitted onto the C-profiles on the side gripping width of the hydraulic installation claws of the HVZ-ECO, HVZ-GENIUS, HVZ-GENIUS-II, HVZ-UNI and HVZ-UNI-II (with automatic programming on the VM-401).

■ Durable surface protection by galvanizing.

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



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.

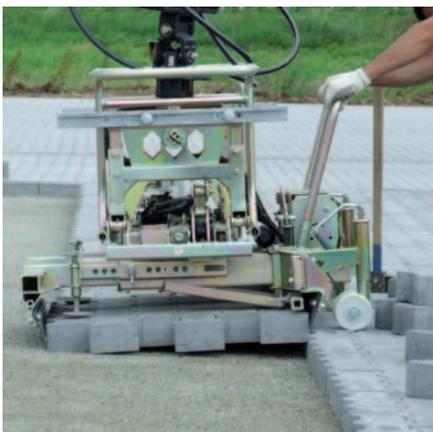
With a C grip, it is now possible by simple shifting of the two position adapters and by folding in and out the third position adapter, to adjust the side gripping width on which side 2 or 3 blocks are shifted into the 1/3 running bond.

The shifting adapter 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 RowsxStones/Row	Order-Number
HVZ-VA-180°-24/16-5x5	240 x 160 (9½ x 6¼)	13 (30)	5 x 5	41400988

1



Your excavator can lay paving blocks as well ...

... with the hydraulic excavator add-on clamp unit made by Probst

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

- A reduction in downtime as the excavator can be used more frequently on-site.
- Fully automated movement sequences equals easy operation for experienced excavator operators. 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.

Slab grab used in combination with excavator



HVZ-GENIUS-II

German Patent

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 long and 10 Positioning Adapters to shift pavers by 100 mm.

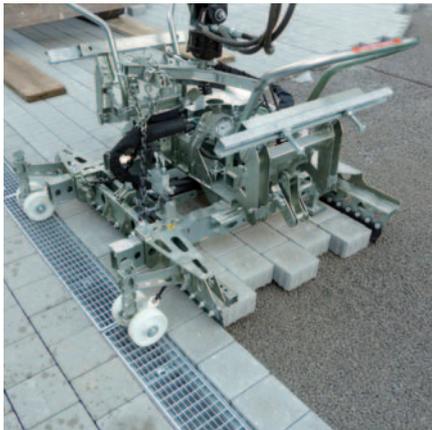
Type	Weight Operating Weight-min, Excavator kg (lbs)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Hydraulic Connection Backflow Pressure, max bar (psi)	Hydraulic Connection Volumetric Flow l/min (gpm)	Hydraulic Connection Pressure bar (psi)	Opening Width Side Gripper mm (in)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
HVZ-GENIUS-II	3,500 (7,700)	362 (800)	50 – 160 (2 – 6¼)	10 (145)	25 – 80 (7 – 21)	180 – 320 (2,611 – 4,641)	960 – 1,440 (37¾ – 56¾)	580 – 1,470 (22¾ – 57¾)	400 (880)	51400042

Accessories

Type	Description	Order-Number
Maintenance Contract	Basic-Service – further services available on request	90010052

German Patent

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.

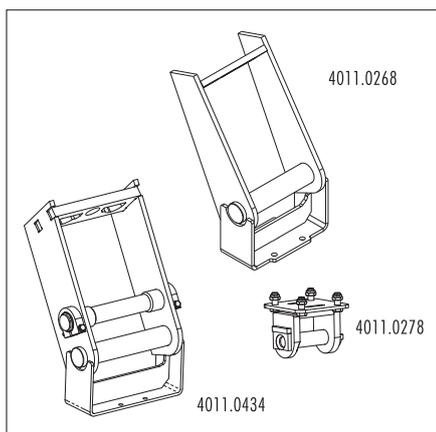
Scope of delivery

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

Type	Weight Operating Weight-min, Excavator kg (lbs)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Hydraulic Connection Backflow Pressure, max bar (psi)	Hydraulic Connection Pressure bar (psi)	Hydraulic Connection Volumetric Flow l/min (gpm)	Opening Width Main Gripper mm (in)	Opening Width Side Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
HVZ-ECO	2,500 – 2,800 (5,500 – 6,200)	250 (550)	50 – 160 (2 – 6¼)	10 (145)	180 – 320 (2,611 – 4,641)	25 – 80 (7 – 21)	580 – 1,260 (22¾ – 49½)	960 – 1,440 (37¾ – 56¾)	400 (880)	51400034

Accessories

Type	Description	Dead Weight kg (lbs)	Order-Number
HVZ-ABA	Support for excavator adapter	5.3 (10)	41401008
HVZ-ECO-PEA	Set of PE supports for height adjustment		41401058
Maintenance Contract	Basic-Service -further services available on request		90010052



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

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

LSW



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.

UBA-1200

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

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
VTK-V	200 (7¾)	68 (150)	900 (35½)	550 – 1,050 (21¾ – 41¼)	400 (880)	51100015

Accessories

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



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.

PW-III

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 (49¼ x 49¾)	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-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 m² of surface can be grouted in 40 minutes.

The battery 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	Order-Number
ACCU-82V/5Ah	Battery for EF-H-GREENLINE	5	82	24200148
EF-H-LG-220V/82V	Battery charger for EF-H-GREENLINE			24110216
EF-H-LG-110V/82V	Battery charger for EF-H-GREENLINE-110			24110221
Brush for EF-H				41700002
Maintenance Contract	Basic-Service – further services available on request			90010052



EF-H with forward drive!

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 Relief 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.
- Fine Dosing of Water with tap integrated in handle.
- Honda 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	Description	Order-Number
Brush for EF-H		41700002
Maintenance Contract	Basic-Service -further services available on request	90010052



EB-120/240

Sweeping Broom EB

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

- 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 of sand can easily be moved further on.
- With attachment device for laying machine VM 203/204/301/401 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
EB-120/240	Sweeping Broom complete incl. linkage	1,200 / 2,400 (47¼ / 94½)	105 (230)	51600021
EB-120	Sweeping Broom complete incl. linkage	1,200 (47¼)	64 (140)	51600019

Accessories

Type	Description	Order-Number
Brush	Brush for EB per piece	41600002



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 = 1 bar, 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 500mm 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	Order-Number
Spray Lance SL-8 and Chemical Kit CK		26110032
Dirt Drill DF		26110026
Sand Blasting Kit SSK	(0.1 – 0.5 mm grain quartz sand)	26110033
Maintenance Contract	Basic-Service -further services available on request	90010052



PP

POWERPLAN PP Screeding 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. The Screeding Machine POWERPLAN PP was specially designed to screed such bedding material without major wear on the machine.

Whether subbase, base or gravel (up to grain size 50), 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) – 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)	Dead Weight kg (lbs)	Weight Total Weight kg (lbs)	Length mm (in)	Payload kg (lbs)	Volume Hopper m ³ (ft ³)	Order-Number
PP	Screeding Machine	18.5	2,050 – 3,450 (80¾ – 135¾)	2.1 / 4.3 (1.3 /3)	2,526 (5,600)	6,000 (13,200)	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									41300005
NS-PP	Slope Sensor, installed in the middle of the machine									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	Order-Number
LS-PP	Laser Kit: 2 x laser receiver & case	41300006
LXS	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	24290024
TL-LXS	Telescopic Leveling Post	71150003
ST-LXS	Tripod for Laser transmitter	71150002
FSD-PP	Foldable and detachable sun/rain roof for the operator	41300004
Reversing alarm	for POWERPLAN PP	41300108
RKL-PP	Flashing Beacon	41300109
Diesel particle filter DPF	for POWERPLAN PP	41300192
LED-Light package PP	4 additional LED work lights	41300115
Maintenance Contract	Basis-Service -further services available on request	90010050

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.

German Patent

3



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 m³ 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 Width mm (in)	Working Pressure bar (psi)	Working Voltage V	Dead Weight kg (lbs)	Hydraulic Connection Volumetric Flow l/min (gpm)	Hydraulic Connection Backflow Pressure, max bar (psi)	Volume Shovel m ³ (ft ³)	Order-Number
LK-2200		2,200 (86½)	180 – 250 (2,611 – 3,626)	12	960 (2,120)	30 – 100 (8 – 26)	20 (290)	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.

Type	Description	Dead Weight kg (lbs)	Volume Shovel m ³ (ft ³)	Order-Number
LK-MUS-1300	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)		41300121
LK-KS	Hydraulic folding shovel for LK-2200	50 (110)	0.6 (21¼)	41300188
LK-SH2	1 standard ultrasonic sensor w/o side-shift function, incl. holder.			41300162
LXS	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			24290024
TL-LXS	Telescopic Leveling Post			71150003
ST-LXS	Tripod for Laser transmitter			71150002



TAK-350

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 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 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 and 7,500 mm can be achieved.

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

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



TAK-350

Telescopic Screeding Bucket TAK-DP

Special complete device for screeding of roof or pan profiles.

Type	Description	Dead Weight kg (lbs)	Length mm (in)	Order-Number
TAK-DP	adjustable adapter to screed any roof or pan profile (+/-3 %)	22 (50)	1,500 (59)	41000042



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).
- 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 long (30, 40, 69, 80) 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 long.

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



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



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 and 1,600 mm, 1 handle, 2 telescopic units each 350 mm

EP-UNI-Set 230/300: 1 Alu-Profile 2,300 mm, 1 three-dimensional handle, 2 telescopic units each 350 mm

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

Accessories

Type	Description	Dead Weight kg (lbs)	Length mm (in)	Order-Number
EP-UNI-RS	Set of Roller Units (can be added later)	4.8 (10)		41000165
1 Set of Telescopic Units	for EP-UNI 2 x 350 mm (13½")	3 (7)	350 (13¾)	41000164

German Patent



TP-150/260 with HG-TP mit HG-TP

TELEPLAN TP Handscreeding System

The new 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. Can be taken off quickly if required.

- Intergrated fitting for additional pulling handles HG-TP included in the side parts.
- One level indicator incorporated inside the TP profile.
- German Patent.
- The light-weight aluminium hollow profile is extremely sturdy (high-tensile material - weight is 1.3 kg per meter).
- Long Lifespan.

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

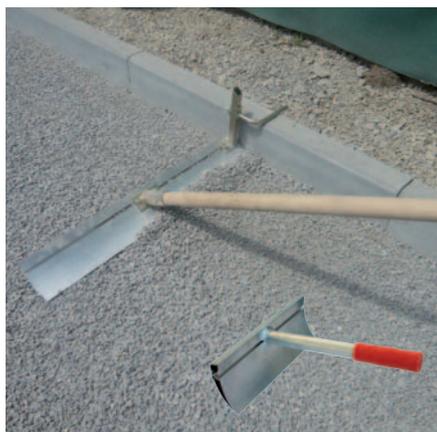
HG-TP: Handle TELEPLAN. Set of 2 pulling handles, allowing relaxed and ergonomically correct body position standing upright and not kneeling in the wet sand.

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

HGH-TP: 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 HG-TP.

Enables just one person to screed larger working widths in upright position easy-going and quickly.

Type	Dead Weight kg (lbs)	Order-Number
HG-TP	2.4 (5)	51010005
HGH-TP	0.8 (2)	51010008



MP-70 + HV-MP

MP-30

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.

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

Accessories

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



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
LH	300 (11¾)	1.8 (4)	0 – 250 (0 – 9¾)	51000088

LEVELFIX LF Manual Screeding System



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



LF-75/125

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.
- 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 exoriated 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: As LF-75/125, but 2 x roller units

LF-170/310: As 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), achieving highest strength and low dead weight.
- Simple, strong, integrated plug system by 2 conical bolts, plugs cannot be lost!
- Particularly handy:
- A cubical inclined plane of section gives inclined 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
AZL-Set-20	6 x 3 m, 2 x 1 m	40 (90)	20 (65½)	51000039
AZL-Set-24	6 x 3 m, 2 x 2 m, 2 x 1 m	48 (105)	24 (78¾)	51000014
AZL-Set-60	12 x 4 m, 4 x 2 m, 4 x 1 m	120 (265)	60 (196¾)	51000015
AZL-1	1 piece, 1 m long	2 (4)	1 (3¼)	51000017
AZL-2	1 piece, 2 m long	4 (9)	2 (6½)	51000020
AZL-3	1 piece, 3 m long	6 (15)	3 (9¾)	51000016
AZL-4	1 piece, 4 m long	8 (20)	4 (13)	51000019



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).
- Simple, robust, integrated plug system. Nondetachable!

Scope of delivery

AZL-EP Set: consisting of: 2 x 1,5 m, 4 x 2,5 m, 4 x 3 m.

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



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 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

Accessories

Type	Description	Order-Number
Spare blade short	(55 mm) per piece, loose	41800001
Spare blade short	(55 mm) 2 pieces in blister pack	41800242
Spare blade long	(65 mm) per piece, loose	41800003
Spare blade long	(65 mm) 2 pieces in blister pack	41800243



SZH

Block Extractor Hammer SZH

With the new SZH block extractor hammer, blocks can be removed amazingly easily with no damage whatsoever to the neighbouring blocks!

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.

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



SZH

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
SZH	Block Extractor Hammer	8 (20)	51800094

Accessories

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



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.

RE

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

Accessories

Type	Description	Order-Number
Spare blade for RE/MRE	per piece, loose	41800002
Spare blade for RE/MRE	1 piece in blister pack	41800241

German Patent



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. Alignment work is done 4 - 5 times quicker!

- 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 by hammer.
- Durable galvanized surfaces.“

MRE

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	per piece, loose	41800002
Spare blade for RE/MRE	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 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
GH-ERGO	2.9 (6)	1,000 (39¼)	51800113
GH-ERGO-K	2.5 (6)	400 (15¾)	51800114

Spare Part

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



top: PB-I, bottom: PB-15/24, 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 laid 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
PB-I	1.22 (3)	100 – 170 (4 – 6¾)	10 (20)	51800001
PB-15/24	1.42 (3)	150 – 240 (6 – 9½)	10 (20)	51800004
PB-15/24-L	2.3 (5)	150 – 240 (6 – 9½)	10 (20)	51800115



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
RVH	1 pair	5.32 (10)	51800021



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	1.2 (3)	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.
- 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.

Type	Description	Diameter outside mm (in)	Dead Weight kg (lbs)	Order-Number
ENZ	Pin Extractor	10 – 30 (½ – 1¼)	0.64 (1)	51800038



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

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
RSH	5 – 20 (¼ – ¾)	0.8 (2)	51800081



MAL

Measuring and Marking Tool MAL

An essential tool for precise measurement and marking of paving stones and panels, along lengths and around angles.

Type	Dead Weight kg (lbs)	Order-Number
MAL	0.58 (1)	51800026



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)	Order-Number
PM	120 x 30 x 2 (4¾ x 1¼ x 0)	51800069

German Patent

STRINGTIGHT SB



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

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. 4 – 5 mm 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 with a length of 100 m. Comes in a decorative promotional display rack each with 12 kits.

Type	Description	Dimensions L x W mm (in)	Order-Number
SB	STRINGTIGHT promotion display	120 x 120 (4¾ x 4¾)	51800072

Accessories

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



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.
- 400-600 % 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

QD

Type	Dead Weight kg (lbs)	Order-Number
QD	2 (4)	51800034



SA

STRING ALONG SA

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

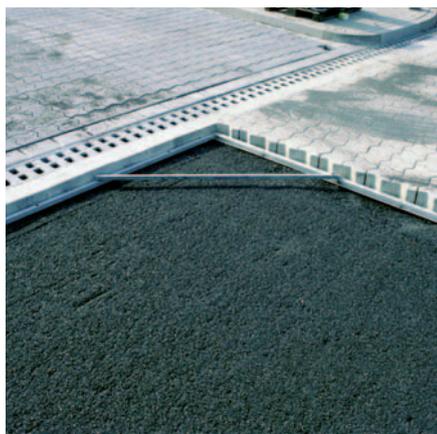
By undoing the spring bolt and turning the swivel arm, sleeve sections can also be gripped and laid. (external size see table, larger value)

- 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.
- Errors are avoided.
- 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)	Order-Number
SA	suitable for pin diameters max. 25 mm	25 (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
AW-60	600 x 600 (23½ x 23½)	0.72 (2)	51800052
AW-120	1,200 x 1,200 (47¼ x 47¼)	1.7 (4)	51800085



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: 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.

Work mode 2: 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.

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

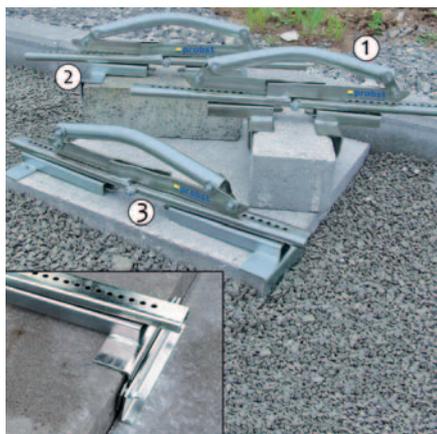
Scope of delivery

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

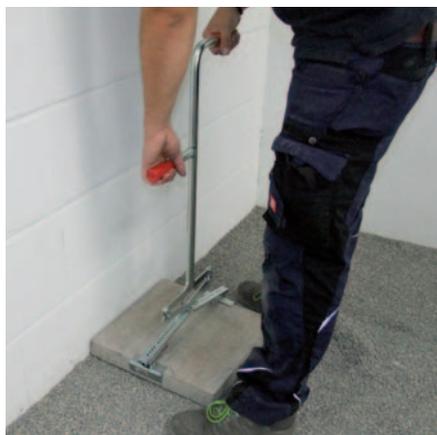


FMK

Type	Dead Weight kg (lbs)	Order-Number
FMK	3.1 (7)	51800074



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
PPH-10/37	1.54 (3)	100 – 370 (4 – 14½)	60 (130)	53200053
PPH-22/50	1.6 (4)	220 – 505 (8¾ – 20)	60 (130)	53200052
PPH-33/62	1.6 (4)	330 – 620 (13 – 24½)	60 (130)	53200054
PPH-S-10/62	3 (7)	100 – 620 (4 – 24½)	60 (130)	53200055

Accessories

Type	Dead Weight kg (lbs)	Length mm (in)	Order-Number
PPH-ERGO-HG	1.5 (3)	670 (26½)	43200124
PPH-AA	0.15 (0)		43200079
PPH-2-HG	2.42 (5)		43200085



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.

PZ

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 Part

Type	Description	Order-Number
Spare blade short	(55 mm) per piece, loose	41800001
Spare blade short	(55 mm) 2 pieces in blister pack	41800242
Spare blade long	(65 mm) per piece, loose	41800003
Spare blade long	(65 mm) 2 pieces in blister pack	41800243



SF



SAFEFLEX SF

German Patent

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.

- 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.
- No sliding of building materials while cutting.
- 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.
- Elevation of the material being cut, so cutting wheel does not go into the ground.
- 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 cm 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



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 cm 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.

- 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 or 180 mm, 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 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	50 – 340 (2 – 13½)	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. Simply brilliant.

- 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.
- 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.

Type	Width mm (in)	Width Cutting Width mm (in)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Order-Number
RSA-25	355 (14)	250 (9¾)	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 height difference, minimum stone length 180 mm.

- Integrated battery with charger.
- Durable surface protection by galvanizing.



Type	Description	Width Cutting Width mm (in)	Dead Weight kg (lbs)	Height Stone/Element mm (in)	Force Splitting Force kg (daN)	Order-Number
AL-43/SH-21-V	blade type B	180 – 420 (7 – 16½)	150 (330)	20 – 200 (¾ – 7¾)	21,000	51200052

Vacuum Technology

Benefits:

Compared to mechanical grabs, vacuum technology provides substantial and numerous benefits in handling and installation of building materials. This applies to In-Plant Handling and transport in concrete plants as well as to installation of material on site..

Significant Advantages:

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.

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

* 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 so 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 can be handled with specific vacuum devices and corresponding sealing systems.



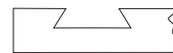
4. Products with deep unevenness, such as exposed aggregate surfaces are easy to handle with vacuum devices operated by a vacuum blower.



5. Sharp-edged products, with uneven and graded top up to approx. 3 mm are, if at all, solely be handled with vacuum devices equipped with a vacuum blower.



6. Other surface characteristics on request.



The smallest value always applies in the case of different load capacity specifications on the vacuum components used (lifting hose, suction plate, vacuum generator e.g. UNIMOBIL etc.).



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
VMK	390 x 330 x 180 (15¼ x 13 x 7)	4.8 (10)	52950003



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
UXP	0.4 (1)	0 – -1 (0 – -14.5)	22130014

max. 50 kg

VACUUM-HANDY VH

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.
- Durable surface protection by galvanizing.



VH-1/25



VH-1/25 with VH-2-HG

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

max. 25 kg

FLIEGUAN-HANDY FXH-25 Vacuum Hand Laying Device



FXH-25



... Good at arranging tiles.

The vacuum hand laying device for tilers and landscape contractors allows fast lifting, moving and laying of large tiles, natural stones and slabs with one hand, in a way that is easy on the back.

The FLIEGUAN-HANDY is placed on the tile or slab and pressed on very briefly with no effort, and it automatically sucks on by itself in a matter of seconds.

The tile can be lifted from the stack immediately and brought to the placement location.

With a slight finger movement, a spring-loaded vacuum valve is opened to deposit the tile.

Simply reclose it to pick up the slab again.

If the FXH is simply placed on a tile, a slab or the ground without being pressed on, then it is not sucked on, this protects the vacuum cleaner and saves energy!

- Suction plate in light aluminium.
- Can be connected to standard industrial vacuum cleaners (wet/dry vacuum cleaner with bypass valve for permanent cooling) using the vacuum hose and connecting cone supplied, or directly to the SPEEDY or QUICKJET with the vacuum hose.
- Considerably easier laying, as there is no need to grip on the side, especially for the last slab.
- Wall tiles are much easier to lay with one hand.
- Easy removal and insertion of the tile, e.g. to correct adhesive application.
- Less risk of edge damage, as laying is more precise and with a better view.
- Suitable for right and left-handed use.

German Patent

Scope of delivery

FXH-25: 1 x single-handed suction plate with handle, 1 x feed hose of DN 32 (internal diameter 32 mm) 5 m long, 2 x connecting cone for different commercially standard industrial vacuum cleaners, 1 x expander tensioner 1.5 m long.

Includes adapter for standard industrial vacuum cleaner

Type	Dimensions L x W mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL -150 mbar kg (lbs)	Order-Number
FXH-25	280 x 190 (11 x 7½)	0.85 (2)	25 (55)	58500001

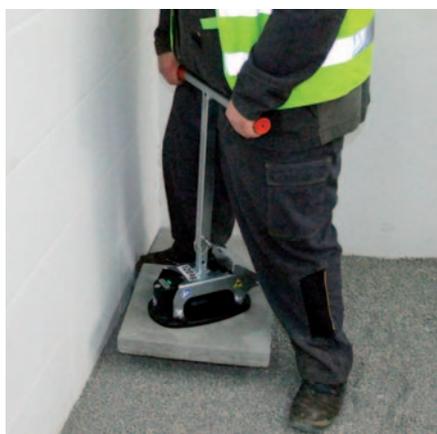
Accessories

Type	Description	Dead Weight kg (lbs)	Order-Number
FFS	Radio remote control set comprising transmitter and socket to switch the industrial vacuum cleaner on and off. Transmitter can be attached with Velcro. Plug type F, 230 V. Not suitable for QUICKJET and SPEEDY.	0.27 (1)	48500016

max. 120 kg



FXAH-120-EU



FXAH-120-EU-GREENLINE with FXAH-120-SOLO-Set



FXAH-120-EU-GREENLINE with FXAH-120-DUO-Set

FLIEGUAN-ACCU-HANDY FXAH-120-GREENLINE

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.

ACCU-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-EU-GREENLINE: Vacuum hand laying device, Charger (multi-range voltage 110 V to 240 V)
2 x lithium-ion battery, carrying strap, spare rubber seal and replacement filter.



For EU market:

FXAH-120-EU-GREENLINE: Plug-Type C, 230 V. Manometer with negative pressure display. (Bar)

For UK market:

FXAH-120-UK-GREENLINE: Plug-Type G, 230 V. Manometer with negative pressure display. (Bar/PSI)

For north american market:

FXAH-120-US-GREENLINE: Plug-Type A, 110 V. Manometer with negative pressure display. (PSI)

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 mm (in)	Dimensions L x W mm (in)	Battery Capacity Ah	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
FXAH-120-EU-GREENLINE		300 x 180 (11¾ x 7)	2.2	1.5 (3)	120 (265)	58500009
FXAH-120-UK-GREENLINE		300 x 180 (11¾ x 7)	2.2	1.5 (3)	120 (265)	58500010
FXAH-120-US-GREENLINE		300 x 180 (11¾ x 7)	2.2	1.5 (3)	120 (265)	58500011

EU version is only available in Europe. Separate versions for UK and North America are available from our branches.

Accessories

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
FXAH-120-SOLO-Set	Hand carry handle with adapter for one person	4.4 (10)	120 (265)	48500043
FXAH-120-DUO-Set	Hand carry handle with adapter for two persons	10.1 (22)	120 (265)	48500039

Spare Parts

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
FXAH-120-SOLO	Hand carry handle without adapter for one person	1.6 (4)	120 (265)	48500045
FXAH-120-DUO	Hand carry handle without adapter for two persons	7.3 (15)	120 (265)	48500044
FXAH-120-Adapter	Adapter for connecting FXAH-120 with carry handle	2.6 (6)	120 (265)	48500047
FXAH-120-Battery-14,8V/2,2Ah	Battery for FXAH-120			24200144
FXAH-120-LG-110-240V/14,8V	Battery charger for FXAH-120 (Plug type C)			24200143
FXAH-120-ED	Replacement seal for FXAH-120			48500037
FXAH-120-Filter	for FXAH-120 (2 pieces)			48500038

max. 150 kg

VACUUM-POWER-HANDY VPH-GREENLINE



VPH-150-GREENLINE



VPH-RS + VPH-RS + VPH-RS-AS

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.

- Highly wear-resistant seal.
- 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.
- Including suction plate with 150 kg load capacity.
- 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: Vacuum pump unit with manometer and battery charging indicator.



Type	Description	Dimensions oval, L x B mm (in)	Battery Capacity Ah	Type of Drive electric/Battery kW	Working Voltage V	Electric Connection/ AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Working Load Limit/WLL -500 mbar kg (lbs)	Order-Number
VPH-150-GREENLINE		440 x 250 (17 3/4 x 9 3/4)	6.5	0.02	12	16.5 (35)	16.5 (35)	150 (330)	52710008
Battery-12V /6,5 Ah	Spare storage battery for VPH		6.5		12				24200007
VPH-LG-220V/12V	Battery charger for VPH					230			24200004

Accessories

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

Type	Description	Dimen- sions L x W mm (in)	Dimen- sions oval, L x B mm (in)	Battery Capacity Ah	Working Voltage V	Electric Convec- tion/AC (50 Hz) Voltage V	Weight Dead Weight kg (lbs)	Working Load Limit/WLL -500 mbar kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
VPH-RS	Wheel Set						7.6 (15)		150 (330)	42710072
VPH-RS-AS	Support for wheel set VPH-RS						1 (2)			42710154
VPH-SPS-HP- 100-26/21	Suction Plate	260 x 210 (10¼ x 8¼)					2.6 (6)	100 (220)		42700109
VPH-SPS-HP- 150-44/25	Suction Plate		440 x 250 (17¼ x 9¾)				6 (15)	150 (330)		42700050

Spare Parts

Type	Description	Order-Number
ED-SPS-HP-100	Replacement seal for VPH-SPS-HP-100-26/21	42730004
ED-SPS-HP-150	Replacement seal for VPH-SPS-HP-150-44/25	42730012

max. 200 kg

SPEEDY VS Vacuum Hand Laying Device



VS-140/200



VS-140/200



VS-140/200-XL

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 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.
- 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.
- 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-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 Con- nection/AC (50 Hz) Voltage V	Electric Con- nection/AC (60 Hz) Voltage/ AC (60 Hz) V	Weight Dead Weight kg (lbs)	Working Load Limit/WLL -200 mbar kg (lbs)	Order-Number
VS-140/200	incl. suction plate 50 kg	300 x 250 (11¾ x 9¾)		1.5	230		24 (55)	50 (110)	52700015
VS-140/200-XL	incl. suction plate 50 kg with long handle and lifting eye	300 x 250 (11¾ x 9¾)		1.5	230		30 (65)	50 (110)	52700016
VS-140/200-110	incl. suction plate 50 kg	300 x 250 (11¾ x 9¾)	1.5			110	24 (55)	50 (110)	52700019
VS-140/200-XL-110	incl. suction plate 50 kg with long handle and lifting eye	300 x 250 (11¾ x 9¾)	1.5			110	30 (65)	50 (110)	52700020

Accessories

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



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).

- No cumbersome cable to consider.
- 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 extension cable + Velcro strap.
- Durable surface protection by galvanizing.

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



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

- Durable surface protection by galvanizing..

VS-SWV-SPS-50-30/25

VS-SWV-SPS-50-30/25: Quick Change device with integral suction plate (Order-No. 42710126). For retrofitting for previous versions: (Order-No. 52700011, 12, 13, 14, 07, 08, 09, 10)

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)	Order-Number
VS-SWV-SPS-50-30/25	Quick Change device with integral suction plate	300 x 250 (11¾ x 9¾)		1.44 (3)	50 (110)	42710126
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
VS-GH-SPS-200-85/34	Suction Plate	850 x 340 (33½ x 13½)		11.5 (25)	200 (440)	42710132
VS-GH-WSP-85-90/8-12-90°	Angeled Suction Plate		900 x 80 x 120 (35½ x 3¼ x 4¾)	6.5 (15)	85 (185)	42720345
VS-GH-WSP-150-90/12-15,5-101°	Angeled Suction Plate		900 x 120 x 155 (35½ x 4¾ x 6)	6.5 (15)	150 (330)	42720347
VS-GH-WSP-150-70/15,5-17-90°	Angeled Suction Plate		700 x 155 x 170 (27½ x 6 x 6¾)	6.2 (15)	150 (330)	42720360

Accessories

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

Spare Parts

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

5

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

UNIMOBIL UM Laying Dolly

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

- 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 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, makes manoeuvring the UM easy.
- Adjustable wheel distances (from 610 – 905 mm outside measurement) so that the UM can be adjusted to different slabs.
- 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!

max. 150 kg

UNIMOBIL UM-SM 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 or SM-600-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.
- Durable surface protection by galvanizing.



UM-SM

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

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
Spare storage battery 26 Ah, 12V			26	12	9.1 (20)		2420008
SM-SPS-90-30/20	Suction plate	300 x 200 (11¾ x 7¾)			5 (10)	90 (200)	42720009
Battery charger LG-220 V/12V	Battery charging device w/overload protection and charging current limiting. Housing is water and dust-proof.				0.86 (2)		42720351

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max. 150 kg



UM-VS-S/SE - complete version

UNIMOBIL UM-VS Laying Dolly - Complete Version

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 3 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 Conne- tion/AC (60 Hz) Voltage/ AC (60 Hz) V	Electric Conne- tion/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	300 x 250 (11¾ x 9¾)	1.5			230	24 (55)	50 (110)		52700015
VS-140/200-110	incl. suction plate 50 kg	300 x 250 (11¾ x 9¾)		1.5	110		24 (55)	50 (110)		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							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

max. 600 kg

STONEMAGNET SM-GREENLINE Vacuum Lifting Device



SM-600-GREENLINE



SM-600-GREENLINE-POWER



SM-600-GREENLINE-POWER

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 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 TURBO 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 low pressure, 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
SM-600-GREENLINE	Basic device, without suction plate	12	34 (75)	600 (1,320)	52720006
SM-600-GREENLINE-POWER	Basic device, without suction plate	12	35 (75)	600 (1,320)	52720007
SM-600-GREENLINE-POWER-FFS	Basic device, without suction plate. With remote control.	12	35 (75)	600 (1,320)	52720008

Accessories

Type	Description	Battery Capacity Ah	Working Voltage V	Dead Weight kg (lbs)	Order-Number
Spare storage battery 26 Ah, 12V		26	12	9.1 (20)	24200008
Battery charger LG-220 V/12V	Battery charging device w/overload protection and charging current limiting. Housing is water and dust-proof.			0.86 (2)	42720351
SM-BB	Operating handle also for retrofitting			1.6 (4)	42720063
SM-FFS	Remote Control for gripping and releasing for SM-600-POWER (Retro-fitting available only in the Probst works)			0.43 (1)	42720346



Suction Plates SM-SPS for STONEMAGNET

Other suction plates on request.

- Durable surface protection by galvanizing

SM-SPS-200-58/28

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

Spare Part

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

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

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QJ-600-E



QJ-600-E

QUICKJET QJ-600-E Vacuum Lifting Device

max. 600 kg

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 (petrol tank empty), 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.

- 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.

German Patent

Type	Description	Type of Drive electric/AC (50 Hz) kW	Type of Drive electric/AC (60 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
QJ-600-E	incl. Suction plate 120 kg (without generator)	1.5			230	41 (90)	600 (1,320)	52400033
QJ-600-E-110	incl. Suction plate 120 kg (without generator)		1.5	110		41 (90)	600 (1,320)	52400034

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
QJ-ESP-320-59/ 59	Suction Plate	590 x 590 (23¼ x 23¼)			13 (30)	320 (710)	42420102
QJ-ESP-400-98/ 48	Suction Plate	980 x 480 (38½ x 19)			19 (40)	400 (880)	42420104
QJ-ESP-600- 78,5/78,5	Suction Plate	785 x 785 (31 x 31)			22 (50)	600 (1,320)	42420106
QJ-ESP-350- 151/29	Suction Plate	1,510 x 290 (59½ x 11½)			18 (40)	350 (770)	42420108
QJ-ESP-170-90/ 25	Suction Plate	900 x 250 (35½ x 9¾)			13 (30)	170 (375)	42420110
QJ-ESP-250-90/ 35	Suction Plate	900 x 350 (35½ x 13¾)			14 (30)	250 (550)	42420112
QJ-ESP-500- 140/40	Suction Plate	1,400 x 400 (55 x 15¾)			21 (45)	500 (1,100)	42420114
SE-H Generator Honda EU 22 i	230 V 50 Hz petrol engine		2.25	230	22.5 (50)		52500243
Adapter QJ	for Rotator Bini/Baltrotor				1.5 (3)		40110319
Adapter QJ for SPEEDY suction plates	Adapter for mounting SPEEDY suction plates to QUICKJET QJ				6.1 (15)		42420118



Wheelset QJ-RS for QUICKJET QJ-600-E

With its new 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.

QJ-RS

Type	Description	Dead Weight kg (lbs)	Order-Number
QJ-RS	Wheelset for QUICKJET	15.2 (35)	42420083

max. 50 kg

MICROJUMBO-JET MJ-J Vacuum Slab Layer

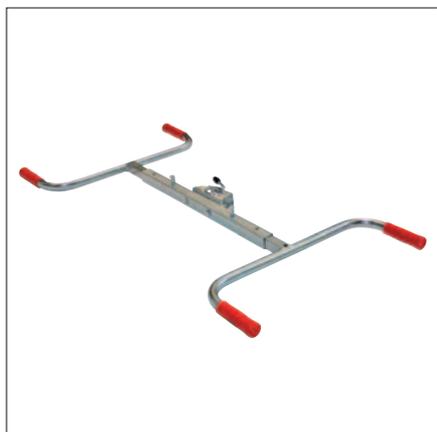


Efficient and accurate installation of small-sized and lightweight slabs – this is the optimum application enhancement for the vacuum devices QUICKJET QJ-600-E and SPEEDY VS-140/200.

If the MJ-J with POWERJET PJ-1650 is used, a GEKA coupling is required.

- Ideal for connecting to standard industrial vacuum cleaners (wet/dry vacuum cleaner with bypass valve for permanent cooling, also for laying tiles and natural stone slabs.
- Low dead weight, as made of aluminium.
- The MJ-J can be connected in a flash with the (5 m long) vacuum hose supplied. 2 connecting cones are enclosed for connection to industrial vacuum cleaners.
- By purchasing an additional MJ-J-HG two-man carrying handle, the MJ-J can also be used as a two-man device.
- With the optionally available MJ-J-SPS-50-44/24 suction plate, the working load limit is then 50 kg.
- Suction plates of different working load limits, shape and design can be added in the modular system.

MJ-J – Includes adapter for standard industrial vacuum cleaner



MJ-J-HG

Type	Description	Diameter mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL -150 mbar kg (lbs)	Order-Number
MJ-J	With suction plate 25 kg	260 (10¼)	4 (9)	25 (55)	52600015

Accessories

MJ-J-HG: Two-men-handle for MJ-J

Type	Description	Dimensions oval, L x B mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL -150 mbar kg (lbs)	Order-Number
MJ-J-HG	Handle		5.5 (10)		42600162
Adapter	Adapter GEKA coupling for connecting MJ-J to PJ-1650		0.27 (1)		23220017
FFS	Radio remote control set comprising transmitter and socket to switch the industrial vacuum cleaner on and off. Transmitter can be attached with Velcro. Plug type F, 230 V. Not suitable for QUICKJET and SPEEDY.		0.27 (1)		48500016
MJ-J-SPS-50-44/24	Suction Plate	440 x 240 (17¼ x 9½)	1.5 (3)	50 (110)	42600163

max. 25 kg



FXES-25

FLIEGUAN-ERGO-STICK FXES Tile and Slab Laying Device

The new vacuum laying device for laying slabs and tiles by hand and on 2 wheels, in a way that is simple, smooth and easy on the back.

- Made of aluminium, therefore light and manageable.
- Can be connected to standard industrial vacuum cleaners (wet/dry vacuum cleaner with bypass valve for permanent cooling) using the vacuum hose and connecting cone supplied, or directly to the SPEEDY, QUICKJET or POWERJET with the vacuum hose. One easy finger movement opens a vacuum valve to release the tile/slab.
- The distance from wheel axle to suction plate can be adjusted depending on the slab size.
- Max. tile size approx. 1,000 x 1,000 mm.
- With wheel set as standard. This can be converted quickly and easily from slab to tile laying, so that the tile can be positioned with a slight forward tilt when moved.
- With smooth plastic wheels with rubber treads.
- The wheel set can be removed completely in a few steps, for example in order to lay light tiles or slabs.
- By means of the quick release, the working height of the FXES-25 can be adjusted individually.
- In addition, the handle can be set to the optimal, ergonomic working position using 2 wing nuts.

Scope of delivery

FXES-25: 1 x feed hose of DN 32 (internal diameter 32 mm) 5 m long, 2 x connecting cone for different commercially standard industrial vacuum cleaners, 1 x expander tensioner 1.5 m long.

Type	Description	Dimensions L x W mm (in)	Dimensions Stone/Element L x W mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL -150 mbar kg (lbs)	Order-Number
FXES-25	incl. Suction plate 25 kg	270 x 270 (10¾ x 10¾)	1,000 x 1,000 (39¾ x 39¾)	6 (15)	25 (55)	58500005

Accessories

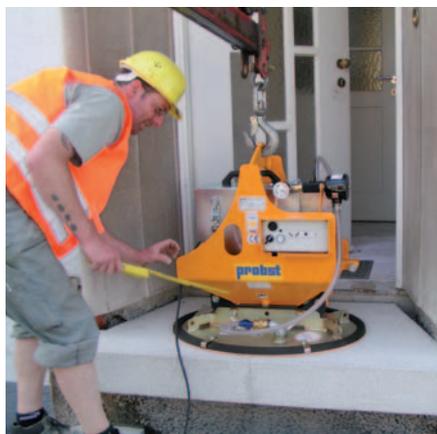
Type	Description	Dead Weight kg (lbs)	Order-Number
FFS	Radio remote control set comprising transmitter and socket to switch the industrial vacuum cleaner on and off. Transmitter can be attached with Velcro. Plug type F, 230 V. Not suitable for QUICKJET and SPEEDY.	0.27 (1)	48500016

max. 1,000 kg

Vacuum Lifting Device SH-1000-MINI



SH-1000-MINI-B



SH-1000-MINI-E

For efficient and safe handling and laying of heavy loads up to 1,000 kg, 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.

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

Accessories

Type	Description	Order-Number
Maintenance Contract	Basic-Service – further services available on request	90010052

For proper suction plates refer to page 88.

max. 1,650 kg

POWERJET PJ-1650 Vacuum-Lifting Device



PJ-1650-B



PJ-1650-H



PJ-RS

Large-sized concrete slabs with decorative surface finish as well as sandstone slabs may sometimes be very porous. The POWERJET 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 safety at work due to integrated chain guard, thus even heavily porous products cannot fall off 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.

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
PJ-1650-B	6.6		132 (290)					1,650 (3,650)	52400036
PJ-1650-H		5.0	117 (260)	200 (2,901)	10 (145)	200 – 320 (2,901 – 4,641)	16 – 70 (4 – 18)	1,650 (3,650)	52400038

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, suction plates are protected.

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

Vacuum Lifting Device SH for Heavy Loads up to 3,500 kg

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

- Specially designed and equipped for heavy-duty work on the building site.
- Can be hung from any carrier by means of load hooks, chains, cables and such like.
- Can be adapted by means of additional devices such as the MICROJUMBO MJ-J and used to lay lighter slabs (such as patio blocks).
- 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.

max. 3,500 kg

Vacuum Lifting Device SH-3500-B

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)



SH-3500-B

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

Accessories

Type	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
SH-3500-RS	Wheelset for SH-3500-B	10.6 (25)		42500256
SH-3500-AF	Support feet for SH-3500-B	12.8 (30)		42400579
SH-AD	Retrofit kit with Rotator Baltrotor	44.1 (95)		42500267
SH-TRA-3500 Spreader Bar	For multiple use of the suction plates single plates adjustable. Suction plate turnable by 90°. Distance between centres of suction plates adjustable from max. 1,450mm to min. 560 mm. Working load limit 3,500 kg	63.3 (140)	3,500 (7,700)	42500260
Maintenance Contract	Basic-Service – further services available on request			90010052

max. 2,500 kg

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. Higher carrying capacities available on request.

Safety Devices:

Vacuum gauge

Safety vacuum storage tank

Pressure relieve valve

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

Various Means of Power:

E = electric, 230 Volt, single phase

B = petrol engine

Operating handle in ergonomic position.

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

Manually operated valve for vacuum "on/off".

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

SH-2500-UNI-E: Stecker-Typ 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	147 (325)	2,500 (5,500)	52400044
SH-2500-UNI-B		2.9		100 (220)	2,500 (5,500)	52400043

Accessories

SH-2500-HGV: Should be used when laying elements wider than 1 meter, in order to keep operators feet in safe distance from load.

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: To extend the working radius of Micro Jumbo MJ at any time, we recommend the solid set of wheels for later equipment. Easy mounting to the lifting unit SH-2500. The wheelset consists of two attachable main wheels, diameter 300 mm, 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
Maintenance Contract	Basic-Service – further services available on request	90010052



SH-2500-GREENLINE

max. 2,500 kg

Vacuum Lifting Device SH-2500-GREENLINE

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.



5

SH-2500-HGV: Should be used when laying elements wider than 1 meter, in order to keep operators feet in safe distance from load.

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: To extend the working radius of Micro Jumbo MJ at any time, we recommend the solid set of wheels for later equipment. Easy mounting to the lifting unit SH-2500. The wheelset consists of two attachable main wheels, diameter 300 mm, one foldable support-wheel and one swivelling wheel. Later attachment to the basic device SH is no problem.

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
SH-2500-GREENLINE	Basic device, without suction plate	23	0.4	24	151 (335)	2,500 (5,500)	52400046
SH-2500-GREENLINE-FFS	Basic device, without suction plate. With remote control	23	0.4	24	151 (335)	2,500 (5,500)	52400048

Accessories

Type	Description	Order-Number
Battery-24V/23Ah	Spare storage battery for SH-2500-GREENLINE	24200142
SH-2500-HGV	Handle extension for all models SH-2500	42400088
SH-2500-RS	Wheelset for all models SH-2500	42500299

For suction plates see page 88.

Attachments for Vacuum Lifting Device SH

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.

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!



SPS-2500(1650)-143/78

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

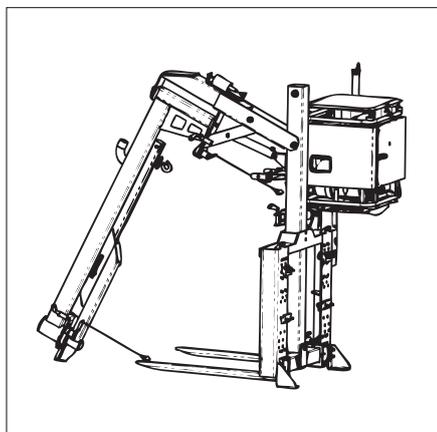
Spare Part

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

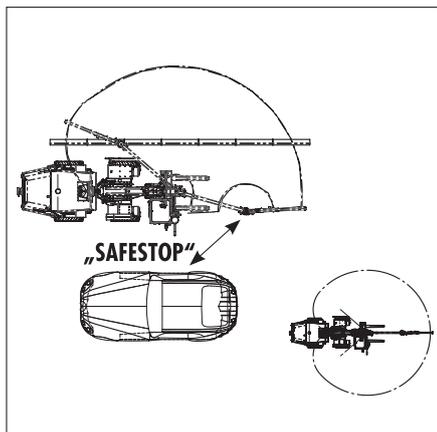
Type	Description	Order-Number
ED-SPS-3500	Replacement seal for SPS-3500	42500154
ED-SPS-2500	Replacement seal for SPS-2500	42500111
ED-SPS-1500	Replacement seal for SPS-1500	42500004
ED-SPS-1200	Replacement seal for SPS-1200	42500005
ED-SPS-1010	Replacement seal for SPS-1010	42500006
ED-SPS-500	Replacement seal for SPS-500	42500002
ED-SPS-200	Replacement seal for SPS-200	42700009



JUMBO-BV-VARIO-B



JUMBO-BV-VARIO-B



BV-VARIO. Bottom right: without „SAFESTOP“

Vacuum Kerb Stone Installation Machine JUMBO-BV-VARIO

This BV-VARIO with knuckle boom jib is equipped with innovative Probst safety features, 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.

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.

The jib can be folded hydraulically.

Suction plate: Incl. 1 kerb stone suction plate ESP-150 (Working load limit 150 kg).

- 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.

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
JUMBO-BV-VARIO-B	8.1	7,000 (275½)	3,500 (137¾)	520 (1,150)	150 (330)	52200011

Accessories

Type	Description	Order-Number
Maintenance Contract	Basis-Service – further services available on request	90010051



MM-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, 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. Tiltable/interchangeable body) can be changed easily, quickly and without tools by one person thanks to the practical body change system.



MM-GREENLINE

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



Chassis of MM-D when changing the body MM-KA

MULTIMOBIL MM-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-D

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

1. Interchangeable body 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 chassis and the tilting / interchangeable body.

2. Tilting / interchangeable body MM-KA:

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
- FLIEGUAN-HANDY FXH-25 Vacuum Hand Laying Device
- FLIEGUAN-ERGO-STICK FXES-25 Tile and Slab Laying Device
- MICROJUMBO-JET MJ-J Vacuum Slab Layer

Accessories

Type	Description	Type of Drive electric/ AC (50 Hz) kW	Electric Connection/AC (50 Hz) Voltage V	Dead Weight kg (lbs)	Working Load Limit/ WLL kg (lbs)	Order-Number
Rope hoist		0.78	230	22 (50)	200 / 400 (440 / 880)	43500036
MM-GS	Consisting of 4 x 60 kg individual weights. For operation on MM-GREENLINE and MM-D without crawler chassis.			240 (530)		43500054
MM-HE-AS	Retrofit kit for HE-35 to -150 on VGE-230 for MULTIMOBIL MM.			13 (30)		43500026

*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
VS-ERGO-SPS-50-29/22	290 x 220 (11 1/2 x 8 3/4)	15 (35)	50 (110)	43500025



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.

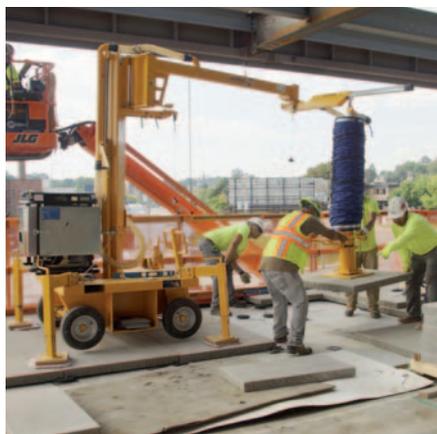
The vacuum lifting unit HE-150 can also be operated with suction-tight materials. The blower unit is mounted on the MULTIMOBIL MM.

VGE-230

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



JM-VARIO-200-B



JM-VARIO-200-B

JUMBOMOBIL JM-VARIO Vacuum Slab Laying Machine

For the easy, exact and economical laying of slabs.

Suitable for 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.
- Give your workers a better way of working!
- Exact positioning of the slabs by means of a smooth-running pillar swing crane with very low dead weight.
- Slabs which have already been laid can easily be lifted again.
- Quiet vacuum generation using an electrical motor, or alternatively a fuel engine.
- Can easily lay up to 300 square metres a day.
- With knuckle boom for safe and quick installation even along house walls or around trees, light posts or similar.

Scope of delivery

Chassis: Rugged undercarriage (L x W = 1,300 mm x 1,300 mm), 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 in length and able to turn 350° with 4 different stopping points. Foldable down to 2 m in length and 2 m in height for easy transport.

Vacuum turbine unit VGE electrically driven (E): Powerful vacuum turbine with 3-phase electrical motor, maximum underpressure 520 mbar, 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 (below ground level) to +1250 mm.

Suction plate ESP 150-31/31. All components are exchangeable via quick fasteners.

Type	Type of Drive Petrol Engine kW	Type of Drive electric/AC (60 Hz) kW	Type of Drive electric/AC (50 Hz) kW	Load Extension mm (in)	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 -420 mbar kg (lbs)	Order-Number
JM-VARIO-150-E-EU		4.8	4	3,900 (153½)	230/400	240/480	720 (1,590)	150 (330)	52000021
JM-VARIO-150-E-USA		4.8	4	3,900 (153½)	230/400	240/480	730 (1,610)	200 (440)	52000022
JM-VARIO-200-E-EU		4.8	4	3,000 (118)	230/400	240/480	730 (1,610)	200 (440)	52000023
JM-VARIO-200-E-USA		4.8	4	3,000 (118)	230/400	240/480	720 (1,590)	150 (330)	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

Accessories

Type	Description	Order-Number
Maintenance Contract	Basis-Service – further services available on request	90010051



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. 1,300 kg (2,850 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.

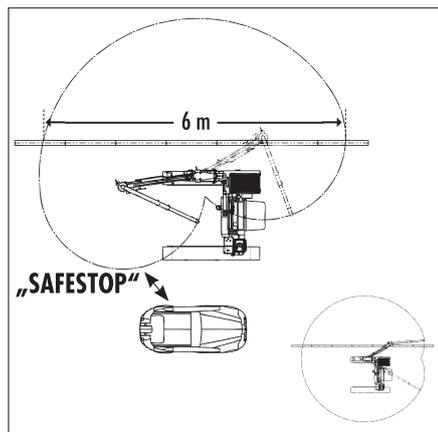
TM-150-D-A-SILENT-XL: with sound insulated Hatz Silent Pack diesel engine with additional soundproofing measures. Noise emission < 80 dB.

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)	Dead Weight kg (lbs)	Payload kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
TM-150-D-A-XL	9.6	3,000 (118)	1,576 (3,450)	1,500 (3,300)	150 – 250 (330 – 550)	52220012
TM-150-D-A-SILENT-XL	9.6	3,000 (118)	1,689 (3,700)	1,500 (3,300)	150 – 250 (330 – 550)	52220014



TM. Bottom right: without „SAFESTOP“

- 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 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.
- 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 lifting capacity when fully extended and up to 250 kg at reduced outreach of 500 mm.

Accessories

Type	Description	Dead Weight kg (lbs)	Payload kg (lbs)	Order-Number
TM-GGP	Essential add-on once the lifting capacity exceeds 150 kg. Installation material, such as kerb stones serve as counterweight.	9.2 (20)	250 (550)	42220070
Maintenance Contract	Basis-Service – further services available on request			90010051

For suction plates see page 98 – 100 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 permissible at stationary crane facilities only, not to be operated with JUMBOMOBIL and JUMBO-BV).

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 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-VARIO, TRANSMOBIL TM 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
BE-ERGOSPRINT	for HE-35 up to HE-250	13.5 (30)	42101305



SZV

Hose Cylinder Extension SZV

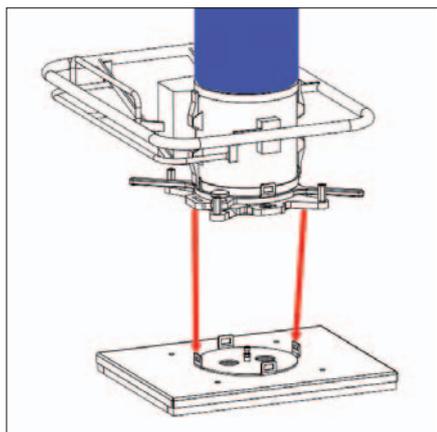
Only to be used as and when required to enable ergonomic working conditions, at certain heights.

Length 300 mm.

Scope of delivery

SZV: Vacuum pipe with quick fasteners and transmission bar for the steering of the operating valve unit.

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



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

5

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



Suction Plates ESP

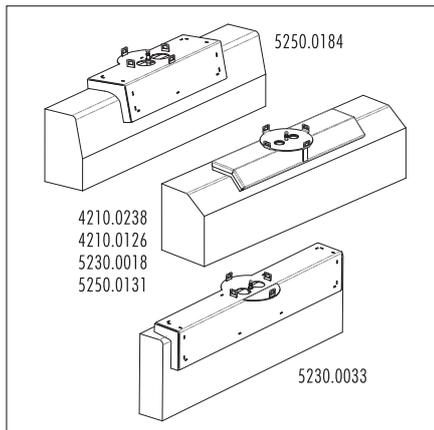
For the direct coupling to the operating valve unit or the hose cylinder extension.

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
ESP-35-20/20	200 x 200 (7¾ x 7¾)	35 (75)	42100050
ESP-50-23/23	230 x 230 (9 x 9)	50 (110)	42100561
ESP-85-25,5/25,5	255 x 255 (10 x 10)	85 (185)	42100051
ESP-150-31/31	310 x 310 (12¼ x 12¼)	150 (330)	42100145
ESP-150-40/27,5	400 x 275 (15¾ x 10¾)	150 (330)	42100116
ESP-150-50/19	500 x 190 (19¾ x 7½)	150 (330)	52300019
ESP-150-92,4/13,4	924 x 134 (36½ x 5¼)	150 (330)	52300008
ESP-150-100/12,4	1,000 x 124 (39¼ x 5)	150 (330)	52300007
ESP-200-33/33	330 x 330 (13 x 13)	200 (440)	42100331
ESP-250-40/40	400 x 400 (15¾ x 15¾)	250 (550)	42100054

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
WSP-150-52/15-12-98°	520 x 150 x 120 (20½ x 6 x 4¾)	150 (330)	52500184
WSP-150-70/8-11-143°	700 x 80 x 110 (27½ x 3¼ x 4¼)	150 (330)	42100238
WSP-150-70/11-17-143°	700 x 110 x 170 (27½ x 4¼ x 6¾)	150 (330)	42100126
WSP-150-85/7-7-135°	850 x 70 x 70 (33½ x 2¾ x 2¾)	150 (330)	52300018
WSP-150-70/13-10-143°	700 x 130 x 100 (27½ x 5 x 4)	150 (330)	52500131
WSP-150-90/10-14-93°	900 x 100 x 140 (35½ x 4 x 5½)	150 (330)	52300033

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.



top: UZ-BV, bottom: VZ-BV



RG-VZ

Grabs

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.

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Type	Description	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
UZ-BV	Radius Kerb Clamp	12 (25)	80 – 220 (3¼ – 8¾)	150 (330)	52300031
RG-VZ	Turf Stone Handle	12 (25)	100 – 490 (4 – 19¼)	70 (155)	42000003
VZ-BV-98/100	Mechanical Kerb Stone Handle	9 (20)	980 – 1,000 (38½ – 39¼)	150 (330)	42300001
VZ-BV-40/104	Mechanical Kerb Stone Handle	6.9 (15)	400 – 1,045 (15¾ – 41¼)	150 (330)	42300149



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.

VZ-M-UNI

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
VZ-M-UNI	150 (6)	50 (2)	21 (45)	900 – 1,065 (35½ – 42)	300 (660)	53100275



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.

BZ

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
BZ	150 (6)	200 (7¾)	3.8 (8)	0 – 400 (0 – 15¾)	150 (330)	53200084

Spare Part

Type	Description	Order-Number
Spare Rubbers BZ	per piece, loose	43200006
Spare Rubbers BZ	2 pieces in plastic bag	43200115



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
BVZ	200 (7¾)	210 (8¼)	11.5 (25)	0 – 550 (0 – 21¾)	200 (440)	53200020

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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
VZ-I	100 (4)	40 (1½)	11 (25)	500 – 1,045 (19¾ – 41¼)	100 (220)	53100140
VZ-II	200 (7¾)	50 (2)	25 (55)	700 – 1,000 (27½ – 39¼)	300 (660)	53100141



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
EXG	235 (9¼)	145 – 195 (5¾ – 7¾)	12.4 (25)	0 – 300 (0 – 11¾)	550 (1,210)	53100370
EXG-MAXI	235 (9¼)	165 – 215 (6½ – 8½)	16 (35)	0 – 400 (0 – 15¾)	600 (1,320)	53100392



TG-5/12



TG-5/12 with TH-HGV

TWISTGRIP TG 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.

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
TG-5/12	90 (3½)	60 (2¼)	3.02 (7)	50 – 120 (2 – 4¾)	80 (175)	53200102

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
TG-HGV	Handle extension	0.41 (1)	43200108



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.
- Semi-automatic – for manual 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)	53100130

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Turf Stone Laying Clamp RGV

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.

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)	53100372
RGV	Basic unit, without adaptors		17 (35)	70 – 500 (2¾ – 19¾)	250 (550)	43101154

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	20 – 60 (¾ – 2¼)	5 (10)	250 (550)	43101153

Other adapter sets on request.

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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 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.

TSZ-UNI with HVA-FTZ/TSZ



TSZ-UNI-WB-SQ

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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
TSZ-UNI	350 (13¾)	185 (7¼)	32 (70)	50 – 600 (2 – 23½)	600 (1,320)	53100338
TSZ-MAXI	350 (13¾)	185 (7¼)	35 (75)	850 – 1,100 (33½ – 43¼)	600 (1,320)	53100364

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 (built in or after 2009, order number 53100338) in just a few simple steps.

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 approx. 140 – 255 mm. Adjustable range FTZ-UNI/MAXI-15 and FTZ-UNI-25 approx. 120 – 255 mm.

FTZ-UNI-50 approx. 55 – 155 mm. FTZ-MAXI-50 approx. 55 – 195 mm.

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



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
FTZ-I	420 (16½)	170 (6¾)	55 (120)	50 – 520 (2 – 20½)	900 (1,980)	53100120
FTZ-BB	420 (16½)	290 (11½)	60 (130)	50 – 480 (2 – 19)	900 (1,980)	53100202
FTZ-UNI-15	420 (16½)	255 (10)	88 (195)	0 – 750 (0 – 29½)	1,500 (3,300)	53100256
FTZ-UNI-25	420 (16½)	255 (10)	119 (260)	0 – 750 (0 – 29½)	2,500 (5,500)	53100313
FTZ-MAXI-25	420 (16½)	255 (10)	132 (290)	200 – 1,200 (7¾ – 47¼)	2,500 (5,500)	53100344
FTZ-UNI-50	720 (28¼)	200 (7¾)	245 (540)	0 – 850 (0 – 33½)	5,000 (11,000)	53100362
FTZ-MAXI-50	720 (28¼)	240 (9½)	260 (570)	400 – 1,250 (15¾ – 49¼)	5,000 (11,000)	53100363

Accessories

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

Adjustable Height Stop HVA-FTZ/TSZ: for all versions of FTZ-UNI/MAXI/MULTI and TSZ-UNI. Adjustable range approx. 140 – 255 mm. Adjustable range FTZ-UNI/MAXI-15 and FTZ-UNI-25 approx. 120 – 255 mm.

FTZ-UNI-50 approx. 55 – 155 mm. FTZ-MAXI-50 approx. 55 – 195 mm.

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



FTZ-MULTI-15

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.

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

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 etc.

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 approx. 140 – 255 mm. Adjustable range FTZ-UNI/MAXI-15 and FTZ-UNI-25 approx. 120 – 255 mm.

FTZ-UNI-50 approx. 55 – 155 mm. FTZ-MAXI-50 approx. 55 – 195 mm.

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



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

Grab for Prefabricated Concrete Products FTZ-MULTI-D

Modularly designed grab – with even 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 clamps 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
FTZ-MULTI-15-D Basic Device	140 (310)	1,500 (3,300)	53100393

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 etc.

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
FTZ-MULTI-15-WB-G-42	(pair)	420 (16½)	540 (21¼)	15.12 (35)	0 – 750 (0 – 29½)	43100942
FTZ-MULTI-15-WB-G-120	(pair)	1,200 (47¼)	540 (21¼)	46 (100)	0 – 750 (0 – 29½)	43100943
FTZ-MULTI-15-WB-SQ	(pair)		585 (23)	33 (75)	0 – 700 (0 – 27½)	43100941
Adjustable Height Stop HVA-FTZ-MULTI-D				5.5 (10)		43101348



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
WEZ-2	220 (8¾)	480 (19)	55 (120)	50 – 250 (2 – 9¾)	2,000 (4,400)	53100347
WEZ-6	440 (17¼)	630 (24¾)	160 (355)	50 – 300 (2 – 11¾)	6,000 (13,200)	53100375



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
FVZ-UNI	99 (220)	0 – 950 (0 – 37½)	1,500 (3,300)	53100272

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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
H-FVZ-UNI	18 (40)	0 – 600 (0 – 23½)	200 (440)	53200086



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



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
SLS-8/20-G-VA	12.14 (25)	80 – 200 (3¼ – 7¾)	300 (660)	53100409

Accessories

Type	Description	Dead Weight kg (lbs)	Order-Number
GB-SLS	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.	0.6 (1)	43101415



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
FSZ-M	90 (3½)	150 (6)	16 (35)	180 – 580 (7 – 22¾)	250 (550)	53200002



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



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.
- 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

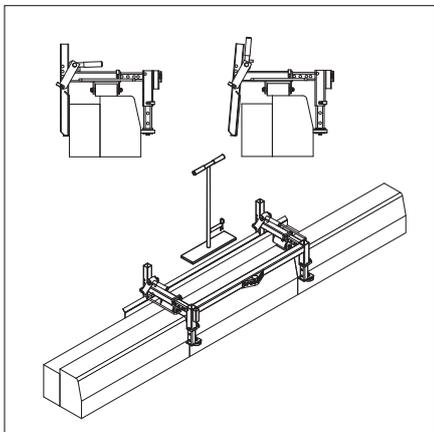
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German Patent

Slipform for Concrete Backfill of Precast Kerbs GR-150



GR-150



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.
- Even faster to the finish line! This connection rod links up two or more slipforms for formwork building.
- Durable surface protection by galvanizing.

6

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	Dead Weight kg (lbs)	Order-Number
KS-GR-150	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	Length of Gripper mm (in)	Dead Weight kg (lbs)	Gripping Range mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
KKV-200	400 (15¾)	50 (110)	185 – 215 (7¼ – 8½)	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-290/315	Steel brackets	3.5 (8)	290 – 315 (11½ – 12½)	43100634
KKV-A-330/355	Steel brackets	4 (9)	330 – 355 (13 – 14)	43100652
KKV-A-410/435	Steel brackets	4.2 (9)	410 – 435 (16¼ – 17¼)	43100653
KKV-A-470/495	Steel brackets	4.4 (10)	470 – 495 (18½ – 19½)	43100625
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-8/14

Cable Channel Clamp KKV-8/14

For cable channels size I – IF.

Grips from the inside

- Fully mechanical operated, with handles and lifting eye.
- Handles turnable to 90°.
- Exchangeable rubber metal bars as gripping elements.
- 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

For cable channels with an internal width of 20 – 30 cm.

- 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-20/30	120 (4¾)	5.5 (10)	200 – 300 (7¾ – 11¾)	150 (330)	53100420

6



VZ-H-UNI-KV Full version

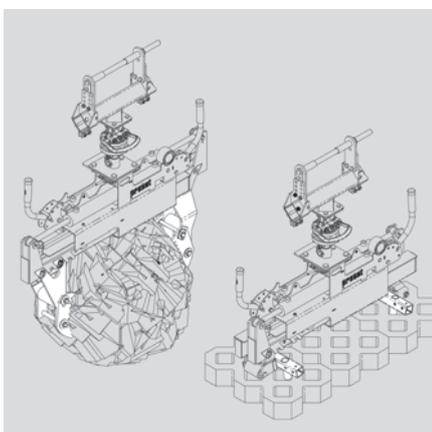
Hydraulic Installation Clamp VZ-H-UNI

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 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.



top left: VZ-H-UNI-FG, bottom right: VZ-H-UNI-RG

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).

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
VZ-H-UNI-KV Full version	100 (4)	67 / 128 (2¾ / 5)	170 (375)	45 – 1,560 (1¾ – 61½)	500 (1,100)	51600031-002

Accessories

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	Description	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
VZ-H-UNI-FG	Rock grippers (in pairs)	25 (55)	500 (1,100)	41600160
VZ-H-UNI-RG	Gripping adapter for grass stones and large-seized slabs (in pairs)	29 (65)	500 (1,100)	41600176
VZ-H-UNI-GBL	Rubber gripper with larger inside height	4.5 (10)	500 (1,100)	41600151



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.

VZ-HS-50/150 Basic unit

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
VZ-HS-50/150 Basic unit	100 (4)	60 / 120 (2¼ / 4¾)	75 (165)	465 – 1,465 (18¼ – 57¾)	400 (880)	51600014

Accessories

Type	Description	Dead Weight kg (lbs)	Order-Number
Rotator Baltrotor GR-10		11.8 (25)	22500026
Adapter between UBA and Rotator		1.4 (3)	40110270
Bypass restrictor for Baltrotor	for operation w/VM-401/301/203/204		41900080
Bypass restrictor for Baltrotor	for operation w/excavator		41900101



BSZ-KH-6.0

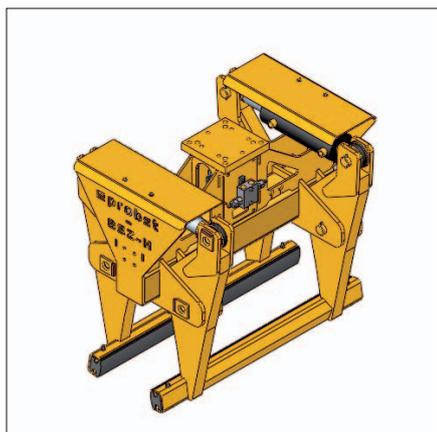
Concrete Highway Divider Clamp BSZ-KH

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, which results in a considerable reduction in costs!

- 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
BSZ-KH-6.0	460 (1,010)	150 – 210 (6 – 8¼)	6,000 (13,200)	53100411



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)	Working Load Limit/WLL kg (lbs)	Order-Number
BSZ-H-2.0	DB 50 + DB 65 S	235 (520)	2,000 (4,400)	56400003
BSZ-H-5.1	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)	5,100 (11,200)	56400002

The use of additional element types 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: Essentially designed as above 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
FTZ-GBA	1,200 (47¼)	255 (10)	120 (265)	150 (6)	2,600 (5,700)	53100356
FTZ-GBA-S	1,200 (47¼)	295 (11½)	119 (260)	240 (9½)	2,900 (6,400)	53100356-001



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.

There is no need for using slings or chains. By means of the mechanical clamping mechanism pipes cannot slip off thus accurate placement can be easily achieved.

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.

- New: 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
RVD-4,5-ECO	600 – 1,200 (23½ – 47¼)	662 (1,460)	3,000 (118)	4,500 (9,900)	44000184

A minimum pipe weight of 600 kg is mandatory for proper operation of the clamp.

German Patent

Round Grab RG-SAFELOCK



RG-20/85-SAFELOCK



RG-75/125-SAFELOCK



RG-100/150-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. 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
RG-20/85-SAFELOCK	420 (16½)	125 (275)	200 – 870 (7¾ – 34¼)	2,500 (5,500)	54500006
RG-75/125-SAFELOCK	440 (17¼)	370 (820)	720 – 1,280 (28¼ – 50½)	4,000 (8,800)	54500005
RG-100/150-SAFELOCK	460 (18)	425 (940)	970 – 1,530 (38¼ – 60¼)	6,000 (13,200)	54500008

Accessories

Type	Description	Dimensions L x W x H mm (in)	Order-Number
Steelfinger gripper	for RG-75/125 and RG-100/150	60 x 60 x 15 (2¼ x 2¼ x ½)	34010108
GMT Rubber gripper, black	only for RG-75/125	60 x 15 x 200 (2¼ x ½ x 7¾)	43101377



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
RG-8/40	500 (19¾)	45 (100)	80 – 400 (3¼ – 15¾)	430 (950)	54500004
RG-20/80	420 (16½)	92 (205)	200 – 800 (7¾ – 31½)	1,500 (3,300)	54500002

Manhole and Cone Chain Clamp SRG



SRG-UNI-1,5

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.



SRG-1,5

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
SRG-UNI-1,5	3	800 – 2,000 (31½ – 78¾)	28 (60)	40 – 120 (1½ – 4¾)	1,500 (3,300)	54400015
SRG-UNI-1,5-K	3	800 – 2,000 (31½ – 78¾)	32 (70)	40 – 120 (1½ – 4¾)	1,500 (3,300)	54400018
SRG-UNI-3	3	800 – 2,000 (31½ – 78¾)	40 (90)	60 – 180 (2¼ – 7)	3,000 (6,600)	54400014
SRG-UNI-3-K	3	800 – 2,000 (31½ – 78¾)	45 (100)	60 – 180 (2¼ – 7)	3,000 (6,600)	54400019
SRG-1,5	3	400 – 2,000 (15¾ – 78¾)	31 (70)	40 – 120 (1½ – 4¾)	1,500 (3,300)	54400001
SRG-3	3	400 – 2,000 (15¾ – 78¾)	55 (120)	50 – 180 (2 – 7)	3,000 (6,600)	54400002
SRG-3-L	3	400 – 3,000 (15¾ – 118)	58 (130)	50 – 180 (2 – 7)	3,000 (6,600)	54400003

German Patent



SVZ-UNI-VARIO



SVZ-UNI-VARIO

Manhole and cone installation clamp SVZ-UNI-VARIO

With the new SVZ-UNI-VARIO manhole and cone installation clamp, even cones now hang on exact level.

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. Adjustable in degrees as follows: 625/700/800/1,000/1,050/1,200/1,250/1,350/1,500 mm.

- 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 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
SVZ-UNI-VARIO	625 – 1,500 (24½ – 59)	148 (325)	2,500 (5,500)	54000041



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 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

SVZ-UNI-UK: (725/800) 900/1.000/1.050/1.200/1.250/1.350/1.500 mm

- NEW: now 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
SVZ-UNI	global	625 – 1,500 (24½ – 59)	103 (225)	2,500 (5,500)	54000046
SVZ-UNI-UK	UK	900 – 1,500 (35½ – 59)	96 (210)	2,500 (5,500)	54000047

Accessories

Type	Description	Diameter Nominal Diameter mm (in)	Dead Weight kg (lbs)	Order-Number
SVZ-Set for adaptors	surcharge for nominal width	1,800 (70¾)	25 (55)	44000064
SVZ-UNI-AS	Set of Adaptors for height support, in order to also grip rings with 250 mm height.		5.4 (10)	44000079



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 manhole installation 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	700/800/900/1,000/1,050/1,200 (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.

- Well-priced and compact – 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

8



Gully Clamp SAZ-UNI

German Patent

The small and light clamp for cumbersome and heavy concrete sections for road gullies.

For base and intermediate sections in accordance with DIN 4052 (diameter see table).

By undoing the spring bolt and turning the swivel arm, sleeve sections can also be gripped and laid (external size see table, larger value).

- 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, 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
SRZ-M	20 (45)	200 – 620 (7¾ – 24½)	150 (330)	54000033



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
SRZ-KOMBI	15 (35)	750 / 785 (29½ / 31)	200 (440)	53100373



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 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
SDH-H-15	260 / 950 (10¼ / 37½)	1,050 (41¼)	36 (80)	310 (12¼)	1,500	54800002
SDH-H-15-UK	260 / 950 (10¼ / 37½)	1,050 (41¼)	56 (125)	310 (12¼)	1,500	54800006



EL-SDH

EASYLIFT EL-SDH Manhole Cover Lifter

Small and light mechanical manhole cover lifter for lifting manhole covers up to diameter Ø 800 mm.

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.

Optionally available: Permanent lifting magnet EL-SDH-LHM-400.

2 Key not included in the delivery. See table on page 121.

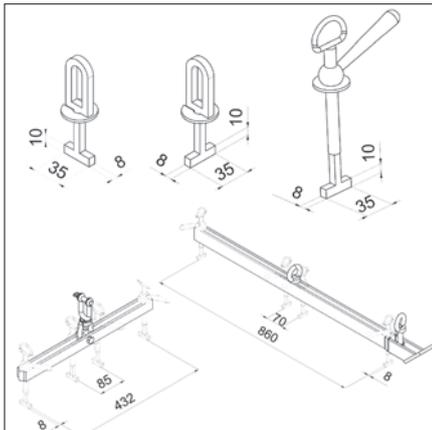
- Durable surface protection by galvanizing.

Type	Working Width Hook Centres mm (in)	Dead Weight kg (lbs)	Force Pulling Force kg(daN)	Order-Number
EL-SDH	100 / 740 (4 / 29¼)	18 (40)	200	54800010

Accessories

Type	Description	Dead Weight kg (lbs)	Order-Number
EL-SDH-LHM-400	Permanent lifting magnet with slot for attachment to EL-SDH	11 (25)	44800065

Manhole Cover Lifter accessories

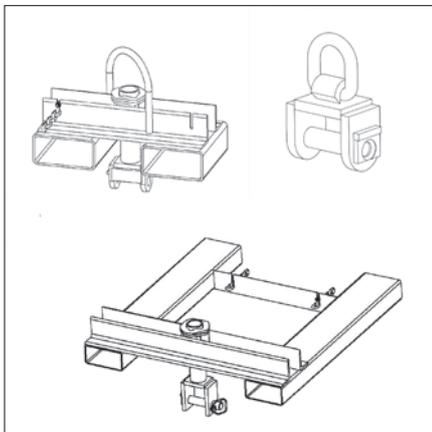


top (from left to right): SDH-Set of keys A, B, C.
bottom: SDH-H-spreader bar small + large

Type	Description	Order-Number
Key	Key A	44800019
Key	Key B	44800020
Key	Key B	44800075
Spreader bar	small	44800008
Spreader bar	large	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	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.

NEW: 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
SG-80-MAXI-PGL2	1,200 (47¼)	800 (31½)	240 (530)	700 – 1,200 (27½ – 47¼)	1,800 (3,950)	53100416
SG-80-PGL2	1,200 (47¼)	800 (31½)	230 (510)	400 – 1,100 (15¾ – 43¼)	1,800 (3,950)	53100380
SG-60-PGL2	1,200 (47¼)	600 (23½)	225 (495)	400 – 1,100 (15¾ – 43¼)	1,800 (3,950)	53100415
SG-100-PGL2	1,200 (47¼)	1,000 (39¼)	380 (840)	700 – 1,200 (27½ – 47¼)	2,000 (4,400)	53100284

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
ET-D	with additional lifting eye for crane hook	35 (75)	2,500 (5,500)	43100411
ET-D/B		50 (110)	2,500 (5,500)	43100373
EH-3000	lifting eye for crane hook operation	4 (9)	3,000 (6,600)	40110086
SSN-1,5/1,3/1,0	for SG-60-PGL2, SG-80-PGL2, SG-80-MAXI-PGL2, SG-100-PGL2	5 (10)	2,000 (4,400)	45200061



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).

- 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
KSZ-300-UNI	1,000 (39¼)	300 (11¾)	95 (210)	750 – 1,000 (29½ – 39¼)	1,250 (2,750)	55200033



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
DEZ-UNI	1,140 (45)	140 / 210 (5½ / 8¼)	75 (165)	660 – 1,000 (26 – 39¼)	600 (1,320)	55100034

Building Material Plants – In-Plant Handling



Clever solutions for suppliers of construction materials and building material plants

In addition to a broad range of devices and tools for use at construction sites Probst also provides clever solutions for In-Plant Handling. Speed up material flow and open up significant streamlining potential in your plant.

Storage and retrieval, order picking and transport

For in-plant transport of construction materials you will find efficient solutions designed for special requirements of the strenuous use in continuous operation. Such as fork lift grabs STAZ and ring and cone clamp RKZ-H.

Ergonomic and efficient working – a case for vacuum technology, which is one of the key specialties at Probst for versatile use with in-plant applications.

Practical solutions – individually tailored

Apart from the broad standard range of products, Probst also offers special solutions tailored to customers' individual needs.

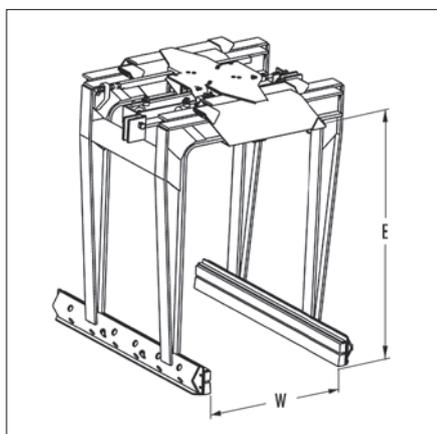
In early stages often times the demand of a single customer provides the impetus for developing a mass-produced item.

Due to physical proximity of R & D department and production at Probst headquarters appropriate concepts can be tested directly and modified as required.





STAZ



STAZ

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
STAZ-UNI-0700	700 (27½)	500 (1,100)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	4,000 (8,800)	1,250 (49¼)	57000700-1250
STAZ-UNI-0850	850 (33½)	505 (1,110)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	4,000 (8,800)	1,250 (49¼)	57000850-1250
STAZ-UNI-1000	1,000 (39¼)	525 (1,160)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,750 (8,300)	1,250 (49¼)	57001000-1250
STAZ-UNI-1200	1,200 (47¼)	560 (1,240)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,250 (7,200)	1,250 (49¼)	57001200-1250
STAZ-UNI-1300	1,300 (51¼)	575 (1,270)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,000 (6,600)	1,250 (49¼)	57001300-1250
STAZ-UNI-1350	1,350 (53¼)	585 (1,290)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,000 (6,600)	1,250 (49¼)	57001350-1250
STAZ-UNI-1400	1,400 (55)	595 (1,310)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	2,750 (6,100)	1,250 (49¼)	57001400-1250
STAZ-UNI-1550	1,550 (61)	610 (1,350)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	2,500 (5,500)	1,250 (49¼)	57001550-1250

011220 Technical data contained in this catalogue can be modified without prior notice in the interest of progress. Illustrations are exemplary and non-binding. No liability accepted for any misprints, mistakes and errors.



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 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.

STAZ-UNI-4 + fork sleeve + pressure plates

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
STAZ-UNI-4-850	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)	57000165
STAZ-UNI-4-1000	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)	57000166
STAZ-UNI-4-1200	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)	57000167



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.

STAZ-SLC

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
STAZ-SLC	1,250 (49¼)	500 – 700 (19¾ – 27½)	310 (680)	370 – 1,370 (14½ – 54)	1,500 (3,300)	57050015



Double Fork Lift Grab STAZ-DZ-II

Consisting of two single clamps (see STAZ 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.

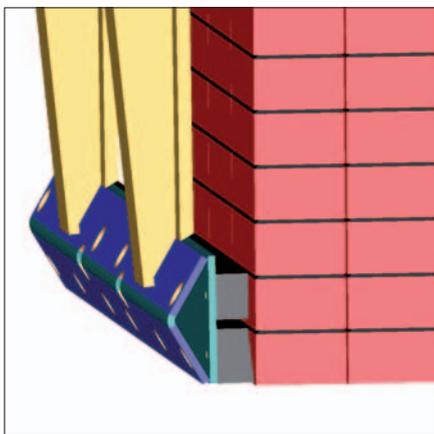
- Only one hydraulic circuit is needed to be supplied by means of the fork lift truck, if both clamps are operated together.
- Polyamide sliding guides come with a 5 year guarantee.

STAZ-DZ-II

Type	Order-Number
STAZ-DZ-II	On Request

Grippers for Fork Lift Grabs

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

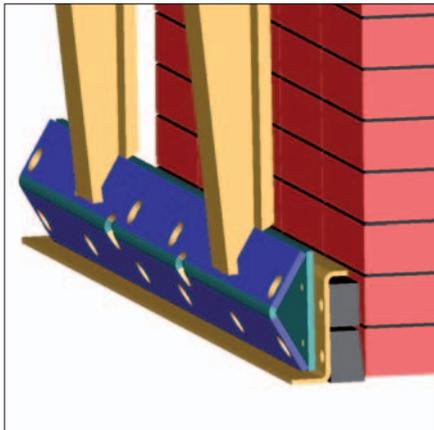
Rubber Gripper GB2

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 and a minimum thickness of 60 mm. 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 and a minimum thickness of 80 mm.

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

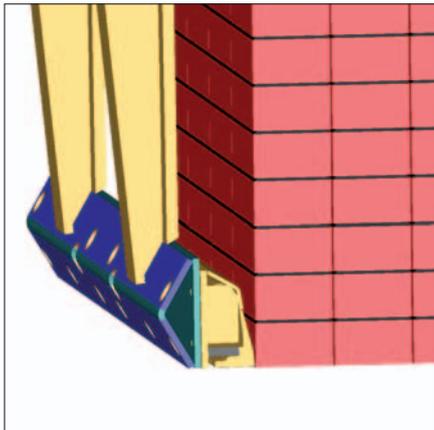
Design and utilization as described on page 131, but in this case the rubber elements are secured to a Z-shape steel carrier.

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
GB2-0720-Z	720 (28¼)	15.5 (35)	1	47451010-0720
GB2-0780-Z	780 (30¾)	17 (35)	1	47451010-0780
GB2-0850-Z	850 (33½)	18 (40)	1	47451010-0850
GB2-1000-Z	1,000 (39¼)	21.5 (45)	1	47451010-1000
GB2-1100-Z	1,100 (43¼)	24 (55)	1	47451010-1100
GB2-1200-Z	1,200 (47¼)	26 (55)	1	47451010-1200
GB2-1250-Z	1,250 (49¼)	27 (60)	1	47451010-1250
GB2-1300-Z	1,300 (51¼)	28 (60)	1	47451010-1300



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 and a minimum block thickness of 60 mm.

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 and a minimum block thickness of 80 mm.

- 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

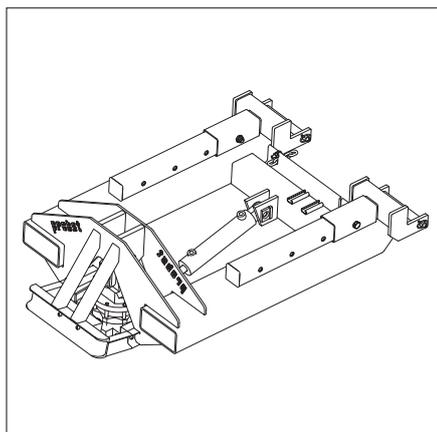
Pressure Plates for STAZ-UNI-4

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.

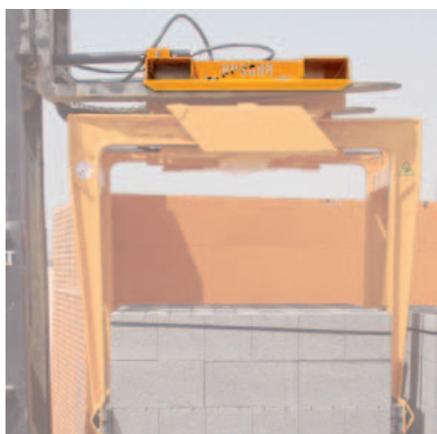
Solid surface, measurements adjusted to fit the gripper length and the height of the clamp. Spring-loaded, mounted on 4 suspension points.

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, 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-1). 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 grippers either lengthwise or across to the fork lift.

■ Advantage: short change-over time when adding other attachments to the fork lift.

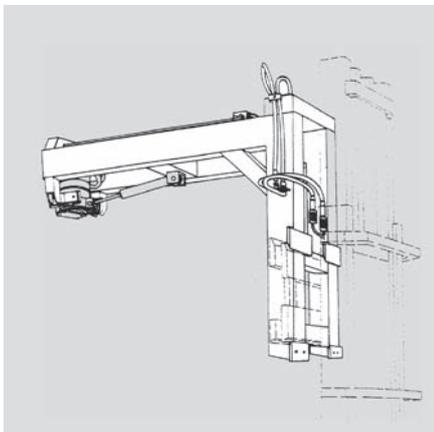
Type	Description	Load Extension mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
ET-IS-UNI-506	variable	1,000 (39¼)	140 (310)	4,000 (8,800)	47110074
ET-IS-UNI USA	variable	1,000 (39¼)	150 (330)	4,000 (8,800)	47110023
ET-III-UNI for STAZ-UNI-4	variable	700 (27½)	130 (285)	4,000 (8,800)	47110016
ET-III-UNI for STAZ-UNI	variable	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.

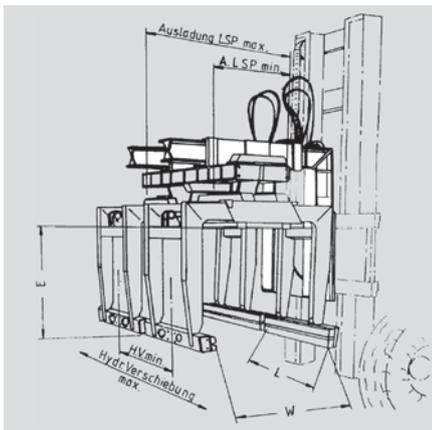
KA-ECO-1200: Crane Boom for single clamps: rigidly fitted to carriage plate, gripper jaw alignment longitudinal to the forklift truck. No loss of lifting height.

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
KA-ECO-1200	770 (30¼)	165 (365)	3,000 (6,600)	47120078
KA-I	1,500 (59)	390 (860)	4,000 (8,800)	47120033
KA-I-S	1,800 (70¾)	490 (1,080)	4,000 (8,800)	47120034
KA-II-S	1,100 (43¼)	550 (1,210)	5,500 (12,100)	47100038



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.

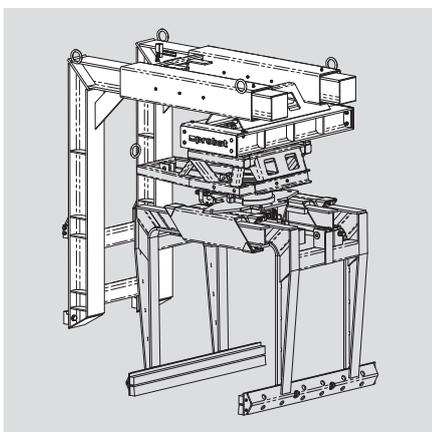
The customer must fit an optical signal. (Flashing lights or such like) to the fork lift, to warn the driver when the load is not in its fully retracted position. (For this purpose an electric contact switch is supplied with the device).

- 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
KA-I-VA	1,120 – 1,800 (44 – 70¾)	480 (1,060)	4,000 (8,800)	47120035
KA-II-S-VA	1,120 – 1,800 (44 – 70¾)	690 (1,520)	5,500 (12,100)	47120036



KA-I-VA-SV

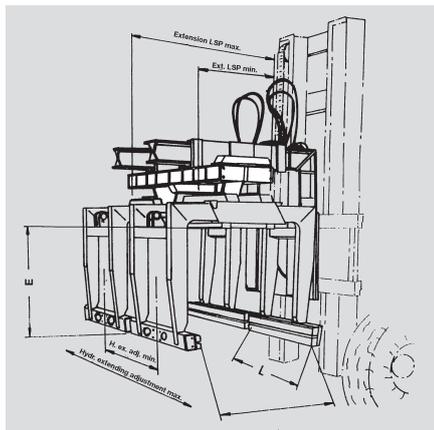
Crane Boom with Distance Adjustment and Side Shift KA + VA + SV

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
KA-I-VA-SV	1,120 – 1,800 (44 – 70¾)	150 (330)	4,000 (8,800)	47120080



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).

QT

Type	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Shifting mm (in)	Order-Number
QT	190 (420)	5,500 (12,100)	0	47100037
QT-H	300 (660)	5,500 (12,100)	0 – 400 (0 – 15¾)	47130019
QT-HL	320 (710)	5,500 (12,100)	0 – 640 (0 – 25¼)	47130016

Hydraulic Rotator DK/GV

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
DK-506	42 (95)	6,000 (13,200)	360	47150080
GV-12-2	56 (125)	7,500 (16,500)	360	47150055

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
PD-S-506	45 (100)	47140009
PD-V	70 (155)	47100042



ATZ-P-4

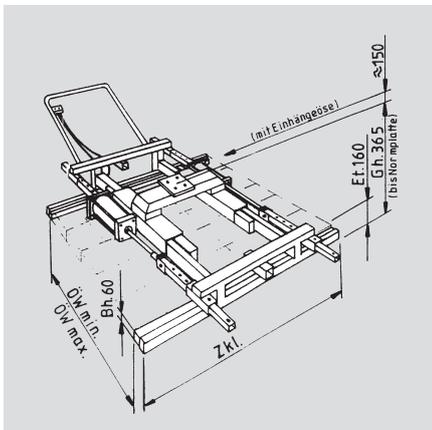
Pneumatic Cubing Clamp ATZ-P

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

10

Type	Compressed Air Connection Pressure bar (psi)	Inside Height mm (in)	Dead Weight kg (lbs)	Opening Width Main Gripper mm (in)	Opening Width Side Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Gripper Base Length mm (in)	Order-Number
ATZ-P-4	6 – 10 (87 – 145)	160 (6¼)	260 (570)	660 – 1,420 (26 – 56)	760 – 1,360 (30 – 53½)	400 (880)	1,250 / 850 (49¼ / 33½)	57500097
ATZ-P-2	6 – 10 (87 – 145)	160 (6¼)	120 (265)	500 – 1,100 (19¾ – 43¼)		400 (880)	1,200 (47¼)	57500148

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
Connection spiral hose	length approx. 5,000 mm (200") / Connection 12 L.				23000001
GB1-540-L		540 (21¼)	6 (15)	1	47451020-0540
GB1-650-L		650 (25½)	7 (15)	1	47451020-0650
GB1-700-L		700 (27½)	7.5 (15)	1	47451020-0700
GB1-760-L		760 (30)	8.5 (20)	1	47451020-0760
GB1-800-L		800 (31½)	9 (20)	1	47451020-0800
GB1-850-L		850 (33½)	8.5 (20)	1	47451020-0850
GB1-900-L		900 (35½)	10 (20)	1	47451020-0900
GB1-1000-L		1,000 (39¼)	11 (25)	1	47451020-1000
GB1-1100-L		1,100 (43¼)	12 (25)	1	47451020-1100
GB1-1200-L		1,200 (47¼)	13 (30)	1	47451020-1200
GB1-1250-L		1,250 (49¼)	13.5 (30)	1	47451020-1250
GB1-1300-L		1,300 (51¼)	14 (30)	1	47451020-1300



SRF-900

Vertical Guide SRF

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

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

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
SRF-900	310 (680)	900 (1,980)	57500008



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
KIG-I	625 – 800 (24½ – 31½)	210 (465)	2,000 (4,400)	57200020
KIG-I-USA	625 – 800 (24½ – 31½)	220 (485)	2,000 (4,400)	57200106
KIG-II	625 – 1,000 (24½ – 39¼)	280 (620)	2,000 (4,400)	57200208



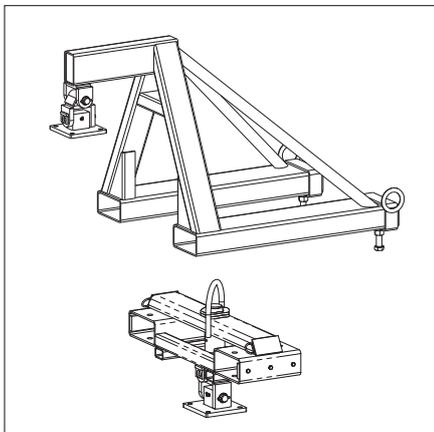
Manhole Ring Clamp RK-I/-II/-III

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.
- Equipped with 2 or 3 grippers, according to model.
- Fully automatic change-over from “full” to “empty”, making it an absolute one-man machine.

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	60 – 180 (2¼ – 7)	240 (530)	914 – 1,524 (36 – 60)	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.

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.

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



Turning Device for Concrete Bases WG /WG-S

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.

WG

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
WG	1,200 – 1,800 (47¼ – 70¾)	1,500 (3,300)	900 (35½)	180 – 210 (2,611 – 3,046)	3,000 (6,600)	57200165
WG-S	1,200 – 2,200 (47¼ – 86½)	1,900 (4,200)	900 (35½)	180 – 210 (2,611 – 3,046)	4,500 (9,900)	57200169



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.

PWG-S

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Angle Pivoting-/Rotation Angle °Degree	Order-Number
PWG-S-4.5	1,200 – 1,800 (47¼ – 70¾)	1,800 (3,950)	4,500 (9,900)	180	57400016
PWG-S-7	1,200 – 1,800 (47¼ – 70¾)	2,800 (6,200)	7,000 (15,400)	180	57400017



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".

UMG

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
UMG-30/80	3	300 – 800 (11¾ – 31½)	1,200 (47¼)	90 (200)	1,000 (2,210)	57200051
UMG-60/150	3	600 – 1,500 (23½ – 59)	1,200 (47¼)	150 (330)	1,500 (3,300)	57200050
UMG-150/300	3	1,500 – 3,000 (59 – 118)	1,200 (47¼)	290 (640)	2,000 (4,400)	57200063



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.

UG

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
UG-3.5	380 – 1,320 (15 – 52)	300 – 1,000 (11¾ – 39¾)	820 (1,810)	180 – 210 (2,611 – 3,046)	3,500 (7,700)	57300004
UG-4.5	400 – 1,580 (15¾ – 62¼)	300 – 1,200 (11¾ – 47¼)	1,200 (2,650)	180 – 210 (2,611 – 3,046)	4,500 (9,900)	57300025
UG-6.5	400 – 1,800 (15¾ – 70¾)	300 – 1,500 (11¾ – 59)	1,970 (4,350)	180 – 210 (2,611 – 3,046)	6,500 (14,300)	57300030



Rotating Clamp for Concrete Pipes WG-R

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.

Supplied without connecting hose to the fork-lift-truck.

- The clamp attachment enables the rotating of the pipes by +_ 90° (rotating range 360° endless) – without shunting the forklift.
- It is possible to pick up 3 pipes.

WG

Type	Diameter outside mm (in)	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Working Load Limit/WLL kg (lbs)	Order-Number
WG	300 – 1,300 (11¾ – 51¼)	1,400 (3,100)	180 – 210 (2,611 – 3,046)	3,000 (6,600)	57300044
WG-SR	300 – 1,300 (11¾ – 51¼)	1,700 (3,750)	180 – 210 (2,611 – 3,046)	4,500 (9,900)	57300051



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.

FUG

Type	Description	Number of Pipes Pcs.	Dead Weight kg (lbs)	Hydraulic Connection Pressure bar (psi)	Working Load Limit/WLL kg (lbs)	Order-Number
FUG	up to 5 pipes with a width of 300 mm (113/4")	5	450 (990)	180 – 210 (2,611 – 3,046)	1,500 (3,300)	57300006



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.

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.

MFD

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
MFD-25-5	5	250 (9¾)	300 (660)		2,000 – 3,000 (78¾ – 118)	2,600 (5,700)	57400001
MFD-30-5	5	300 (11¾)	330 (730)		2,000 – 3,000 (78¾ – 118)	2,000 (4,400)	57400085
MFD-40-4	4	400 (15¾)	350 (770)		2,000 – 3,000 (78¾ – 118)	2,200 (4,850)	57400086
MFD-50-3	3	500 (19¾)	375 (830)		2,000 – 3,000 (78¾ – 118)	2,500 (5,500)	57400104
MFD-60-3	3	600 (23½)	400 (880)		2,000 – 3,000 (78¾ – 118)	4,300 (9,500)	57400026
MFD-UNI	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)	57400067

11



Manhole Ring Clamp RK-XL-IV/-V/-VI

With the mechanical large pipe clamp, concrete pipes up to ID 2800 mm 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.

RK

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-XL-IV	2	1,000 – 1,800 (39¾ – 70¾)	600 (1,320)	85 – 250 (3¼ – 9¾)	7,500 (16,500)	57300001
RK-XL-V	2	1,500 – 2,600 (59 – 102¼)	1,700 (3,750)	85 – 300 (3¼ – 11¾)	15,000 (33,100)	57300002
RK-XL-VI	2	1,500 – 2,800 (59 – 110¼)	3,200 (7,100)	100 – 300 (4 – 11¾)	25,000 (55,100)	57300009



Tilting Table KT

Using the Large Pipe RK, the concrete pipes up to 3 m 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.

KT

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



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.

PWG-R

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



STAZ-KS

Fork Lift Grab STAZ-KS

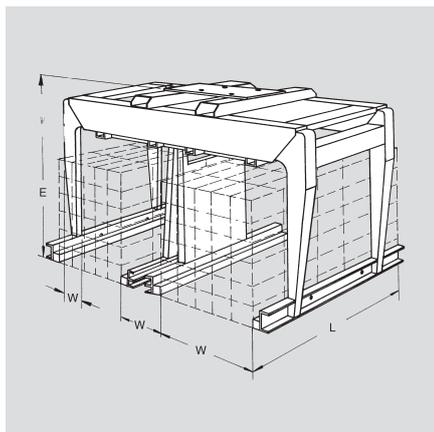
Specially designed for operation in silicate block factories.

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.
- Polyamide sliding guides come with a 5 year guarantee.

Type	Order-Number
STAZ-KS	On Request



STAZ-DZ-I

Double Fork Lift Grab STAZ-DZ-I

The same characteristics as the STAZ 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 closed, 300 mm 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.

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
STAZ-UNI-P-1000	1,000 (39¼)	440 (970)	580 – 1,260 (22¾ – 49½)	2,300 (5,100)	57000087
STAZ-UNI-KA-1000	1,000 (39¼)	590 (1,300)	370 – 1,370 (14½ – 54)	2,000 (4,400)	57000107

Larger or modified opening widths and heights are available on request.



ASZ

Sorting Clamp ASZ/ASZ-R

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
ASZ	600 x 1,200 (23½ x 47¼)	200 (7¾)		120 (4¾)	26 (55)	250 (550)	53100259-005
A-50		50 (2)			1.3 (3)		43100376
A-100		100 (4)			0.8 (2)		43100377
ASZ-R		300 (11¾)	620 – 1,200 (24½ – 47¼)	100 (4)	34 (75)	250 (550)	53100281-003



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	Inside Height mm (in)	Dead Weight kg (lbs)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
P-WG	285 (11¼)	200 (440)	600 – 2,000 (23½ – 78¾)	500 (1,100)	57400109



ASZ-P

Pneumatic Sorting Clamp ASZ-P

This universal outsourcing 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: 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	Dead Weight kg (lbs)	Opening Width Main Gripper mm (in)	Working Load Limit/WLL kg (lbs)	Order-Number
ASZ-P	18 (40)	220 – 1,050 (8¾ – 41¼)	120 (265)	57400023

Other opening widths and heights are available on request.



VAH-12

Vacuum Sorting Lifter VAH-12

The new 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
VAH-12	200 x 95 x 160 (7¾ x 3¾ x 6¼)	8 (20)	12 (25)	58500008



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
VXS-35-P	1.5	1.25	230/400	240/480	47 (105)	1,500 (59)	35 (75)	57600034
VXS-50-P	3	2.4	230/400	240/480	82 (180)	1,500 (59)	50 (110)	57600041

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
VXS-SPS-35		175 x 175 (7 x 7)		0.87 (2)	35 (75)	47610026
VXS-SPS-35		240 x 160 (9½ x 6¼)		0.85 (2)	35 (75)	47610022
VXS-SPS-50		194 x 194 (7¾ x 7¾)		0.8 (2)	50 (110)	47610024
Supply Hose for VXS-35-P	cut goods		25 (1)			47610008
Supply Hose for VXS-50-P	cut goods		32 (1¼)			25200011
Dust filter cartridge for VXS-35-P						42500120
Dust filter cartridge for VXS-50-P						25000027

Aluminium Smooth Running Cranes for VACUSPEED VXS

The Probst aluminium 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

Type	Load Extension mm (in)	Dead Weight kg (lbs)	Working Load Limit/WLL kg (lbs)	Angle Pivoting-/Rotation Angle °Degree	Order-Number
VXS-ASSK-65-4	4,000 (157½)	155 (340)	65 (145)	270	42000137

Accessories

Type	Description	Dead Weight kg (lbs)	Order-Number
VXS-ASSK-KP-65-4	For crane 65 kg, reach 4m	1,130 (2,490)	42000157
DS-ASSK	Set of dowel for pillar swing crane		42000100



VXS-AWSK

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
VXS-AWSK-65-4	4,000 (157½)	77 (170)	65 (145)	180	42000138

Vacuum Hose Lifter for Internal Use

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



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 reach, height adjustable and with a displacement of about 270°.

Supply-hose D = 60 mm, 7,000 mm 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 from a forklift truck for example.
- 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 167), 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)	Dead Weight kg (lbs)	Weight Counter Weight/ Ballast kg (lbs)	Working Load Limit/WLL kg (lbs)	Order-Number
JWK-80/250-4-EU	4,000 (157 1/2)	1,050 (2,320)	3,600 (7,900)	250 (550)	52800019
JWK-80/250-5-EU	5,000 (196 3/4)	1,110 (2,450)	4,600 (10,100)	250 (550)	52800021



Lifting Hose Units HE

For use with the JUMBOMOBIL JM, JUMBO-BV, TRANSMOBIL TM, JUMBO Travelling Crane JWK or on any other crane carrier.

(Application of lifting hose unit HE-250 is permissible at stationary crane facilities only, not to be operated with JUMBOMOBIL and JUMBO-BV).

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

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 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-VARIO, TRANSMOBIL TM 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
BE-ERGOSPRINT	for HE-35 up to HE-250	13.5 (30)	42101305



SZV

Hose Cylinder Extension SZV

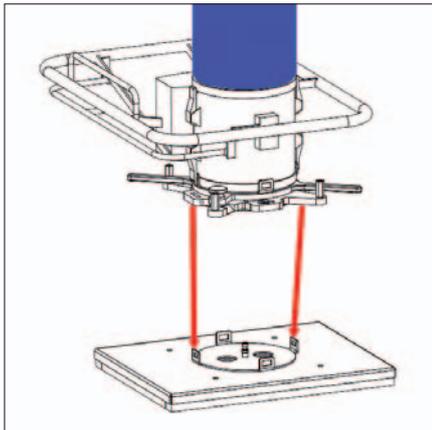
Only to be used as and when required to enable ergonomic working conditions, at certain heights.

Length 300 mm.

Scope of delivery

SZV: Vacuum pipe with quick fasteners and transmission bar for the steering of the operating valve unit.

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



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
SWV-HE	Quick change device	3.8 (8)	250 (550)	42101026



ESP-150-31/31

Suction Plates ESP

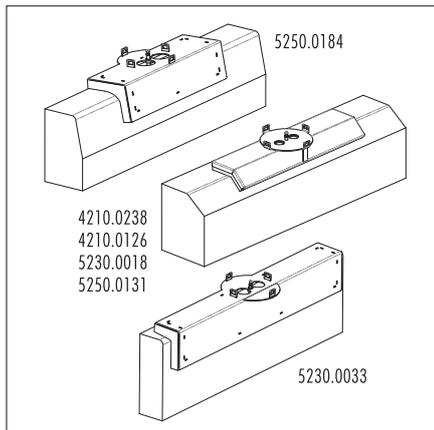
For the direct coupling to the operating valve unit or the hose cylinder extension.

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
ESP-35-20/20	200 x 200 (7¾ x 7¾)	35 (75)	42100050
ESP-50-23/23	230 x 230 (9 x 9)	50 (110)	42100561
ESP-85-25,5/25,5	255 x 255 (10 x 10)	85 (185)	42100051
ESP-150-31/31	310 x 310 (12¼ x 12¼)	150 (330)	42100145
ESP-150-40/27,5	400 x 275 (15¾ x 10¾)	150 (330)	42100116
ESP-150-50/19	500 x 190 (19¾ x 7½)	150 (330)	52300019
ESP-150-92,4/13,4	924 x 134 (36½ x 5¼)	150 (330)	52300008
ESP-150-100/12,4	1,000 x 124 (39¼ x 5)	150 (330)	52300007
ESP-200-33/33	330 x 330 (13 x 13)	200 (440)	42100331
ESP-250-40/40	400 x 400 (15¾ x 15¾)	250 (550)	42100054

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
WSP-150-52/15-12-98°	520 x 150 x 120 (20½ x 6 x 4¾)	150 (330)	52500184
WSP-150-70/8-11-143°	700 x 80 x 110 (27½ x 3¼ x 4¼)	150 (330)	42100238
WSP-150-70/11-17-143°	700 x 110 x 170 (27½ x 4¼ x 6¾)	150 (330)	42100126
WSP-150-85/7-7-135°	850 x 70 x 70 (33½ x 2¾ x 2¾)	150 (330)	52300018
WSP-150-70/13-10-143°	700 x 130 x 100 (27½ x 5 x 4)	150 (330)	52500131
WSP-150-90/10-14-93°	900 x 100 x 140 (35½ x 4 x 5½)	150 (330)	52300033

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.



top: UZ-BV, bottom: VZ-BV



RG-VZ

Grabs

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.

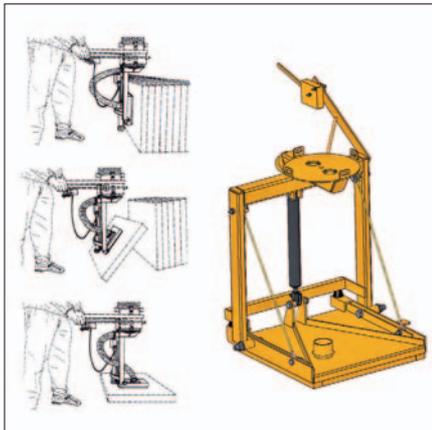
UZ-BV: universal kerb stone clamp specially designed to grab the kerbs crossway. This is how curved kerb stones with different radiuses can be handled.

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

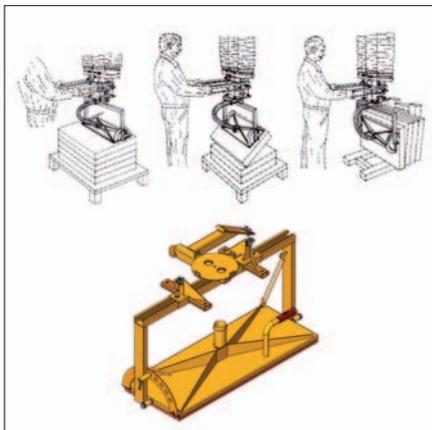
VZ-BV-98/100: this clamp has been specially designed to cope with the rare cases when kerb stones are too porous to be lifted with vacuum, so they therefore have to be lifted mechanically.

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
UZ-BV	Radius Kerb Clamp	12 (25)	80 – 220 (3¼ – 8¾)	150 (330)	52300031
RG-VZ	Turf Stone Handle	12 (25)	100 – 490 (4 – 19¼)	70 (155)	42000003
VZ-BV-98/100	Mechanical Kerb Stone Handle	9 (20)	980 – 1,000 (38½ – 39¼)	150 (330)	42300001
VZ-BV-40/104	Mechanical Kerb Stone Handle	6.9 (15)	400 – 1,045 (15¾ – 41¼)	150 (330)	42300149



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.

- Suitable for different applications of vacuum hose lifting devices:

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

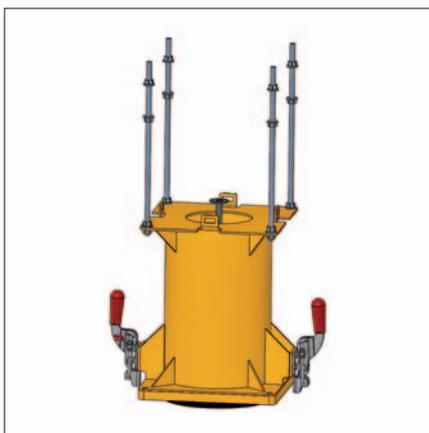
Pneumatic swivelling base frame for use with exchangeable suction plates ESP-SW-P-250

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	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
ESP-SW-P-250-A	Base frame without suction plate	250 (550)	42101227



SWA-200 (long version)

Quick Change Adapter SWA

Allows exchange of different suction plates within seconds.

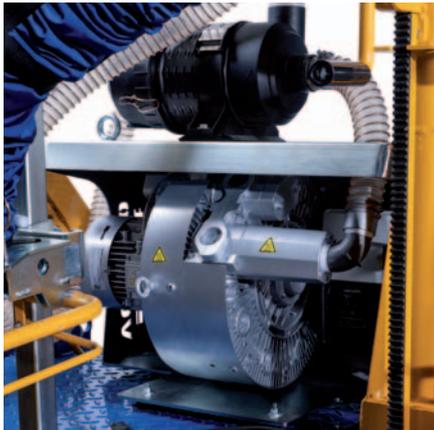
Essentially necessary for lifting loads of 200 kg and more.

Short design as against SZV, specially suitable for in-plant paketize works in use with ESP-SW-F-F-200-75/30-A

Type	Working Load Limit/WLL -420 mbar kg (lbs)	Order-Number
SWA-200 (long version)	250 (550)	42100097
SWA-200 (short version)	250 (550)	42100104

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.
- We will gladly advice you.



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

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



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: 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. 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 (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)	Order-Number
VGE-SB-L-EL-EU	4	4.8	230 / 400	240 / 480	113 (250)	47600160
VGE-SB-L-EL-USA	4	4.8	230 / 400	230 / 460	113 (250)	47600161
VGE-SB-L-EL-RU	4	4.8	200 / 350	220 / 380	113 (250)	47600162

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.

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



AWSK

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 170 – 172.

- 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 1,600 mm (63") can be used.
- CE approved.

Scope of delivery

AWSK: 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
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 tabel.

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.

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

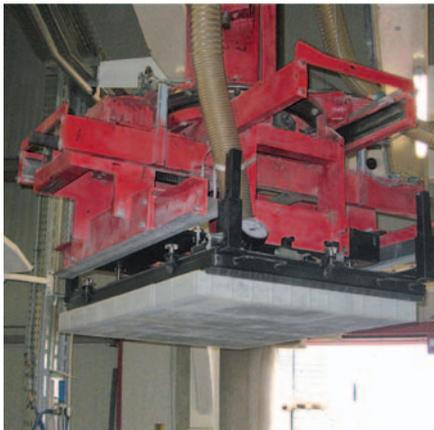


ASSK

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	Order-Number
DS-ASSK	Set of dowel for pillar swing crane	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!

Suitable for multi shift operation and short cycle times.

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



We have developed various types of Block Loading Grabs specially equipped for your needs and loads:

- I. with fixed height
- II. 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 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 very quick – about 10 minutes.

As the clamp legs are so well constructed and extremely stable, our AKZs 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.

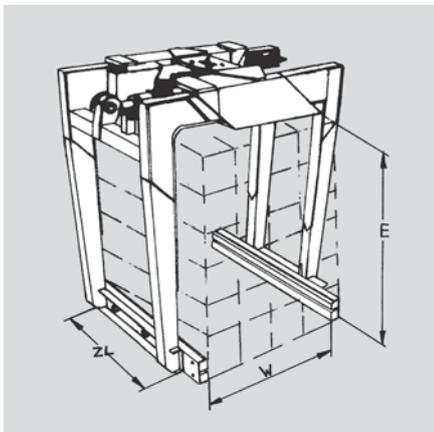
All types come with these standard specification:

- 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 w/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-UNIGRIP



AKZ-UNIGRIP

Block Loading Grabs AKZ-UNIGRIP with a Fixed Height

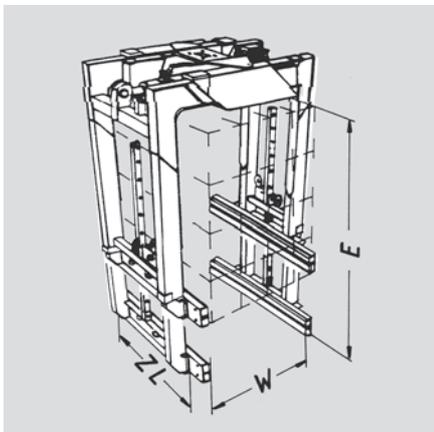
Specially designed for use with truck loading cranes. For the transportation of palletised and unpalletised packs of blocks.

- Light weight construction in high tensile steel.
- Fully hydraulically adjustable opening range.
- Large, low-maintenance polyamide 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-UNIGRIP-850	850 (33½)	310 (680)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	3,000 (6,600)	1,000 (39¼)	56100050
AKZ-UNIGRIP-1000	1,000 (39¼)	320 (710)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	2,500 (5,500)	1,000 (39¼)	56100051
AKZ-UNIGRIP-1100	1,100 (43¼)	325 (720)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	2,500 (5,500)	1,000 (39¼)	56100052
AKZ-UNIGRIP-1230	1,230 (48½)	345 (760)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	2,000 (4,400)	1,000 (39¼)	56100053
AKZ-UNIGRIP-1230-HD	1,230 (48½)	370 (820)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	2,500 (5,500)	1,250 (49¼)	56100053- 003
AKZ-UNIGRIP-1300	1,300 (51¼)	350 (770)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	1,800 (3,950)	1,000 (39¼)	56100054



AKZ-H-UNIGRIP



AKZ-H-UNIGRIP

Block Loading Grabs AKZ-H-UNIGRIP with Adjustable Height

This has the same design and characteristics like the AKZ-UNIGRIP 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.

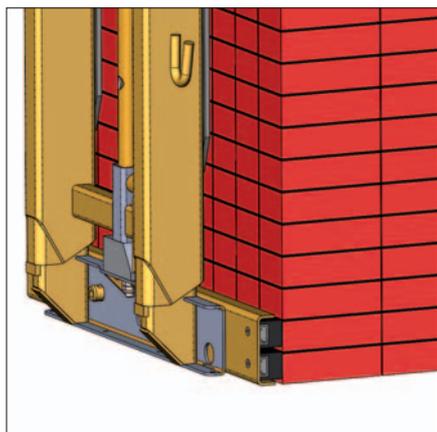
Time savings: The driver does not need to leave the cab to set down the grab.

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 Main Gripper mm (in)	Working Load Limit/ WLL kg (lbs)	Gripper Base Length mm (in)	Order-Number
AKZ-H-UNIGRIP	1,100 / 1,650 (43¼ / 65)	360 (790)	180 – 210 (2,611 – 3,046)	370 – 1,370 (14½ – 54)	1,900 / 1,350 (4,200 / 3,000)	720 (28¼)	56100057

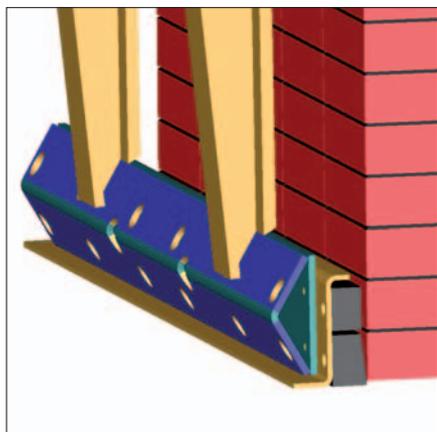


Rubber Gripper GB

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



GB2-Z

Type	Length of Gripper mm (in)	Dead Weight kg (lbs)	Quantity Pieces	Order-Number
GB2-720-N	720 (28¼)	11 (25)	1	47451030-0720
GB2-1000-N	1,000 (39¼)	15 (35)	1	47451030-1000
GB2-1100-N	1,100 (43¼)	17 (35)	1	47451030-1100
GB2-1200-N	1,200 (47¼)	22 (50)	1	47451030-1200
GB2-1250-N	1,250 (49¼)	24 (55)	1	47451030-1250
GB2-0720-Z	720 (28¼)	15.5 (35)	1	47451010-0720
GB2-1000-Z	1,000 (39¼)	21.5 (45)	1	47451010-1000
GB2-1200-Z	1,200 (47¼)	26 (55)	1	47451010-1200
GB2-1250-Z	1,250 (49¼)	27 (60)	1	47451010-1250

Accessories for Block Loading Grabs

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.

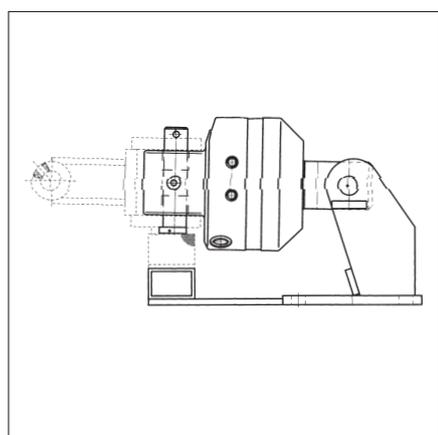
Type	Description	Dead Weight kg (lbs)	Order-Number
SWV below the rotator	The rotator remains on the cranes in normal circumstances	10 (20)	46200001
SWV above the rotator	rotator remains in clamp	10 (20)	46200002

Always state the type of rotator and crane when upon inquiry.

Suspension Link

Type	Description	Dead Weight kg (lbs)	Order-Number
Below the rotator		4 (9)	46200072
Above the rotator	for adapting various types of rotators to the grab and to the crane''	4 (9)	46200073

Always state the type of rotator and crane when upon inquiry.



Rotator Tilting Device

To limit the overall height of the vehicle.

Rotator Tilting Device

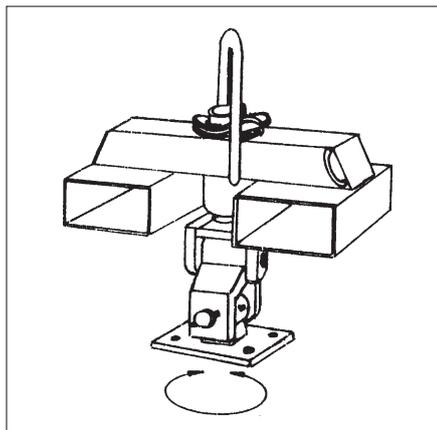
Type	Description	Dead Weight kg (lbs)	Order-Number
Rotator Tilting Device	rotator for shaft	10 (20)	46200071
Rotator Tilting Device	rotator for flange-connection	17 (35)	46200082

Rotator with hydraulic rotation

Rotator with hydraulic rotation plus 2 connection hoses to the clamp.

Type	Dead Weight kg (lbs)	Order-Number
Continuous Rotator - Baltrotor, 4.5 tons capacity	38 (85)	46200056-001

Rotator also available with pivot.

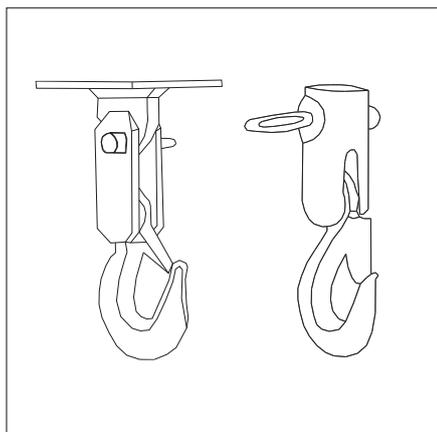


Fork Sleeves with lifting eye and manual device engaging ET-D

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
ET-D	consisting of ET-D, incl. universal joint, mounting plate.	2,500 (5,500)	43100238



Not turnable lifting hook DLH

DLH

Type	Description	Dead Weight kg (lbs)	Order-Number
DLH	for mounting under DK with pin	7 (15)	40110077
DLH	for mounting under SWV top	6 (15)	40110073

Hydraulic Accessories

Type	Order-Number
HD plug-in coupling sleeve KM 12L, component 3	22170002
HD plug-in coupling plug KS 12 L, component 3	22150007
HD screw coupling sleeve, SKM 12L, component 3	22170004
Screw coupling plug SKS 12L, component 3	22150003



PG

Pallet Forks PGH-K 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 178) 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.
- Also with rotator making it a purely one-man machine on even ground.
- 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
PGH-15-K	120 (265)	180 – 210 (2,611 – 3,046)	1,500 (3,300)	980 x 100 x 40 (38½ x 4 x 1½)	56000010
PGH-20-K	125 (275)	180 – 210 (2,611 – 3,046)	2,000 (4,400)	980 x 120 x 40 (38½ x 4¾ x 1½)	56000011
PGH-25-K	165 (365)	180 – 210 (2,611 – 3,046)	2,500 (5,500)	980 x 100 x 45 (38½ x 4 x 1¾)	56000025
PGH-30-K	185 (410)	180 – 210 (2,611 – 3,046)	3,000 (6,600)	980 x 125 x 45 (38½ x 5 x 1¾)	56000024

Service

Training

Demonstration, technical instructions/assistance

Rental Equipment

Second-hand and demo equipment

Maintenance contracts

Service-App

Telephone Support

Warranty

Spare parts

Customer service and repair

Customer service and repair

Phone: +49 7144 3309-30
service@probst-handling.com
WhatsApp +49 176 43818017

Service-App

Telephone Support

Warranty

Spare parts

Customer service and repair

Demonstration, technical instructions/assistance

Rental Equipment

Second-hand and demo equipment

Maintenance contracts

Service-App

Telephone Support

Warranty

Spare parts

Customer service and repair

Video-Call

On location at the tap of a button

- Use the camera function in your smartphone (Android or iOS) to connect directly to a Probst service technician and express your concerns
- Get quick support and help
- Avoid downtime at the construction site



Our service app for smartphone / tablet (Android and iOS) is now available for free download

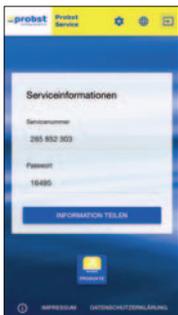


This is how it works:

- First, call us at the following telephone number: **+ 49 7144 3309 30**. You will be connected with the responsible service employee, with whom you can express your concerns

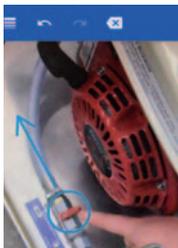


Through Internet Explorer, you can download and install the desktop versions (Windows/MAC):
<https://service.probst-handling.comm>

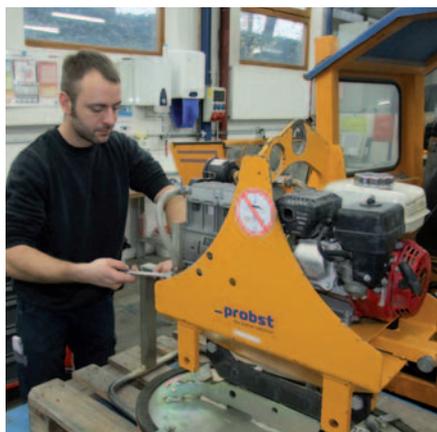


- Now open the Probst Service app in your smartphone. After saving the camera settings, you will see your service number and password (Access data remains valid for 1 hour on the screen). You can now transmit these by tapping the share button. The connection is established and your screen switches to camera function. An employee answers via voice.

Run the application directly in Firefox and Chrome (Windows/MAC):
<https://service.probst-handling.com>



This video call function turns your mobile phone into the "eye and ear" of the service technician. Fast help is therefore guaranteed – wherever you are in the world. You can be sure of that.



After Sales/Warranties

By purchasing a Probst product you have chosen a quality product which has been developed and tested as a result of over 50 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

Service Centre
Gottlieb-Daimler-Str. 6
71729 Erdmannhausen
Phone + 49 7144 3309 30
E-Mail: service@probst-handling.com

The returns form can be found on our website 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
UVV test Probst small appliances flat rate*	9001.0001	79 *
UVV test Probst large appliances including Probst accessory*	9001.0002	149 *
Inspection of electrical work equipment according to VDE 0701-0702	9001.0020	29 *
Customer service high (for Probst large appliances)*	9001.0003	350 *
Customer service low (for Probst large appliances)* 1)	9001.0004	180 *
Customer service low (for Probst small appliances)* 1)	9001.0005	99 *
Service pack 1 large appliances (CS high + UVV)*	9001.0006	449 *
Service pack 2 large appliances (CS low + UVV)*	9001.0007	279 *
Service pack 3 small appliances (CS low + UVV)*	9001.0008	148 *
Travelling expenses for service technician visit	9001.0009	0,95/km
Journey time	9001.0012	65/h
Working time	9001.0011	70/h
Overnight costs for service technician	9001.0010	60/Night

- 1) For Probst UNIPOSE and POWERPLAN laying machines, we make a surcharge of 150 EURO (customer service high) and a surcharge of 80 EURO (customer service low). For on-site service the journey will also be charged.

* Without spare parts and any possible repair costs incurred

General Sales Conditions

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.

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 borne 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.

General Sales Conditions

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 sense 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 safety 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 safety 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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Contact person: _____ Company: _____

Phone: _____ E-mail address: _____

Please describe the element to be lifted.

Dimensions (LxWxH in mm)

Weight (in kg)

What material is the element made of?

e.g. concrete, natural stone, granite, limestone, ...

What is the surface finish?

e.g. coated, structured, smooth, polished, powder-coated, ...

How is the element stored or how is it delivered?

If available, please send us sketches or photos.

What is the intended location?

e.g. building site, building material plant, desert, sea air, ...

Which drive is preferred or available?

e.g. combustion engine, hydraulic or electric drive, ...

Is a carrier device provided? If so, which?

e.g. excavator, forklift, loading crane, overhead crane, chain hoist, ...

When do you plan to commission the unit?

Is there any other relevant information?

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

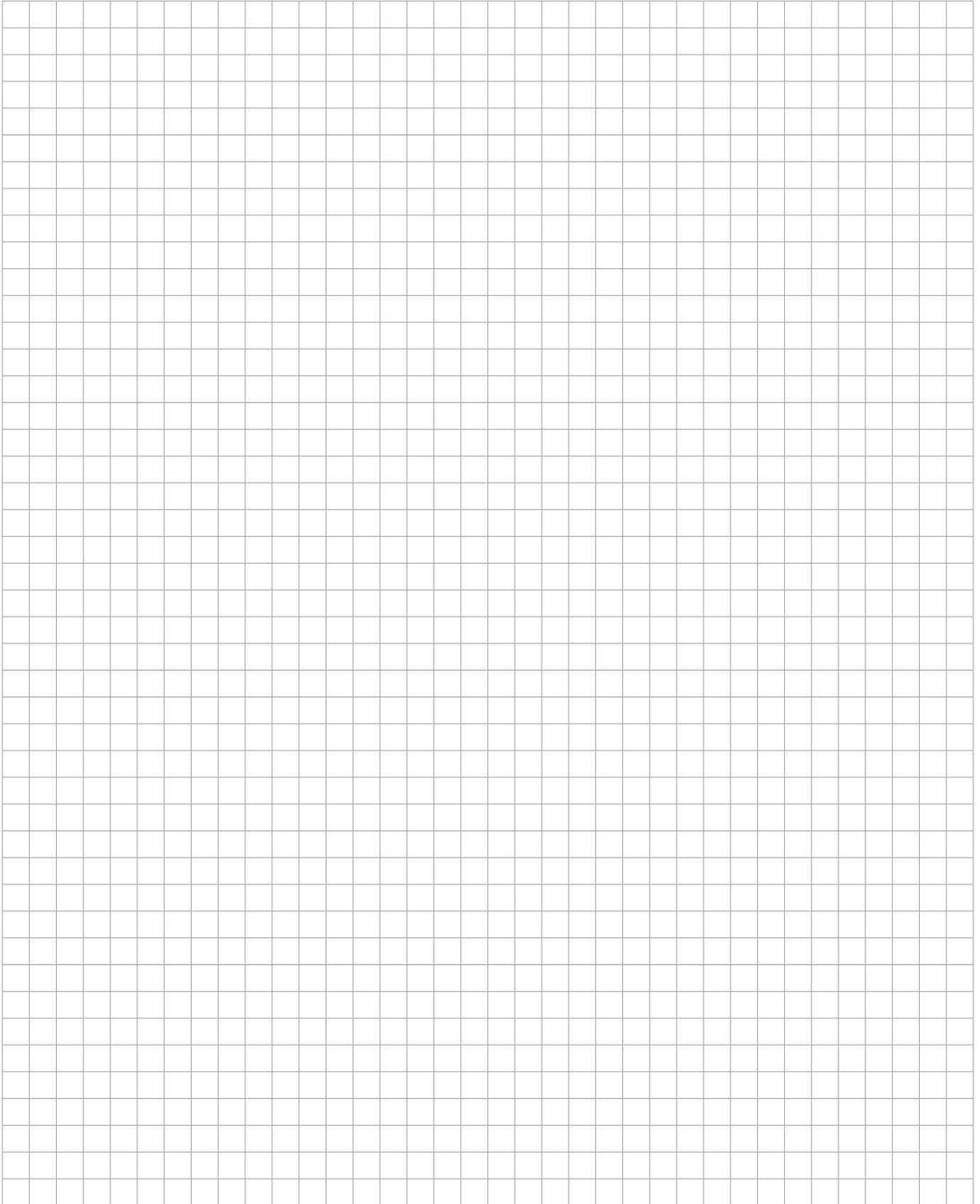
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Sketch/drawing



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