



## Vacuum Tube Lifters

There's a simple answer for the perfect way of handling - the tube lifters by FEZER.

The FEZER tube lifters provide intelligent solutions which are simple, ergonomic and child's play to operate. Suitable for lifting sacks, cardboard boxes, drums, plates and many more up to a weight of 200 kg.

No additional lifting aids like chain hoists or wire balancers are required as you can use the same medium for engagement and lifting – vacuum.

The FEZER tube lifters are a simple and safe handling device that provide an enormous extra benefit regarding economy, ergonomics and safety combined with comparably low investment costs.

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## Vacuum Tube Lifters

### Introduction

### Engagement and Lifting rolled into one

The FEZER tube lifters provide intelligent, efficient and above all extremely simple-to-operate handling devices. With just one hand the devices can be lifted or lowered. The operator himself can decide what speed he wants for the handling process.

The FEZER tube lifters are an absolutely safe handling device to master engaged loads. Even in case of a power failure the loads are not just dropped off, but are lowered slowly to the ground. To achieve this an integrated non-return valve is installed in the upper turning head.

The required vacuum is built up by powerful, low-maintenance and robust vacuum generators like oilless vacuum pumps, belt-driven blowers or multi-stage ejectors that run on compressed air.

The unique modular system allows to adapt the FEZER tube lifters to your individual requirements in a simple way. A multitude of suction feet is available to allow the transport of different goods. Extensions for the control handle, turning and swivel features and various adaptations are available to adjust the tube lifters to personal needs and requirements.



### Tube Lifters in Action

- 1 VacuPowerlift for handling sacks
- 2 VacuQuicklift for commissioning of beverage boxes
- 3 VacuQuicklift for handling cardboard boxes
- 4 VacuPowerlift for handling boxes up to 60 kg



### VacuPowerlift – tireless and powerful

The VacuPowerlift convinces by its simple and easy operation. With a single hand loads of up to 200 kg can be moved and handled effortlessly.

Supported by powerful pumps and blowers lifting speeds of up to 50 m/min can be reached. This guarantees a high output when stacking and commissioning different kinds of transport goods.

The VacuPowerlift distinguishes itself not only by its easy operation and high functionality but also proves to be an ideal colleague. It relieves its operator the whole day long and thus guarantees a more humane and safer place of work where the job truly becomes fun.



### VacuPowerlift in Action

- 1 Handling of sacks
- 2 Handling of large chipboards
- 3 Handling of steel blanks
- 4 With pneumatic gripper for coils

## Vacuum Tube Lifters

VacuPowerlift VPL

### VacuPowerlift – multifunctional and flexible

The application areas of the VacuPowerlift are almost limitless. It is being used in many industries and trade companies to simplify production processes and to increase the profitability.

- Packing and logistics for cardboard boxes
- Chemical and pharmaceutical industry for drums and containers
- Window and solar industry for window panes and prefab parts
- Wood, plastic and sheet metal industry for plate materials
- Construction industry for stones and concrete parts
- Loading of CNC machines of all sorts
- Handling of machines and machine parts
- Electrical industry for electrical appliances
- and many more



Carrying capacity		VPL 100	VPL 120	VPL 140	VPL 160	VPL 180	VPL 200	VPL 230	VPL 250
on dense/porous material	(kg)	30/25	40/35	50/45	65/60	85/80	110/100	140/120	200/160
<b>Pump/blower</b>									
on dense material		T 4.40	T 4.40	SKE 2,2	SKE 2,2	SKE 3,0	SKE 3,0	SKE 3,0	SKE 3,0
on porous material		SKE 2,2	SKE 3,0	SKE 3,0	SKE 3,0	SKE 4,0	SKE 4,0	SKE 4,0	SKE 4,0
<b>Technical data</b>									
Tube diameter	(mm)	100	120	140	160	180	200	230	250
Lifting speed	(m/min)	30 ... 50	30 ... 50	40 ... 50	40 ... 50	40 ... 50	40 ... 50	40 ... 50	40 ... 50
Tube length	(mm)	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Total height	(mm)	2.750	2.750	2.750	2.750	2.750	2.750	2.750	2.750
Max. stroke of lifting tube:	(mm)	1.750	1.750	1.750	1.730	1.730	1.700	1.700	1.680
Noise level	dB(A)	< 73	< 73	< 73	< 73	< 73	< 73	< 73	< 73

### VacuPowerlift in Action

- 1 Double tube lifter for 200 kg plastic plates
- 2 Handling of solar panels with pneumatic swivelling
- 3 Handling of sensitive glass panes
- 4 Handling of raw, large-sized chipboards

### VacuPowerlift - manifold Selection of Suction Feet and Grippers

There is a multitude of standard suction feet which allows to adjust the VacuPowerlift to individual applications.

- Single suction feet in flat or bellows design
- Single suction feet for handling sacks
- Double suction feet for handling cardboard boxes
- Fourfold suction feet for large-sized plates
- Special suction feet for individual tasks
- Mechanical grippers for parts that cannot be engaged by vacuum
- Pneumatically grippers to clamp workpieces
- Crate grippers



Pneumatically gripper for handling coils or tubes



Mechanical gripper as undergripper for glass panes



Special suction foot for lateral engagement of cardboard boxes



Mechanical gripper for crates with suspension clips



Special suction foot for simultaneous handling of several concrete stones



Pallet gripper with pneumatically adjustable undergrippers



Single suction foot in round design



Single suction foot in hexagonal design



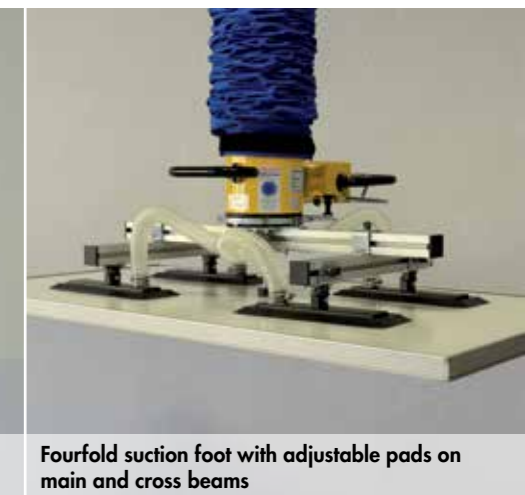
Single suction foot in bellows design



Single suction foot for sacks



Double suction foot with adjustable pads on main beam



Fourfold suction foot with adjustable pads on main and cross beams

### VacuPowerlift – Accessories and Options

There is a multitude of standard elements available for various tasks. These elements allow to adjust the VacuPowerlift to individual requirements.

- Quick-change couplings for changing suction feet quickly without need to interrupt the operation process
- Extensions and joints for the control housing to adjust to workpiece dimensions and working heights
- Endless rotation feature to rotate engaged workpieces
- Suction head extension for dipping into crates or boxes
- Silencer box for vacuum generator to reduce the noise level
- Manual and pneumatical swivel and turn-over features
- Quick-ventilation for simple and quick disengagement of dense workpieces
- Remote control on control housing for switching the blower on and off



Control housing with tilting lever for intuitive and simple operation



Extension for control housing for large-sized workpieces



Joint for control housing for covering high stacking heights



Pneumatical swivelling to swivel workpieces by 90°



Pneumatical turn-over feature for flipping workpieces over by 180°



Silencer box to reduce the noise level



Suction head extension for dipping into boxes



Quick-change coupling to exchange suction feet without interruption of the operation



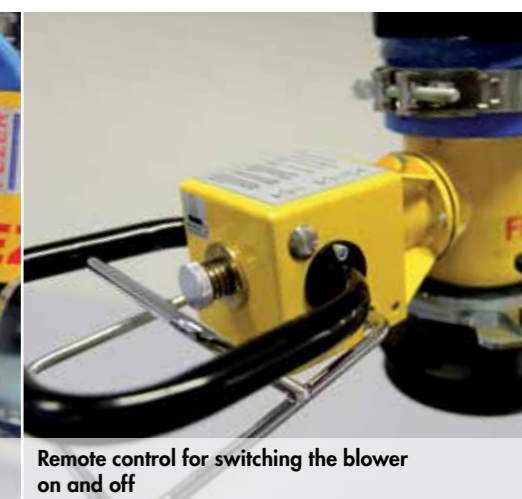
Endless rotation feature for rotating engaged workpieces



Balancer to balance an extended control handle



Quick-ventilation with lockable safety hook for easy disengagement of dense workpieces



Remote control for switching the blower on and off