



Probst gets things moving –  
innovative, efficient and ergonomic



## New Products 2019





# GREENLINE by probst

## Laying of pavers and slabs – emission-free, environmentally friendly and ergonomically

The worldwide market leader of handling and laying systems breaks new ground in the field of slab and paver laying systems – with the new GREENLINE concept.

We focus on stepping up energy efficiency and strive for a sustainable environment.

At the Bauma 2019 in Munich, Probst is presenting the **world's** first fully electric **VM-301-GREENLINE Installation Machine** that runs on an innovative rechargeable battery technology.

It performs just like a conventional one running on diesel and can already be used on a construction site for up to seven hours on one single charge.

In the field of vacuum technology, we present the **Vacuum Lifting Device SH-2500-GREENLINE** – an absolute **rechargeable powerhouse** with a maximum working load limit of 2,500 kg. Mains-independent and powerful.

Even in the field of slab laying technology, Probst will introduce the **FLIEGUAN-AKKU-HANDY FXAH-50** – a new rechargeable vacuum hand laying device for landscapers and tile layers.

### Advantage of electric drives

- Better energy efficiency
- Lower energy costs
- Considerably quieter
- Safeguarding human health and the environment from air pollution
- Use in areas with stricter limits on pollutants and noise emissions, such as underground garages near hospitals and schools

# MOVE IT

smart and green

With our innovative products you can pave cleverly, efficiently and ergonomically while contributing to environmental protection – “smart and green”.

Probst has an extensive experience in battery-powered construction site equipment.

The following devices have proven themselves on construction sites worldwide for years: **STONEMAGNET SM-600**, **VACUUM-POWER-HANDY VPH**, **FLIEGUAN-M FXM-30 Vacuum Tile Laying Device** and **Hydraulic Block Cutters AL**. (see page 5)

# The world's first fully electric installation machine – VM-301-GREENLINE

## The new dimension in mechanical paving – emission-free and low-noise

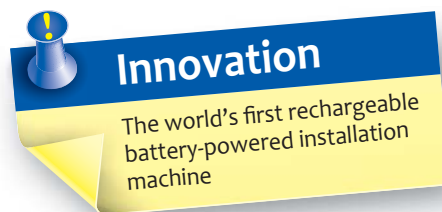
- Lithium-ion rechargeable battery
- Emission-free and low-noise operation
- Very low vibrations
- Very efficient use of energy thanks to the refined electric motors
- Display with indicator for battery level, driving speed, operating hours, etc.

## The innovation by the world-wide market leader of handling and laying systems

- 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
- New operating concept by means of two electronic joysticks
- Electro-hydraulic steering with joystick control



**GREENLINE**  
Paving concept



- Battery technology: Basic version: 2 lithium ion rechargeable batteries at 48 V, 105 Ah. Optional: A third rechargeable battery for 50 % more battery life
- Total: 210 Ah / 10.1 KWh (315 Ah / 15.1 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. 7 h  
Charging time (battery power at 0 %) on a 400 V power supply: approx. 3.5 h
- Max. battery life up to 7 hours of paving operation (without electrical consumers such as heating, fan, lights, radio ...)
- With intermediate charging (e.g. 1 h during lunch break) up to 9 h of paving operation



Easy to understand control elements with optimum view of the clamp/paving edge



Display with indicator

# With cutting-edge rechargeable battery technology – Probst GREENLINE vacuum devices

## Vacuum Lifting Device SH-2500-GREENLINE – the innovative green rechargeable powerhouse

- Emission-free and low-noise operation
- Powered by a 24 V lithium-ion rechargeable battery. (exchangeable battery concept) can operate up to 6 hours
- Included in the scope of delivery: 1 x rechargeable battery and a 230 V/50 Hz charger. The charging time is approx. 2.5 hours
- Suitable for predominantly suction-proof concrete and natural stone elements
- Fitted as standard with load securing chain
- **NEW – optionally available:** Attachment kit with hydraulic rotator Baltrotor and remote control for retrofitting



GREENLINE  
Paving concept



SH-2500-GREENLINE



Type	Power	Working Load Limit WLL* kg (lbs)	Dead Weight (without suction plate) kg (lbs)	Order-Number
SH-2500-GREENLINE-FFS	by 24 V battery	2,500 (5,500)	130 (285)	5240.0048
AKKU-24V/23Ah	Battery for SH-2500-GREENLINE			2420.0142

\* Value at 600 mbar low pressure



FXAH-50

## FLIEGUAN®-AKKU-HANDY FXAH-50 – the new mains-independent Hand Laying Device

- Designed to help landscapers and tile layers lift, move and lay natural stones, slabs and tiles without straining their back
- Significantly easier laying of tiles and slabs, as they do not need to be grasped from the side
- Less risk of edge damage, as laying is more precise and with a better view
- Easy and compact
- Powered by a 14 V lithium ion rechargeable battery. (exchangeable battery concept)
- **Scope of delivery:** 1 x single-handed suction plate with handle, 2 x rechargeable batteries, 1 x charger. In a robust case.

Type	Description	Suction Plate dimension mm (in)	Working Load Limit WLL kg (lbs)		Dead Weight kg (lbs)	Order-Number
			horizontal	vertical		
FXAH-50	Basic device incl. 2 x rechargeable batteries and a 220 V charger	255 x 120 (10 x 4¾")	50 (110)	15 (33)	approx. 1.5 (3)	5850.0007

## STONEMAGNET® SM-600 – the powerful rechargeable battery-powered vacuum lifting device

Mains-independent universal device with a working load limit of 600 kg. Mainly for low-porosity materials, such as granite.

- Powered by rechargeable, exchangeable 12 V battery.
- Power saving control system makes battery lasting for one whole working day



VPH-150



SM-600

Type	Description	Drive	Dead Weight kg (lbs)	Order-Number
SM-600 ①	Basic device, without suction plate	by 12 V battery	34 (75)	5272.0006

## VACUUM-POWER-HANDY VPH

- Power via rechargeable 12 Volt battery; automatic power saver mode; one charge lasts an entire day
- Ideal for all vacuum-dense slabs, such as granite, wetcast concrete, etc.

Type	Suction Plate Dimension mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
VPH-100 ①	260 x 210 (10 1/4 x 8 1/4")	100 (220)*	16 (35)	5271.0009
VPH-150 ①	oval 440 x 250 (17 1/4 x 9 3/4")	150 (330)*	16.5 (36)	5271.0008

\* Value at 500 mbar low pressure

## FLIEGUAN®-M FXM-30 Vacuum Tile Laying Device

- Large-format tiles up to 30 kg smoothly on 2 wheels
- One battery charge supplies the vacuum pump reliably over several days without recharging

Type	Working Load Limit WLL kg (lbs)	Dead weight without counter-weights kg (lbs)	Counter-weight kg (lbs)	Order-Number
FXM-30 ①	30 (65)	41 (90)	5 x 10 (5 x 20)	5850.0002



FXM-30



AL-43/SH-21-V

The environmentally friendly alternative to block sawing.

- ① Durable surface protection by galvanizing

## Hydraulic Block Cutters AL-43/SH range

- Integrated battery with charger
- AL-43/SH-14-V: For burnt clinker, crooked slabs, uneven concrete blocks and concrete paving
- AL-43/SH-21-V: For natural stone, such as granite

Type	Splitting Force t	Blade rigid   flexible	Cutting Length mm (in)	Cutting Height mm (in)	Dead Weight kg (lbs)	Surface	Order-Number
AL-43/SH-14-V	14	C	50 – 430 (2 – 17")	20 – 220 (3/4 – 8 1/2")	125 (275)	Galvanized	5120.0051
AL-43/SH-21-V	21	B	180 – 420 (7 – 16 1/2")	20 – 200 (3/4 – 8")	125 (275)	Galvanized	5120.0052
AL-43/SH-21-H-V	21	B	180 – 420 (7 – 16 1/2")	80 – 300 (3 1/4 – 11 3/4")	150 (330)	Galvanized	5120.0062

# Top seller – for porous slabs as a manual device and as a lifting attachment

## SPEEDY VS-140/200 Vacuum Hand Laying Device – new with an integrated suction plate for up to 50 kg

When connected to a standard power outlet, the powerful vacuum turbine securely and quickly (within 0.5 seconds) adheres to even highly porous slabs and exposed aggregate surfaces.

- **NEW:** A quick-release lock allows various suction plates to be mounted in a matter of seconds onto the integrated suction plate for different purposes, slab sizes and weights
- Existing VS-SPS suction plates can be used via the optionally available VS-GH-SPS retrofit kit
- **NEW:** 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
- **NEW:** Now with unlockable actuating lever for vacuum release. This double safety device secures the paving material against accidental release

**Optional extra: Lifting eye VS-EH with safety chain for risk-free lifting and handling.**



SPEEDY VS-140/200 with VS-EH + VS-GH-WSP-150-90/12-15,5-101°

\*\* Plug type F, 230 V

● Durable surface protection by galvanizingz



With an integrated suction plate for up to 50 kg and handles that can be easily rotated by 90°



**NEW:** The handles can be rotated 90° by simply repositioning them using the 2 bolts.

SPEEDY VS-140/200

Type	Description	Working Load Limit WLL* kg (lbs)	Dead Weight kg (lbs)	Order-Number
VS-140/200 <sup>2</sup> ● **	with suction plate 50 kg	max. 200 (440)	20 (45)	5270.0015
VS-140/200-XL <sup>2</sup> ● **	with suction plate 50 kg	max. 200 (440)	25 (55)	5270.0016
VS-EH ●	Lifting eye with safety chain		2 (4)	4271.0143
VS-140-XL-HG ●	Pair of long handles for VS-140 for slabs up to 1,2 m width		8 (18)	4271.0089
VS-AP ●	Adapter plate for special SPEEDY suction plates		4 (9)	4271.0163

<sup>2</sup> Also available in 110 Volt version

\* Value at 200 mbar low pressure



Easy installation of the handles on the new SPEEDY VS-140/200



MJ-J on SPEEDY VS-140/200

# The new installation clamp for universal use with excavators

## Hydraulic Installation Clamp HVZ-GENIUS-II – 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.

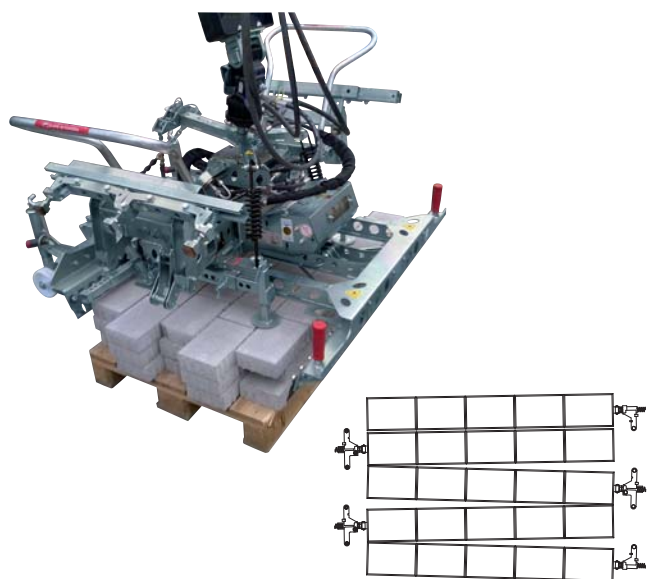
- An inspection glass provides a better view of the drum control's direction of rotation
- Larger safety handles with a new design
- Now with a scale for even easier adjustment of the main gripping width
- Allows automatic shifting of rectangular pavers into running bond
- Grab swing brake between hydraulic rotator and excavator suspension

### Equipped as standard:

- With ADV pushing-off device
- Complete with continuous hydraulic rotator, hoses and suspension for excavator, and now also includes a bracket for quick-release adapters
- **New:** 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

## Shifting Adapter HVZ-VA-SUPERSOFT

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



① Durable surface protection by galvanizing



HVZ-GENIUS-II

Type	Main Gripping Width W mm (in)	For paver thickness* mm (in)	Side Gripping Width L mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs) **	Order-Number
HVZ- ① GENIUS-II	580 – 1,470 (22¾ – 58")	50 – 160 (2 – 6¾")	990 – 1,400 (39 – 55")	400 (880)	approx. 332 (730)	5140.0042

\* Dependent upon the condition of the spacers and the quality of the stones.

\*\* without hydraulic rotator, C-Profiles and suspension.

### Requirements for hydraulic operation:

(Operating hydraulics of the carrier)

- 2 hydraulic control circuits (1 x for grab, 1 x for hydraulic rotator)
- Volumetric flow (l/min), usable min. 25, optimal 35 – 40, max. 80
- Working pressure (bar), usable min. 180, optimal 200, max. 320
- Backflow pressure: max. 10 bar

### Minimum excavator operating weight

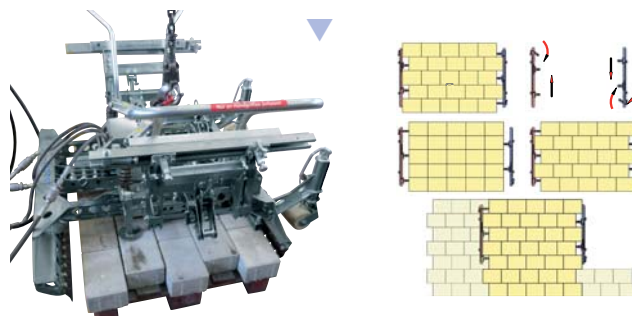
- From approx. 3,5t (operating weight may vary depending on excavator type and form. No binding specifications: must be co-ordinated in the individual case)

### Accessories:

## Shifting Adapter HVZ-VA-180°

For the second installation row, 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.

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 new mechanical RG-SAFELOCK Pipe Grabs

## With a patented safety locking system

The clamping force of the claws is fully maintained in all cases, even if the carrier is operated incorrectly.

- **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

## Round Grab RG-100/150-SAFELOCK – also suitable for really large pipes

- Easy, continuous adjustment of the external diameter by means of a scale from 920 mm to 1,530 mm using threaded spindles. Crank included in the delivery
- Replaceable steel grab clamps with a reliable grip
- Optionally available: rubber gripper jaws for gripping plastic-coated pipes

## Round Grab RG-20/85-SAFELOCK – the top seller now also comes with a patented safety locking system

Increased grip width of up to 870 mm and increased working load limit of 2,500 kg.

- Easy adjustment of the outer diameter by means of a scale and a central lock pin
- Rubber grippers
- Polyamide-coated height adjustment bracket

Type	Outside Diameter of Pipe D mm (in)	Gripper Length mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
RG-20/85-SAFELOCK	200 – 870 (8 – 34")	420 (17)	2,500 (5,510)	approx. 140 (310)	5450.0006

● Durable surface protection by galvanizing



Type	Outside Diameter of Pipe D mm (in)	Gripper Length mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
RG-100/150-SAFELOCK	970 – 1,530 (38 – 60")	460 (18")	6,000 (13,230)	approx. 550 (1,210)	5450.0008



## Innovation

Now with a safety locking system, increased gripping range and higher working load limit

# 50% Time Savings in Pipe Handling

## Concrete Pipe Lifter RVD-4,5-ECO – now with an attachment option for hydraulic rotary gears such as rotators and tilt rotators

By means of the mechanical clamping mechanism pipes cannot slip off thus accurate placement can be easily effected. .

- **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 of 4,500 kg
- 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\*, using a quick-hitch coupling
- **Simple to use:** autonomous, simple pick-up of the pipe lifter through the driver of the excavator, 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



RVD-4,5-ECO

Type	Inner Pipe Diameter mm (in)	Maximum Length of Pipes mm (in)	Working Load Limit WLL kg (lbs)	Dead Weight kg (lbs)	Order-Number
RVD-4,5-ECO	600 – 1,200 (23 – 47¼")	3,000 (118")	4,500 (9,900)	approx. 588 (1,300)	4400.0184

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

Mounting of hydraulic rotators to RVD-4,5-ECO



1. Transport



2. Laying

\* Not included in scope of delivery

# Whether on the construction site or during operation – effortless and ergonomic handling of concrete elements

## Ergonomic Vacuum Control Unit BE-ERGOSPRINT – Picking up and laying 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 and TRANSMOBIL TM.

- 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



BE-ERGOSPRINT in the concrete plant



BE-ERGOSPRINT on TRANSMOBIL TM

Type	For use with:	Dead Weight kg (lbs)	Order- Number
BE-ERGOSPRINT	HE-35 up to HE-250	13 (30)	4210.1305



VAH-12

## Vacuum Sorting Lifter VAH-12 – the vacuum hose lifter with many connection possibilities

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\* 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:** 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	Suction Plate dimension mm (in)	Working Load Limit WLL kg (lbs) **	Order- Number
VAH-12	approx. 195 x 95 ( 8 x 4")	max. 12 (25)	5850.0008

\* wet/dry vacuum cleaner with bypass valve for permanent cooling

\*\* Value at 150 mbar low pressure

# Have you heard about our latest little helpers?

## LEVELHANDY LH

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

- Simply place the LH on the existing screeded level
- Set the height adjustable support via tightening a wing nut to the right height towards the kerb or existing pavement



LH

Type	Working Width mm (in)	Adjustable height stop mm (in)	Dead Weight kg (lbs)	Order-Number
LH	300 (11 3/4")	0 – 250 (0 – 9 3/4")	2 (4)	5100.0088



MP-30

## MINIPLAN MP-30 Sliding Finisher – the little helper for screed correction

This light and handy tool is extremely effective for reworking, correcting or connecting the screed.

- With lightweight, short aluminium handle

Type	Working Width mm (in)	Dead Weight kg (lbs)	Order-Number
MP-30	300 (11 3/4")	0.8 (1.8)	5101.0012



SF

## SAFEFLEX SF – the innovative clamping fixture for safe cutting of stones

With the SAFEFLEX SF, building materials such as cobblestones and natural flagstones can be fixed quickly and safely.

- Non-slip mat to prevent stones from sliding sideways
- Fast and simple adjustment of stone thickness in 10 mm increments using 2 lateral locking bars
- Individually adjustable height of the SF with 4 screws that can be turned in on the bottom
- Saves material since smaller “offcuts” can be safely secured, even with a small supporting surface
- Elevation of the material being cut, so cutting wheel does not go into the ground
- Includes 4 x M12 x 90 screws and 4 x M12 hexagon nuts

Type	Clamping range mm (in)	Height adjustment grid mm (in)	Dead Weight kg (lbs)	Order-Number
SF *	30 – 160 (1 1/4 – 6 1/4")	10 (3/4")	7,7 (17)	5121.0001

① Durable surface protection by galvanizing

\* Drip tray not included in scope of delivery



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Service-App

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#### Site Equipment



#### Tile Handling



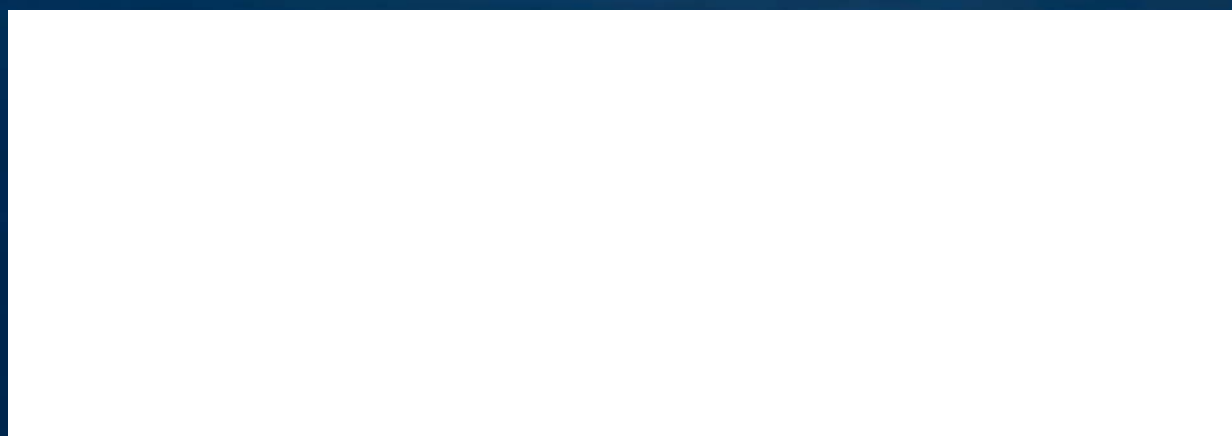
#### Building Material Plants – In-plant Handling



#### Truck Crane Attachments



We will gladly advice you.



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