

Villiger Speed-Gripper

Safe and efficient gripping and lifting

EN



Speed-Gripper

Safe and efficient handling of containers using mushroom-head grippers

The Speed-Gripper emptying device allows for the gripping of a mushroom-type lifting system on all standard recycling collection containers with a total weight of up to 2.5 tons. Thanks to controlled gripping, optimal force transmission and container alignment are possible. You achieve maximum safety and efficiency. The emptying device is equipped with a hydraulic rotary joint block and a rotary motor. A patented clamping mechanism is integrated for safe and precise maneuvering of the container. The opening and closing of the container floor is generated via a hydraulic lever mechanism and ensures rapid operation.

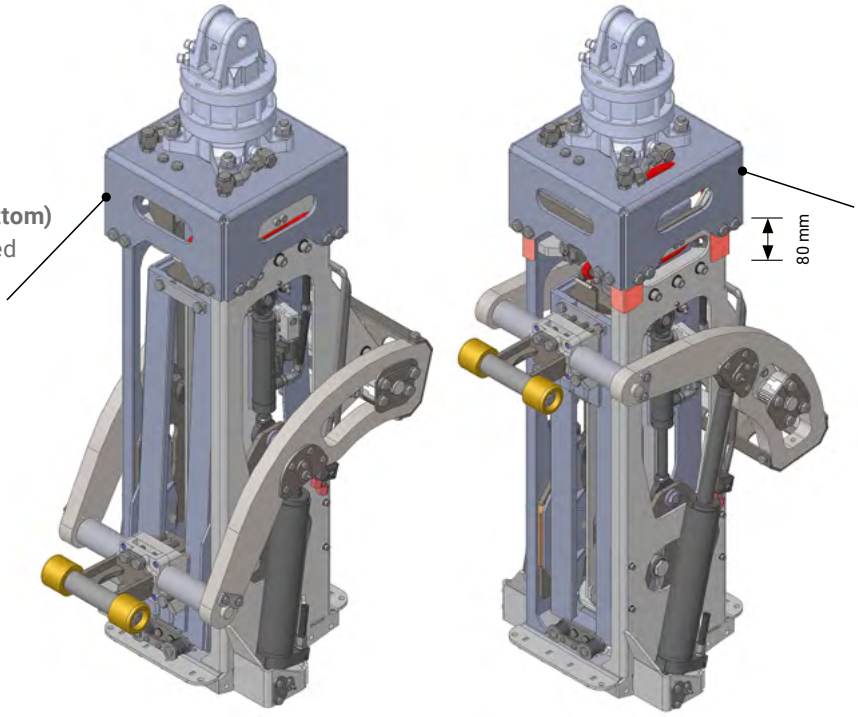
Faster, safer, Speed-Gripper VP 28

A handling device that offers the highest possible level of safety by ensuring the container remains securely clamped in the gripper at all times. Thanks to the patented clamping mechanism, the container remains stable at all times and does not twist within the device. The clamping valve only unlocks when the container is set down on the ground; only then can the gripper be released, and the device is subsequently detached from the container.

Integrated Valve Control

Telescopic head (bottom)
The device is mounted on the container

Device features:
- Mushroom rod lift / close
- Clamping jaws open / close
- No accidental twisting of the container possible



Telescopic head (top)
The device is suspended from the crane

Device features:
- Rotates 360°
- Open/close base
- Clamping jaws are locked

Your benefits

- **Extremely fast emptying cycles: 2 to 3 seconds**
- **Maximum safety when emptying the container**
- **Container is securely clamped in the unit, no twisting**
- **Automatic stroke limit, max. 500 mm**
- **Patented locking mechanism, ensuring the container is held securely at all times**
- **Telescopic suspension with changeover valve**
- **Low overall height**
- **Built-in swing brake for smooth travel**
- **Spring-loaded and adjustable clamping jaws**
- **Double clamping jaws for compatibility with all mushroom systems**
- **Mushroom rod/chain is supported from two sides**
- **Use of standard mushroom discs**
- **Large feed hopper for quick positioning**



Maximum efficiency with every stroke

Faster, safer, and more cost-effective in everyday use

The Villiger Gripper offers clear advantages over conventional systems in day-to-day operation. Thanks to the hydraulic actuation of the mushroom rod, significantly shorter cycle times are achieved, which noticeably speeds up the entire handling process. Under identical operating conditions with 60 containers per day and 200 operating days per year, this results in a time saving of approximately 193 hours per year. Additionally, the Villiger Gripper reduces twisting during handling, thereby minimizing the effort required for position corrections as well as the risk of damage to containers and the system. This not only reduces process times but also significantly lowers the resulting follow-up costs. When comparing operating costs, the Villiger Gripper delivers significant cost savings in the five-figure range per year. It thus sets new standards in terms of cost-effectiveness and makes your waste disposal processes measurably more efficient.

Encourages more movement

If you want to make a big impact, you need a container unloading device that meets the specific requirements of container handling and fits seamlessly into your process chain. With the Speed-Gripper VP 28, you can get even more out of your daily operations.

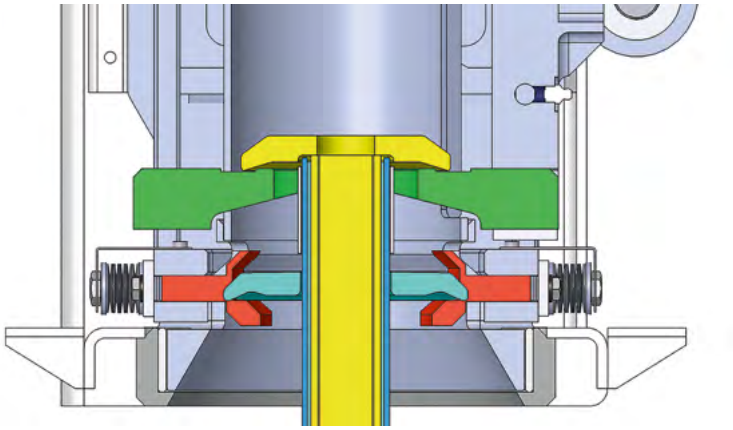
Maximum safety thanks to uncompromising clamping force

Nothing is more frustrating for the driver than when the container twists inside the mushroom-shaped lifting device. The result: The container can no longer be guided precisely, valuable time is lost, and costly damage to the collection container often occurs. While other suppliers attempt to solve this problem with a makeshift fixed mushroom locking rib, our technology offers a more efficient solution: Our mounting device secures the standard fixed mushroom disc so firmly that additional aids become unnecessary.

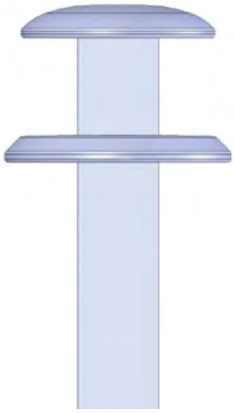
Flexibility without compromise

Of course, our system also supports fixed mushroom-head locking via the internal socket. By installing the VP 28-2 clamping jaw, you can securely grip both types of mushroom-head washers at any time.

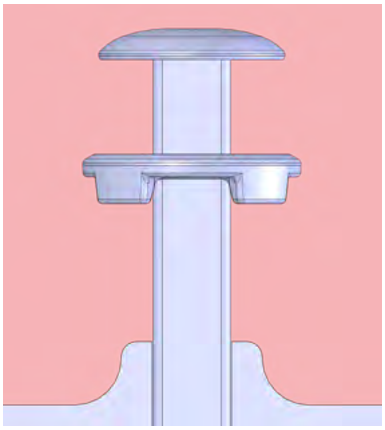




Clamping the fixed disc on both sides



Standard mushroom-shaped washer, 20 mm

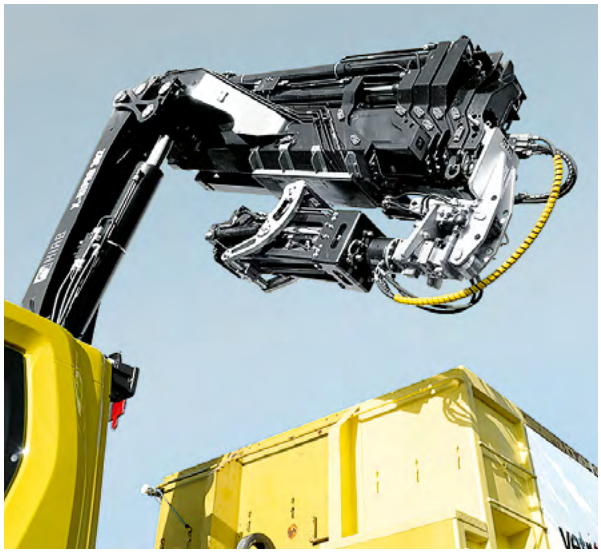


Fixed mushroom-head washer with locking ribs, 32 m

Container Handling – Redefined

The Villiger Speed-Gripper VP28 combines top speed with a safety concept that leaves no room for error. Our top priority is absolute reliability: there is absolutely no risk of the container slipping out of the gripper. In addition, the system offers the operator maximum comfort and ergonomics in daily operations thanks to its intuitive crane controls.

Receiving unit with integrated wireless crane scale. VP 28 container-type tipper with hydraulic tipping mechanism, including swing brake. Tipping mechanism, type AFV 128







Z-loading crane with grapple VP 28 and the tilting mechanism Type VPK 128

The right attachment for every crane

A wide variety of different loading cranes are used in container consolidation operations.Our Speed-Gripper unloading device is designed to meet all these requirements. One challenge that should not be underestimated is stowing the lifting device for road transport. Villiger has developed a suitable solution for this purpose.



Position the telescopic arm vertically and extend it into the console

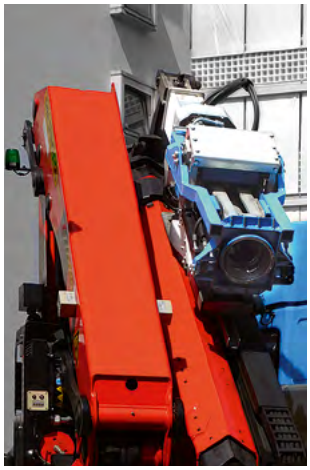


Retracting the crane



The equipment is secured, the crane is retracted

Folding device, Type VPK 128 (gooseneck)









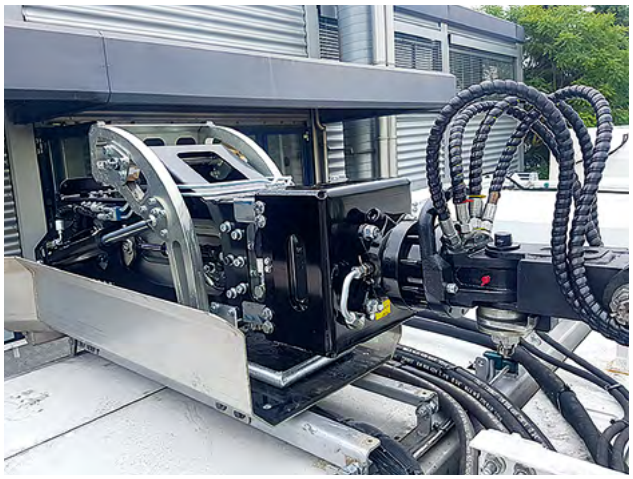
Lifting device including a pendulum brake and a crane radio scale

Roof crane with VP 28 unloading device.
Retraction to the overhead
parking position, Type VPD 128



Compatible with all standard or conventional crane systems

Standard crane systems can be supplemented with the Villiger Speed-Gripper VP 28. Its hydraulic system is compatible with both open and closed slide gates (crane superstructure), and the hydraulic head features a unique 360° swivel joint. Thanks to the hopper centering mechanism, positioning on the receiving mushroom is particularly easy. A swing brake and the telescopic suspension reduce unwanted movements and enable a smooth unloading process.



The recording device is in the park position

Tilting from the tailgate







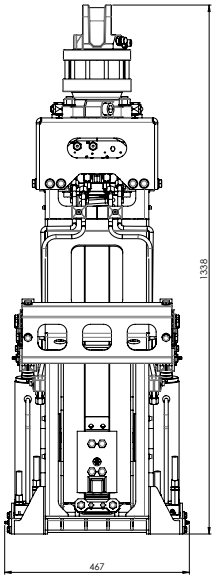
Park the unit at the rear; use parking console type VPH 028

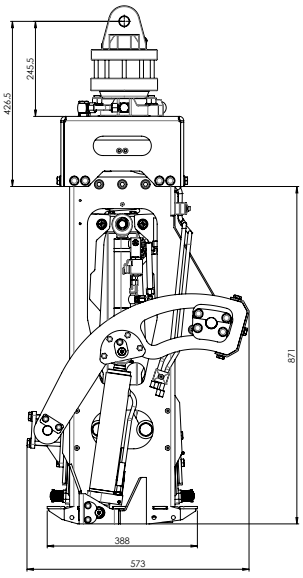


Speed-Gripper with hook adapter, model VPV 020



Speed-Gripper with modified tilting mechanism, Type VP 128





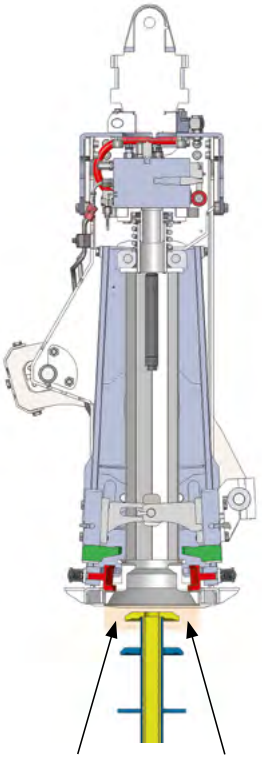
Technical Specifications

Net weight:	240 kg
Load capacity:	2500 kg
Operating pressure:	210 bar (maximum pressure protected by shock valves)

Speed-Gripper VP 28

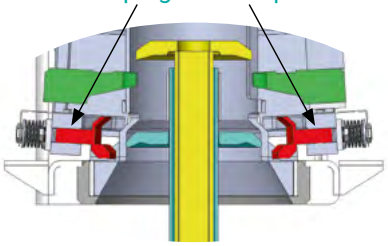
With clamping jaws for standard fixed discs, 16 mm

Traditional mushroom system with a mushroom rod or chain



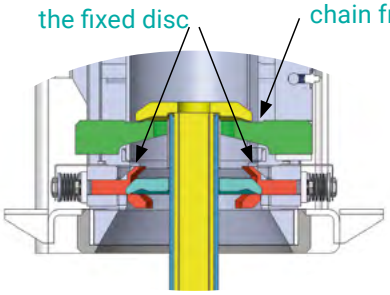
Large feed hopper
for quick positioning

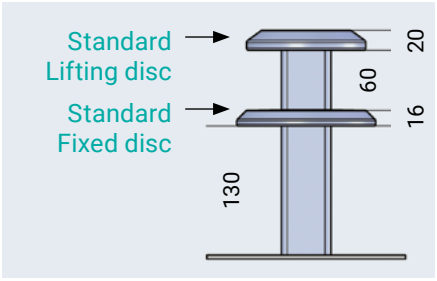
Clamping device open



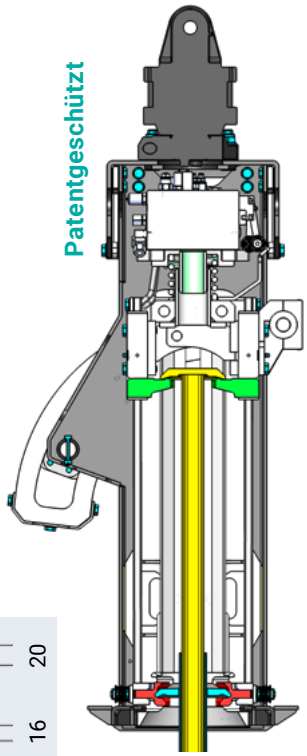
Clamping on
both sides of
the fixed disc

Lifting the mushroom rod/
chain from both sides





Patentgeschützt

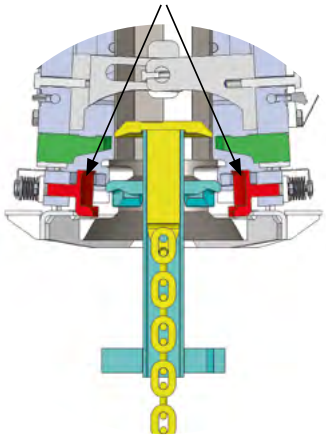


Speed-Gripper VP 28-2

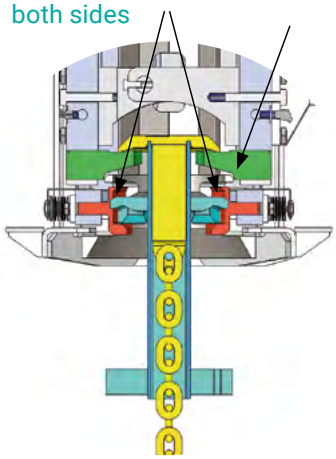
With clamping jaws for 16 mm fixed discs
and 32 mm locking ribs

Traditional mushroom system with a mushroom rod or chain

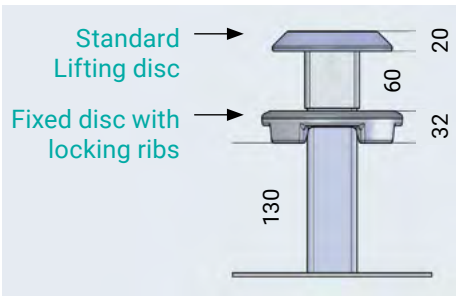
Clamping device
open

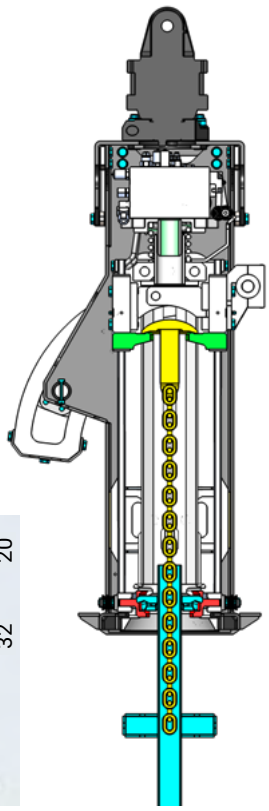


Clamping the
fixed disc on
both sides



Lifting the mushroom bar/
mushroom chain on both sides



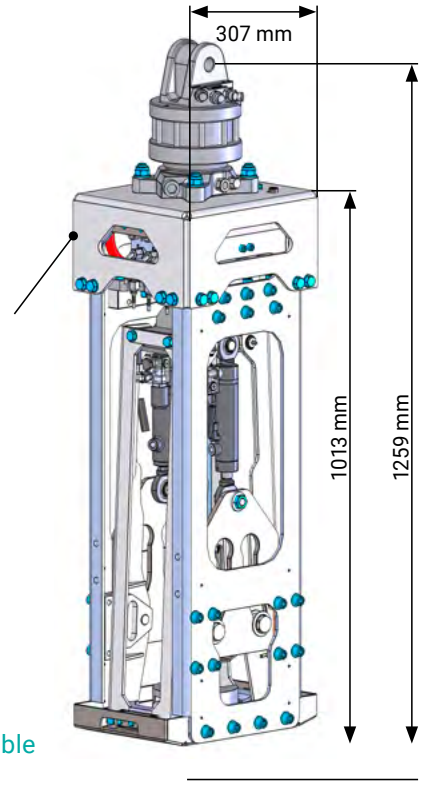


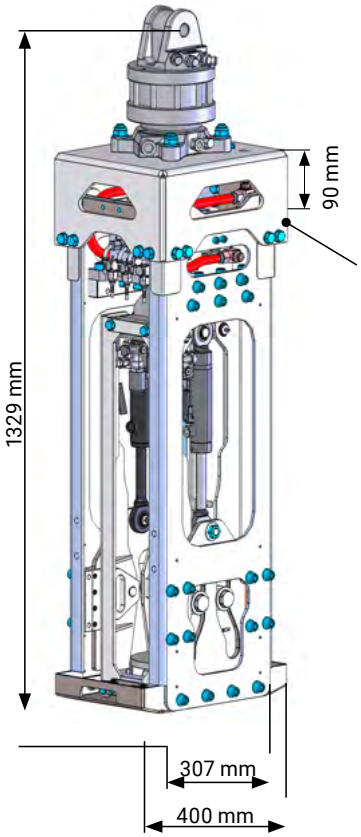
Speed-Gripper Easy F90

The new Speed-Gripper Easy F90 is an evolution of the VP28, featuring the same proven clamping mechanism, as well as the same hydraulic rotary joint block and rotary motor. Opening and closing are powered by a hydraulic cylinder, ensuring very fast operation.

Telescopic head (bottom)
The device is mounted on the container

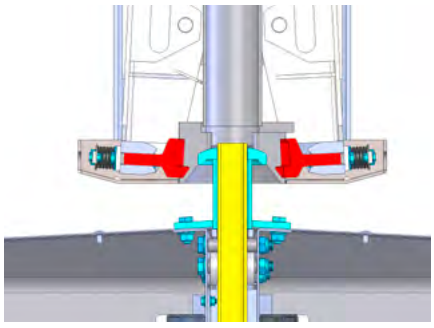
Device features:
– Easy-System lift / close
– Clamping jaws open / close
– No accidental twisting of the container possible

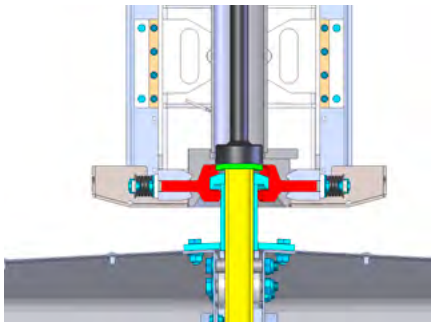


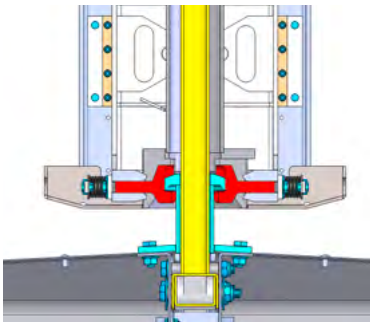


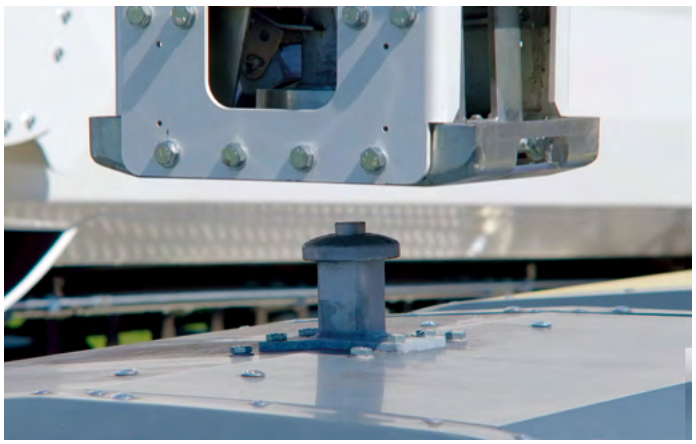
Telescopic head (top)
The device is suspended from the crane

Device features:
– Rotates 360°
– Open/close the base
– Clamping jaws are locked: The container can never fall out of the clamping jaws!

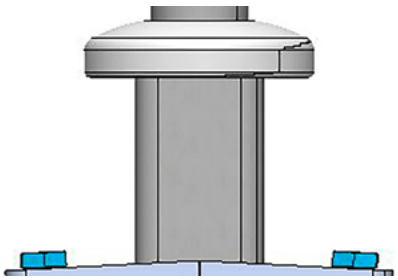








Container Emptying with Easy-Loading System




Speed-Gripper
Easy F90
villiger







Electrical control system for multi-chamber container unloading



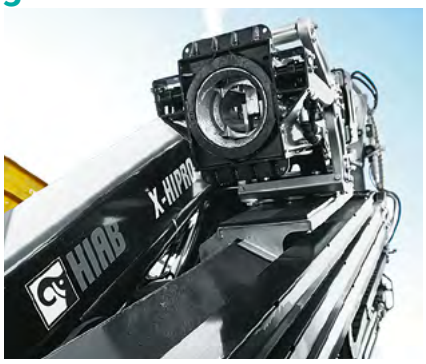
Speed-Gripper Dual for multi-chamber container emptying

The new Speed-Gripper Dual system extension enables the precise and efficient emptying of multi-chamber containers. The independent electrical control system can operate the individual bottom flaps of the containers separately. This allows for significantly more efficient emptying, particularly with two-chamber containers. The extension can be retrofitted to any standard Villiger Gripper. The robust construction of the entire system, the low-maintenance design, and the optimized hydraulic system ensure fast, consistent work cycles with high reliability, even under the toughest operating conditions.

Gripper Parking Position VP 28 / VP 28-2

VAV 128 Hydraulic Folding Device





Tilting mechanism using
a hydraulic cylinder on the crane boom
with an integrated swing brake
(please specify the exact crane model)

Parking position VPK 128

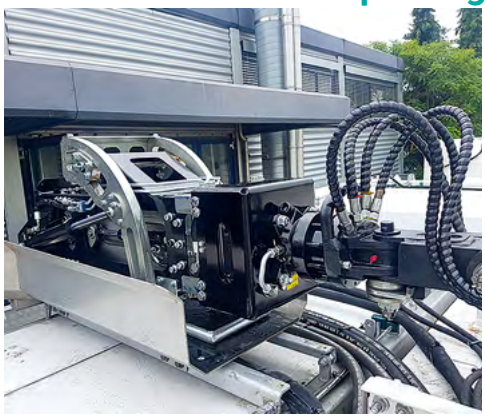


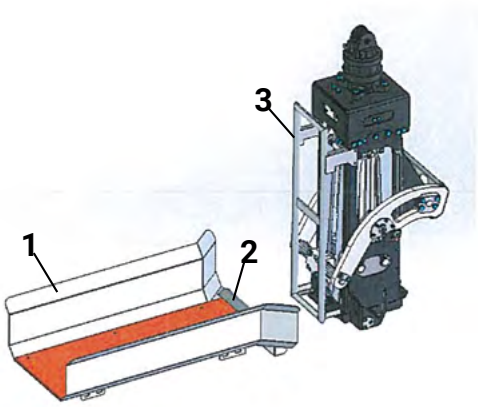




Consisting of:
1 Parking brake unit
2 Centering bracket

Roof-mounted crane parking console VPD 128





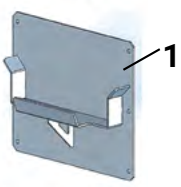
Consisting of:
1 Stainless Steel Parking Console
2 Guide roller
3 Tubular slide assembly

Rear Parking Console VPH 028





Consisting of:
1 Steel bracket
galvanized



Pendulum brake including bolt



Manual Pilz
Lifting Device MPA 20

Only lifting devices specifically designed for this purpose provide the necessary safety to lift containers without risk. Thanks to the Pilz lifting device MPA 20 from Villiger, you can safely move above-ground and underground containers equipped with a Pilz emptying system using any standard crane.

The MPA 20 mushroom-head lifting device stands out in particular for its low profile, compact design, and robust mechanics. This ensures you remain independent in any situation and do not require hydraulic connections. Containers equipped with the mushroom-head emptying system can thus be safely lifted and moved without modification. On solid ground, the mechanism can be unlocked to open or locked to secure the bottom.







Lift with the container floor secured and closed.



Moving the container with the floor unlocked.

Applications and How It Works

The Villiger MPA 20 manual mushroom-head container lifter is particularly well-suited for fire departments, maintenance depots, service providers, waste management companies, and anyone who needs to lift, move, or empty individual containers. A pull rope activates a mechanism that allows the container – whether with a closed or open bottom – to be lifted safely.

Technical Details

Lifting capacity:	up to 2 tons
Weight:	approx. 30 kg
Color:	Red
Included:	Lifting device incl. pull rope

Safety Warning

When lifting containers using a mushroom-type emptying system, use only the lifting equipment provided for this purpose. Under no circumstances should you use straps, chains, or similar items. This will help prevent damage and accidental emptying.





Subject to technical changes

managing waste. managing future.

Villiger Entsorgungssysteme AG
Bahnhofstrasse 13, CH-5647 Oberrüti
T +41 41 784 23 23
info@villiger.com

Subject to technical changes. April 2026

villiger.com

Villiger Infratec AG, CH-Oberrüti / Villiger Entsorgungssysteme GmbH, DE-Schemmerberg
Villiger Austria GmbH, A-Salzburg / Villiger Tecnologie Ambientali Srl, IT-Vicenza
Villiger Technic d.o.o., BIH-Laktaši / Villiger España