

## 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



**FEZER**  
Simply move 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
- Pneumactical grippers to clamp workpieces
- Crate grippers



Pneumactical 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



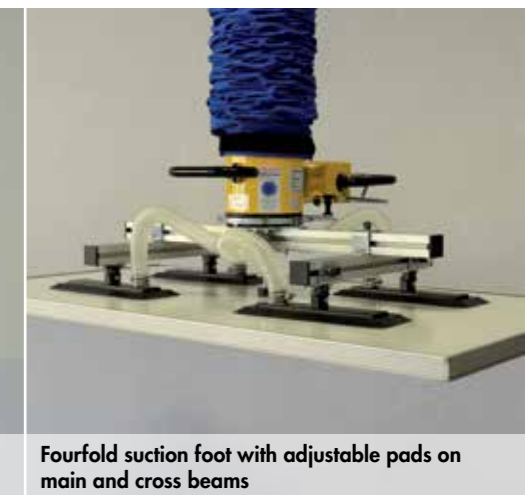
Single suction foot in bellows design



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



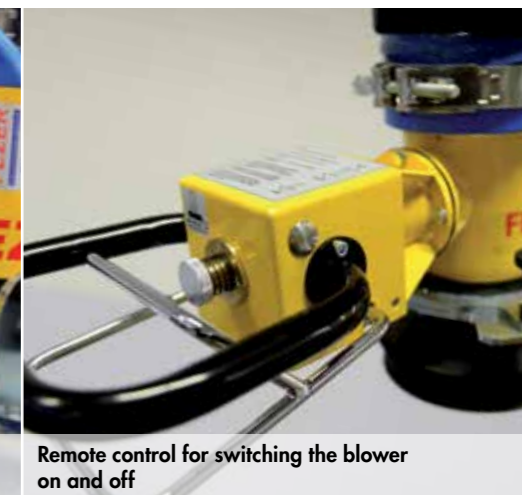
Endless rotation feature for rotating engaged workpieces



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



### VacuQuicklift – faster ain't possible

The new vacuum tube lifter VacuQuicklift unites many advantages. The control lever incorporates all functions – engagement, lifting, lowering and release

The unique „quick-release-system“ automatically lifts off the VacuQuicklift on release; tilting is no longer necessary.

This allows for the VacuQuicklift to work incredibly fast and guarantees shortest cycle times. Ideal if boxes, containers or crates have to be commissioned or restacked.



### VacuQuicklift in Action

- 1 VacuQuicklift with double suction foot for cardboard boxes
- 2 Commissioning of boxes with the VacuQuicklift
- 3 VacuQuicklift with mechanical crate gripper
- 4 Handling moulded components with mechanical gripper

## Vacuum Tube Lifters

VacuQuicklift

### VacuQuicklift – just handy

The VacuQuicklift is available in two basic designs. On the one hand for strictly horizontal lifting, on the other hand with manual swivelling which allows to manually tip over workpieces. In both cases the VacuQuicklift is controlled with only one control lever which makes the handling very easy and ergonomic. With the free hand the loads can be manoeuvred to the required place. The VacuQuicklift not only relieves the daily work, but also increases the ergonomomy and the profitability in many areas.

- Commissioning, placing cardboard boxes in and out of storage
- Handling canisters, containers and small drums
- Handling baggage in airports
- Handling sacks and packages
- Handling plastic moulded parts



**FEZER**  
Simply move more.

Carrying capacity		VPL 80	VPL 80-90	VPL 100	VPL 100-90
on dense/porous material	(kg)	25/20	25/20	35/30	35/30
<b>Pump/blower</b>					
on dense/porous material		T 4.25	T 4.25	T 4.25/T 4.40	T 4.25/T 4.40
<b>Technical data</b>					
Handling		horizontal	horizontal/swivelling	horizontal	horizontal/swivelling
Tube diameter	(mm)	80	80	100	100
Lifting speed	(m/min)	30 ... 50	30 ... 50	30 ... 50	30 ... 50
Tube length	(mm)	2.500	2.500	2.500	2.500
Total height	(mm)	2.750	2.750	2.750	2.750
Max. stroke of lifting tube:	(mm)	1.750	1.750	1.750	1.730
Noise level	dB(A)	< 65	< 65	< 65	< 65

### VacuQuicklift in Action

- 1 Commissioning of beverage boxes
- 2 Unloading cardboard boxes
- 3 Handling crates
- 4 Handling plastic canisters with mechanical undergripper

### VacuQuicklift - Accessories and Options

There is a variety of standard elements available that allow to adjust the VacuQuicklift easily to individual applications. See the multiplicity of the VacuQuicklift for yourself and find the proper solution for your handling task.

- Single suction feet in flat and bellows design as well as for sacks
- Double and fourfold suction feet with adjustable suction pads to adjust to different workpiece dimensions
- Special suction feet for special applications
- Quick-change couplings for fast exchange of various suction feet without need to interrupt the operation
- Vacuum generators with silencer for noise reduction by 5 dB(A)
- Remote control to switch the vacuum generator on and off, straight from the control housing
- Endless rotation feature for stacking workpieces at various angles



VacuQuicklift for horizontal handling



VacuQuicklift with swivelling



Quick-change coupling with bayonet connector and arrests



Endless rotation feature with arrest



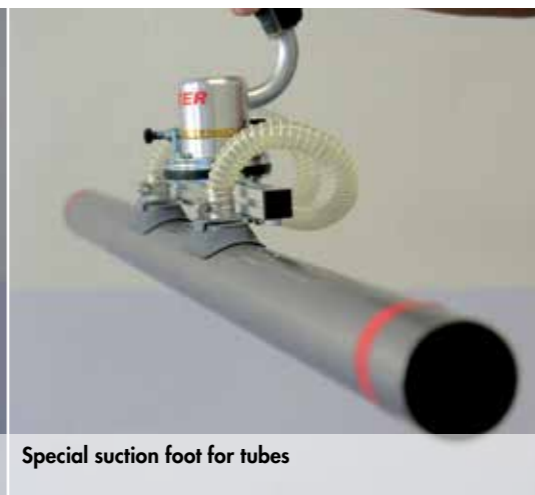
Vacuum generator with silencer box to reduce the noise level



Remote control to switch the vacuum generator on and off



Canister gripper with balancer valve



Special suction foot for tubes



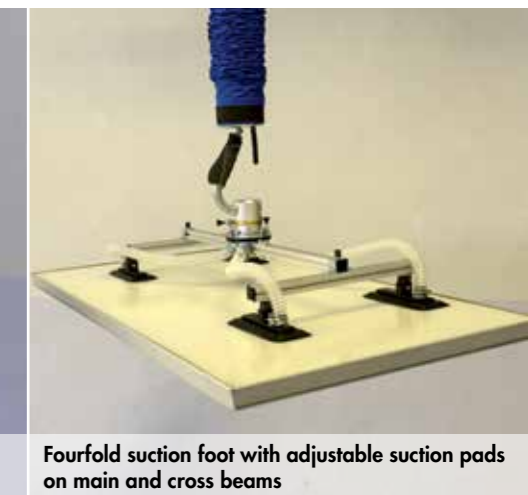
Single suction foot for sacks



Single suction foot in bellows design



Double suction foot with adjustable suction pads on main beam



Fourfold suction foot with adjustable suction pads on main and cross beams