

Vacuum Load Lifting Devices

The FEZER vacuum load lifting devices convince by their robust design, their long-life cycle and above all by their easy handling combined with high safety features.

They increase the efficiency and profitability of production processes as well as work safety and ergonomoy. Using vacuum load lifting devices relieve the operators and prevent a high illness rate caused by overwork.

FEZER vacuum load lifting devices support your daily work, increase the productivity and work safety combined with comparably low investment costs. Look and see.

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Vacuum Load Lifting Devices

Introduction

Areas of Application

The individual device series is designed for various applications and ensure a process-safe and economical production run. With the help of vacuum technology workpieces can not only be easily and fast engaged but also be transported damage-free and safely. For these reasons the lifters are being used in many fields of industry:

- Handling of aluminum, steel, glass, chipboard and plastic plates
- Handling of coils and split strips
- Transport of wood, gluelam beams, chipboards, MDF and OSB plates
- Feeding of CNC, punching and nipple machines
- Commissioning, putting into and out of storage
- Used in roller mills, automobile industry, wind energy, aeronautics, stone and concrete industries

Unique Safety Concept

All device series are absolutely safe, reliable and correspond to the current DIN EN 13155. Largely dimensioned vacuum safety tanks and integrated warning units ensure the highest operational safety, also in case of a power failure.

Additionally all manually operated FEZER lifters are equipped with the unique „Main Switch Supervision“. This feature sends out a warning signal should loads become engaged solely by the remaining vacuum in the tank while the main switch is off. This supervision sets new standards on vacuum load lifting devices when it comes to operational safety.



FEZER
Simply move more.

VacuBoy in Action

- 1 Feeding a laser cutter with the help of a VacuBoy
- 2 Transport of metal sheets by a VacuBoyMini in power-independant battery design
- 3 VacuBoy for commissioning steel sheets
- 4 VacuBoy VB-180E for turning over furniture parts

Basic Equipment

FEZER vacuum lifters convince by their clever design. The lifters can be adjusted to individual customer's requirements and desires easily and problem-free. The devices have very high safety and comfort features as a standard:

Safety:

- Main switch supervision on lifters with handslide valves (warning signal when loads are engaged with turned-off main switch)
- Large-dimensioned safety tank integrated in the lifter's main beam
- Non-return valve between vacuum generator and safety tank
- Manual vacuum control by lockable handslide valve
- Vacuum gauge with „red-green“ area for visual supervision
- Acoustic warning unit for decrease of vacuum and power failure
- Large-dimensioned vacuum filter to protect the valves and pumps

Comfort:

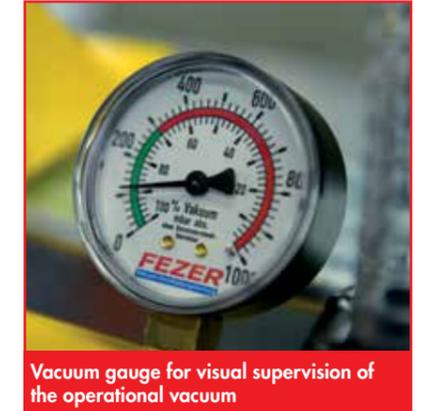
- Push-buttons with emergency-off on lifters with electrical movements (swivelling, turning over, or rotation)
- Various suction pads for smooth, rough or grooved surfaces
- Movable suction pads to adjust to varying workpiece dimensions



Main switch surveillance by vacuum switch in distribution line



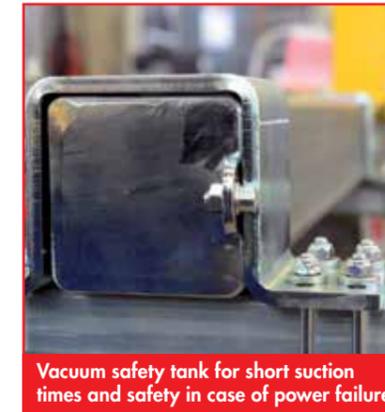
Acoustic warning unit goes off in case of vacuum decrease or power failure



Vacuum gauge for visual supervision of the operational vacuum



Non-return valve to prevent a venting via the pump in case of a power failure



Vacuum safety tank for short suction times and safety in case of power failure



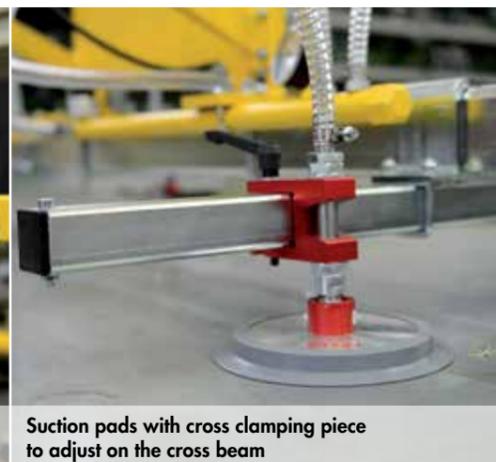
Manual vacuum control via handslide valve with arrest



Large-dimensioned dust filter with exchangeable filter cartridge



Manipulating handle with push-buttons and emergency-off on lifters with electrical movements



Suction pads with cross clamping piece to adjust on the cross beam



Mounting element with clamping screw to adjust the cross beam



Manifold selection of suction pads for different surfaces



Powerful, robust and low-maintenance pumps for highest safety

Options

The lifters can be additionally equipped with a multitude of options to meet your individual safety and comfort requirements:

Safety:

- Optical warning unit with large green and red lamp for „ready for operation“ and „malfunction“ and acoustic howler on power failure
- Disposal stands to protect the suction pads when lifter is set down

Comfort:

- Electrical vacuum control with two-hand operation via push-buttons
- Switching automatic with alternate suction and release activation
- Universal holder for crane pendants with Velcro fastener
- Electrical control functions by push-buttons for crane movements
- Vacuum-controlled motor switch to save energy and reduce the noise level

Further Options:

- Swivel feature with angle adjustment of the manipulating handle
- Water separator for use on water jet machines
- Battery pack for operation independant of power
- Air pack with pneumatical warning unit for compressed air operation



Optical warning unit with green and red lamp and howler for power failure



Electrical vacuum control via solenoid valve



Switching automatic with automatic suction and release on setting down



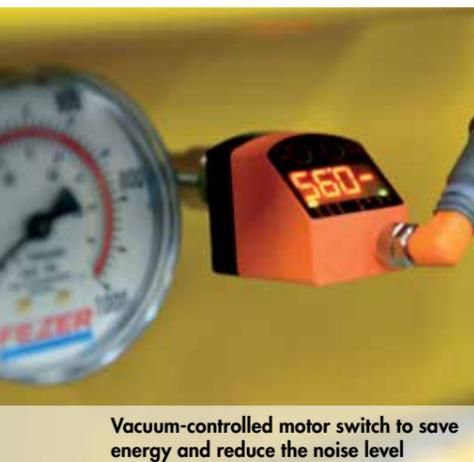
Universal holder for crane pendants



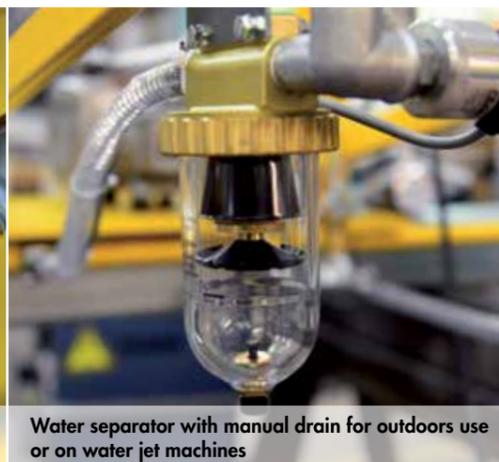
Direct control of crane movements via push-buttons on the manipulating handle



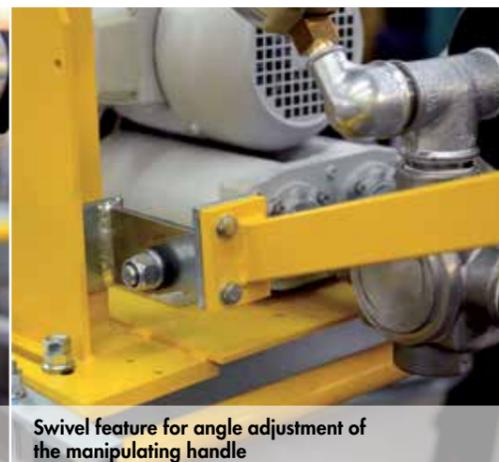
Disposal stands for safe parking of the lifter and protection of the suction pads



Vacuum-controlled motor switch to save energy and reduce the noise level



Water separator with manual drain for outdoors use or on water jet machines



Swivel feature for angle adjustment of the manipulating handle



Ball valves to switch individual suction pads on and off



Air Pack: strictly running on compressed air via ejector and pneumatical warning unit



Battery Pack: power-independant operation via 24V pump and batteries

VacuWood / VacuPoro

Rough planks, heavy boards, meter-long gluelam beams or porous plates of all kinds - the lifter series VacuWood and VacuPoro have everything under control



VacuWood	75/76
VacuPoro	77/78

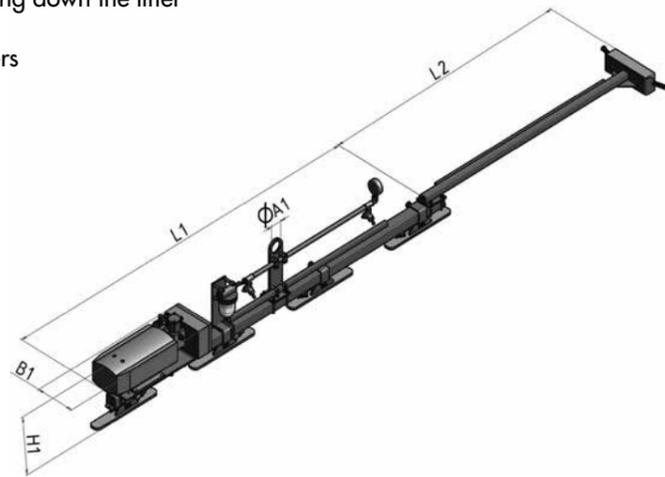
Vacuum Load Lifting Devices

VacuWood VW

Horizontal Transport of Floorboards, Planks and Gluelam Beams

With the lifter series VacuWood rough boards and planks can be handled safely and gently. Even gluelam beams with lengths of over 24 m can be engaged and transported. Special suction plate suspensions are available to adjust to the bending of the gluelam beams. For „extreme“ boards with knotholes or cracks special suction plates are available that close automatically and keep up the vacuum. As a standard the lifters are equipped with handslide valve, adequately large safety tank and an acoustic warning unit.

- For rough and smooth surfaces
- Automatic switch-off of suction pads on cracks and knowholes
- Special suction plate suspension for the transport of long gluelam beams
- Suspension eyes with pre-load to stabilize when putting down the lifter
- Special solutions and individual adjustment of the lifters



Capacity (kg)	Type	Workpiece dimensions		Pump	Number of suction pads	L1 (mm)	L2 (mm)	B1 (mm)	H1 (mm)	A1 (mm)	Own weight (kg)
		max (mm)	min (mm)								
125	VWB-80/2	6.000 x 800	1.500 x 120	T 4.25	2	3.000	1.800	300	530	80	125 ... 135
250	VWB-80/2	6.000 x 800	1.500 x 190	T 4.25	2	3.000	1.800	300	530	80	130 ... 140
500	VWB-80/2	6.000 x 1.000	1.500 x 270	T 4.25	2	3.000	1.800	300	530	80	135 ... 145
750	VWB-100/4	6.000 x 1.000	2.500 x 270	T 4.40	4	3.000	1.800	300	530	80	165 ... 175
1.000	VWB-100/4	6.000 x 1.000	2.500 x 270	T 4.40	4	3.000	1.800	300	530	80	165 ... 175

VacuWood VWB/VWBL in Action

- 1 Gluelam beam lifter VacuWood VWB for handling sawed boards up to 500 kg
- 2 VacuWood VWB with electrical width-adjustment to pick up 2 boards at the same time
- 3 Gluelam beam lifter VWLB to handle 20 m long gluelam beams
- 4 VacuWood VWB used at a horizontal saw