



VacuHandling

Handling made easy – economic solutions
for every type of material and various requirements

www.vacuhandling.de

FEZER
Vacuum - Material - Handling



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Just move more – wi

Efficient, high-quality products and an outstanding service combined with competent, fair consulting – that is *FEZER*. As a leading company for vacuum handling our world-wide reputation has been excellent – for the past 75 years.

Why not choose a simpler kind of handling, more efficient production processes and higher operational safety? Root for *FEZER* and just move more – you will not regret it.



*Efficient handling
of steel sheets*



*Efficiency
in shipyards*



*Efficient handling
of wooden boards*

th FEZER

Always the best solution

When designing our products we always focus on the requirements of our customers. Their problems and our long-standing know-how have often resulted in masterpieces that set new standards. The first priority is always operational safety, ergonomic operation and simplicity of the systems. To live up to these high expectations and to further develop our processes Fezer is certified according to DIN ISO 9001:2000.

Always there for you

Whether you require advice, delivery or service support – FEZER will help you in any case, quickly and reliably. Our competent servicemen help you with installations and setting the system into operation; regular maintenance guarantees a high measure of operational safety of the system in use.





FEZER vacuum handling devices are one of the most commonly used products for dealing with different work pieces. No matter if you have to load drums, place stone slabs, move machine parts or plate-like materials, coils and split strips. The vacuum handling technology from *FEZER* allows you to carry out your handling tasks in a safe, gentle and, above all, very quick way.

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VacuHandling – alwa

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Manipulating handle with mounted hand slide valve with safety catch for "suction" and "release"



Universal holder for all common crane pendants



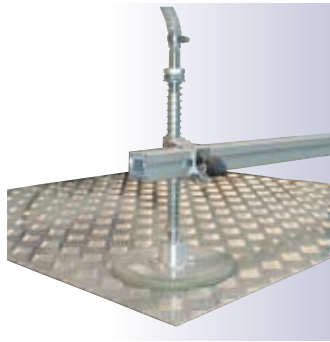
User-friendly push-buttons for control of "suction-release", swivelling or all crane functions



"Pneumatic Tool" for compressed air operation and pneumatic warning unit



Water separator for moist and slightly wet goods, ideal for water cutting machines



Suction plate suspension with top and bottom springs for gentle handling and ideal load balance on more than 4 suction plates



"Battery Pack" for power-independent operation by battery and charger



Warning unit EWIII with integrated power failure signal and large lamps that light up in green or red.

ys the best solution

Advantages that pay off!

All FEZER products correspond to the national and international safety regulations and are supplied with CE markings. This guarantees a constantly high quality standard and offers you other advantages which pay off in no time:

- Safe, gentle and quick handling
- No damages to the work pieces
- Simple handling that requires just 1 operator
- High operational safety by highest safety technology
- Low operation costs due to robust and high-grade quality
- Two years of warranty and right of return for goods delivered for tests
- Complete solutions with chain hoists, crane system and installation

B&C ENGINEERING
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The programme without g

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aps

| VacuPowerlift

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Gripping and lifting all in one. The VacuPowerlift is the all-rounder among the vacuum lifters with a capacity of up to 150 kg.

Tube lifter

| VacuBoy, VacuGiant, VacuCoil

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Transport, swivelling, turning over – the lifter series for the transport of dense, platelike materials up to several tons` weight.

Steel, plastic, paper

| VacuPoro, VacuWood

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The lifter series for the transport and swivelling of porous materials or wooden planks and gluelam beams, even with more than 20 meter`s length.

Wood

| StarTrack, LiftFix

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Wall and column slewing jibs up to 6 meters of jib length and crane systems with rigid guiding systems for accurate handling.

Cranes

| VacuStand

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Endless rotation, swivelling, and turning over. The ideal solution when all sides on a work piece have to be worked on.

Working Stand



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| Tube lifter for universal solutions

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VPL 100-230 for loads up to 150 kg

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Accessories, Options and Technical Data

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Application examples

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VacuPowerlift

When asking for the perfect kind of handling there is a simple answer: *VacuPowerlift* – the intelligent, comfortable and user-friendly solution for almost any task. With the tube lifter you kill two birds with one stone. Because only one medium is required for gripping and lifting – vacuum.



Tube lifter for universal solutions

The *VacuPowerlift* sticks to a given word. That holds true not only for the wide range of parts that can be safely lifted by it...

Safety

The *VacuPowerlift* is a closed system and does not require additional safety features, like electric safety units etc. The relation of suction area/lifting tube guarantees that the loads are held in place by the suction foot. Even should a power failure occur, in that case a non-return valve makes sure that the load is lowered to the floor in a safe and controlled way before the suction foot disengages.

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VacuPowerlift – The I



VPL with special gripper

Comfortable and quiet

Our highest goal when developing our lifter series was the well-being of the employee at his workplace. The simple and ergonomic alignment of the operation elements and the low-noise blowers ensure that even lifting heavy weights can be fun!



Safe and rational handling of sacks of all kinds



Handling of raw and laminated chipboards



VacuPowerlift for production of solar plates



Rational and effective feeding of CNC machines



Ergonomic re-positioning of cardboard boxes

ong-winded all-rounder

Flexible

The clever modular system allows that the VacuPowerlift is easily adaptable to different requirements. There is a large variety of suction feet for all kinds of work pieces. A wide range of accessories and options like extensions to the control housing, turning and swivel features and special applications provide almost limitless application areas.



VPL with vertical suction foot for box handling



VPL in logistics



Easy handling of drums

Asked for in many sectors

With its large range of models the *VacuPowerlift* is the sought-after all-rounder for loads up to 150 kg in many industries, such as:

- Packaging industry
- Woodworking industry
- Agriculture industry
- Plastic, glass and windows manufacturing
- Stone industry
- Food industry
- Electronics (e.g. TV sets)
- Drums, crates, containers
- and many more!

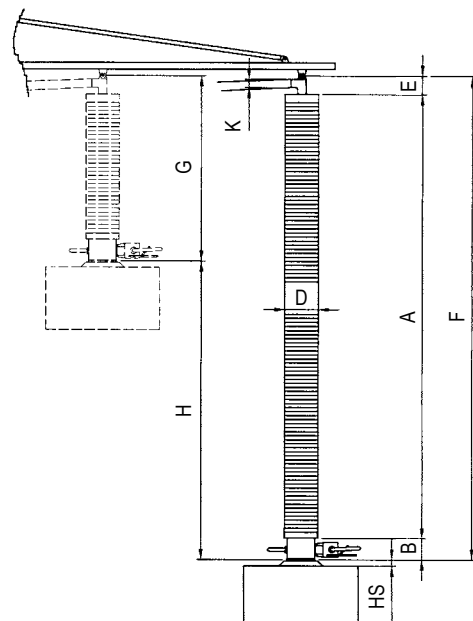
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VPL 100-140



VPL for steel plate handling

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VPL with double tube while handling plaster plates



VPL while handling solar cells



Handling of large raw chipboards

Tube lifter

VPL 160-230

		VPL 100	VPL 120	VPL 140	VPL 160	VPL 180	VPL 200	VPL 230
Carrying capacity on								
Dense material		30 kg	40 kg	50 kg	65 kg	85 kg	110 kg	140 kg
Porous material		25 kg	35 kg	45 kg	60 kg	80 kg	100 kg	120 kg
Blower/pump for								
Dense material		T 4.40	SKE 2,2	SKE 2,2	SKE 2,2	SKE 3,0	SKE 3,0	SKE 3,0
Porous material		SKE 2,2	SKE 3,0	SKE 3,0	SKE 3,0	SKE 4,0	SKE 4,0	SKE 4,0
Technical data								
Stroke speed		50 m/min	50 m/min	50 m/min	50 m/min	50 m/min	50 m/min	50 m/min
Lifting tube Ø	D	100 mm	120 mm	140 mm	160 mm	180 mm	200 mm	230 mm
Total height	F	2750 mm	2750 mm	2750 mm	2750 mm	2750 mm	2750 mm	2750 mm
Compressed height	G	750 mm	750 mm	750 mm	770 mm	770 mm	800 mm	800 mm
Stroke length of tube	H	1750 mm	1750 mm	1750 mm	1730 mm	1730 mm	1700 mm	1700 mm
Total length of tube	A	2500 mm	2500 mm	2500 mm	2500 mm	2500 mm	2500 mm	2500 mm
Height of suspension	E	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm
Height of suction head	B	150 mm	150 mm	150 mm	180 mm	180 mm	180 mm	180 mm
Connection	K	52 mm	52 mm	52 mm	52 mm	52 mm	52 mm	52 mm
Height of suction foot	HS	depending on suction foot used (min. 35 mm up to 160 mm)						
Noise level		< 75 dB(A)	< 75 dB(A)	< 75 dB(A)	< 75 dB(A)	< 75 dB(A)	< 75 dB(A)	< 75 dB(A)

Technical Data of
the VacuPowerlift

Optional equipment

The *VacuPowerlift* is very adaptable and offers a wide range of accessories:

- Extension and joints for the control handle
- Endless rotation feature
- 90° joint
- Silencer box for the blower
- Remote control for the blower
- Quick-change coupling for the suction feet
- Stainless steel design for the food and pharmaceutical industry
- Pneumatic feed for swivelling or pneumatic grippers
- Solutions complete with crane systems



Pneumatic swivelling for concrete stones



Pneumatic swivelling for solar cells



Handle extension with joint



Handle extension with joint/rigid combination

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Optional equipment



Quick-change coupling



Silencer box for blower



Remote control for blower



Stainless steel design

Suction feet	VPL	100	120	140	160	180	200	230
Round	Applications							
SFE 200 V	smooth surfaces	✓	✓	-	-	-	-	-
SFE 250 V	drums, containers	-	-	✓	✓	-	-	-
SFE 320 V	stone slabs	-	-	-	-	✓	✓	-
SFE 360 V	TV sets	-	-	-	-	-	-	✓
Bellows type	Applications							
SFE 200 FBS	round or curved surfaces	✓	✓	✓	✓	-	-	-
SFE 250 FBS	drums, containers	-	-	✓	✓	-	-	-
SFE 250 FBS	TV sets	✓	✓	✓	✓	-	-	-
Rectangular	Applications							
SFE 85x200	smooth surfaces	✓	-	-	-	-	-	-
SFE 120x320	taped boxes	-	✓	✓	-	-	-	-
SFE 140x320	small plates	-	-	-	✓	-	-	-
SFE 200x320	furniture parts	-	-	-	-	✓	-	-
For sacks	Applications							
SFS 190x290K	filled paper sacks	✓	✓	✓	-	-	-	-
SFS 230x380K	filled plastic sacks	✓	✓	✓	✓	✓	-	-
SFS 180x370M	India rubber bales	✓	✓	✓	✓	✓	-	-
Double	Applications							
SFD 85x200	stapled or taped boxes	✓	✓	-	-	-	-	-
SFD 120x320	stapled or taped boxes	-	-	✓	✓	-	-	-
SFD 140x380	wooden and plastic plates	-	-	-	-	✓	✓	-
SFD 200x320	wooden and plastic plates	-	-	-	-	-	-	✓
Fourfold	Applications							
SFV 115 FBS	large wooden, plastic plates	✓	✓	✓	-	-	-	-
SFV 85x200	large wooden, plastic plates	✓	✓	✓	-	-	-	-
SFV 120x320	door elements	✓	✓	✓	✓	✓	-	-
SFV 120x320	large boxes	-	-	-	-	-	✓	✓
Special	Applications							
Pallet lifter	transport of pallets	✓	✓	✓	✓	✓	✓	✓
Mechan. Gripper	containers, wooden bars	✓	✓	✓	✓	✓	✓	✓
Pneumatic gripper	e.g. clamping fixture	✓	✓	✓	✓	✓	✓	✓
Special gripper	special applications	✓	✓	✓	✓	✓	✓	✓

There are myriad suction feet for the various sizes of the VacuPowerlift. They can be mounted on all lifting units and guarantee a safe operation. For the food industry most suction feet are also available in all stainless steel.

Additionally we offer custom-made products for special applications and mechanical grippers for transporting crates and pallets.



Single suction foot



Sack suction foot



Double suction foot



Fourfold suction foot



VPL for handling plates

Tube lifter for universal applications

The tube lifter in his strong suit. Let it convince you about its practical uses.



VPL for the automotive industry

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VacuPowerlift – Appl



VPL for glass handling



VPL in logistics



VPL for drum handling



VPL with mechanical gripper for gluelam beams



VPL with mechanical gripper for plastic boxes

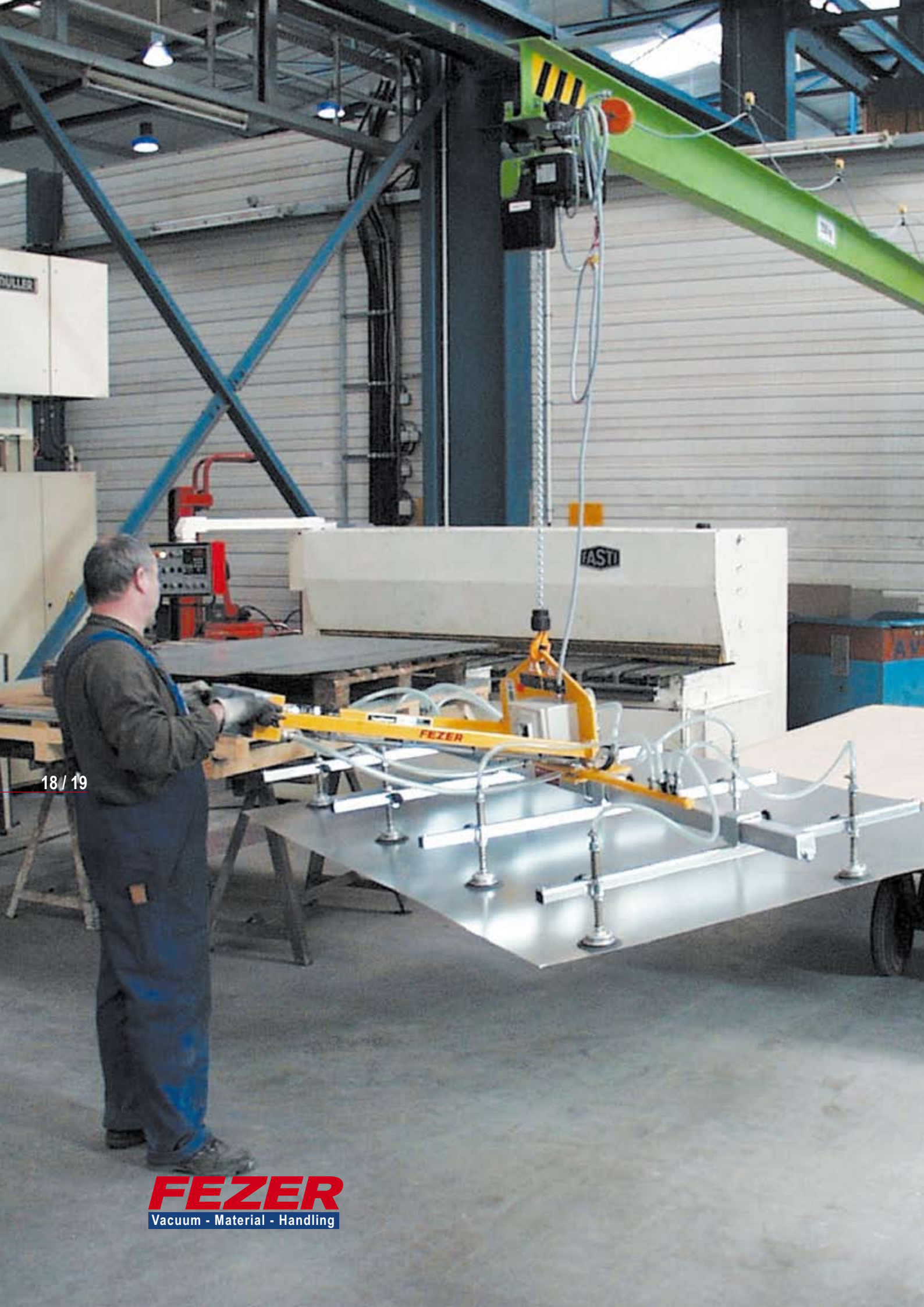


VPL for solar cell production

ication Examples



VPL for chipboard handling



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VacuBoy

Lifters for the handling of plate-like materials with dense, smooth or structured surfaces up to a weight of 2 tons.

Safe, gentle, fast

The *VacuBoy* is the ideal aid for feeding metal forming machines, stockpiling and the removal of all dense, plate-shaped materials. The unique modular system enables the *VacuBoy* to adjust to almost any requirement and guarantees an absolutely safe and simple handling. All lifters are equipped with a hand-slide valve and acoustic warning unit with power shortage indicator. Additionally there is a variety of upgrade options.

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VacuBoy – horizontal



VacuBoy handling laminated chipboards



VacuBoy for metal plates



Handling of large sheet metal boards



VacuBoy feeding a laser cutting machine



Handling of cut laser parts



VacuBoy in combination with a slewing jib

transport up to 2 t



Handling of steel plates



Handling of aluminium plates



Get a grip

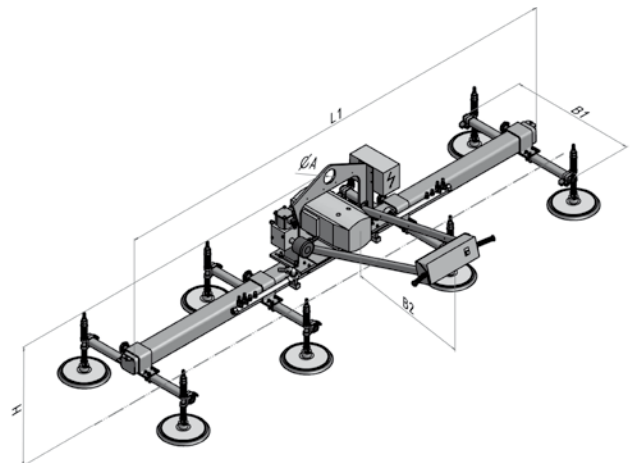
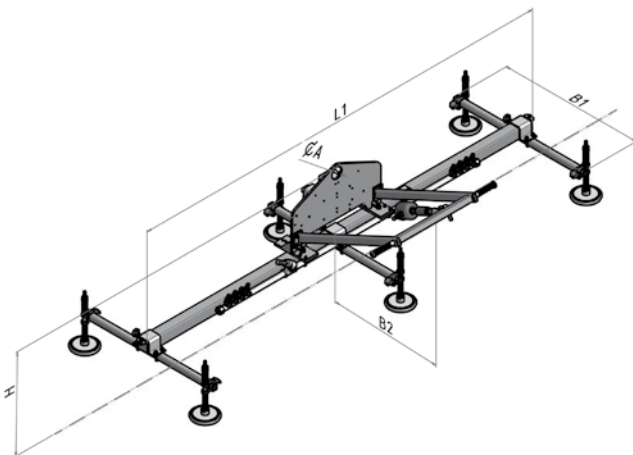
The *VacuBoy* moves plates of various materials and substances. Robust plates or sensitive panes – the *VacuBoy* takes it on. Absolutely safe and gentle.



- Aluminium and steel plates
- Scaled and rusty plates
- Chequered and studded sheets
- Plastic plates
- Glass plates and window panes
- Stone slabs
- Laminated chipboards
- Sandwich elements
- and many more!

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VacuBoy – horizontal



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VacuBoy handling steel sheets



VacuBoy during the assembly of car roofs



VacuBoy for horizontal handling of wrapped wooden planks



VacuBoy for metal sheet handling

transport up to 2 t

Carrying capacity (kg)	Type	Work piece dimensions		Pump	Number of suction plates	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)	Own weight (kg)
		max. (mm)	min. (mm)								
200	VB 80	2.000 x 1.000	600 x 400	T 4.4	4, 6, 8	1.800	800	650	470	80	45 - 55
400	VB 80	2.000 x 1.000	600 x 400	T 4.4	4, 6, 8	1.800	800	650	470	80	50 - 70
600	VB 80	3.000 x 2.000	1.000 x 600	T 4.8	4, 6, 8	2.400	800	650	470	80	60 - 80
800	VB 80	3.000 x 2.000	1.000 x 600	T 4.8	4, 6, 8, 10	2.400	800	650	570	80	80 - 100
1.000	VB 100	3.000 x 2.000	1.000 x 600	T 4.16	6, 8, 10, 12	2.400	800	650	570	80	120 - 180
1.200	VB 100	4.000 x 2.000	1.000 x 600	T 4.16	6, 8, 10, 12	2.400	1.200	900	570	80	180 - 220
1.400	VB 100	4.000 x 2.000	1.000 x 600	T 4.16	8, 10, 12, 14	2.400	1.200	900	570	80	200 - 240
1.600	VB 100	4.000 x 2.000	1.000 x 600	T 4.16	8, 10, 12, 14	3.000	1.200	900	570	80	240 - 300
1.800	VB 100	4.000 x 2.000	1.000 x 600	T 4.16	10, 12, 14, 16	3.000	1.200	900	570	80	280 - 320
2.000	VB 100	4.000 x 2.000	1.000 x 600	T 4.16	10, 12, 14, 16	3.000	1.200	900	570	80	300 - 360

The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.

The indicated work piece dimensions are theoretical only and depend on the thickness of the material.

Nothing's easier than swivelling!

For the loading of upright machines or for vertical storage of products the *VacuBoy* is also available with a swivel mechanism. By means of electrical cylinders or gear motors engaged loads can be swivelled effortlessly and stopped in any position.

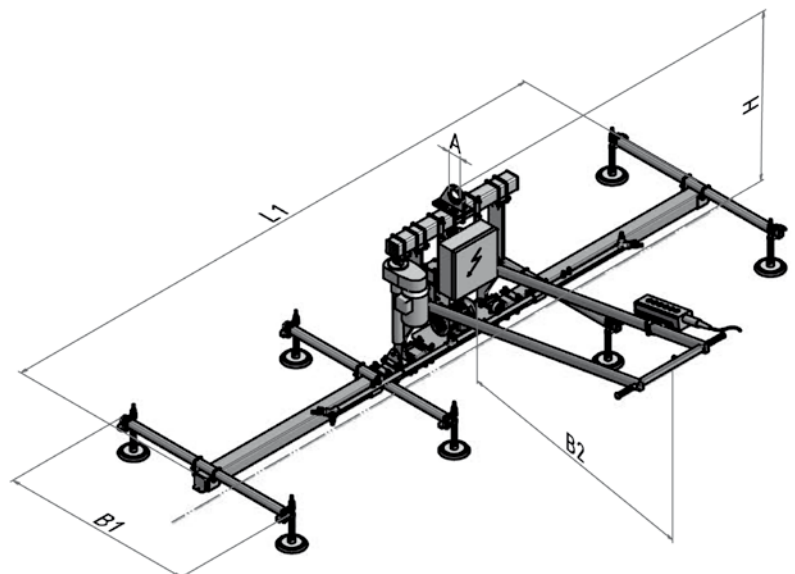
This is controlled by push-buttons which are mounted user-friendly on the manipulating handle. This series contains all the required safety features and can be adjusted to individual needs at any time.

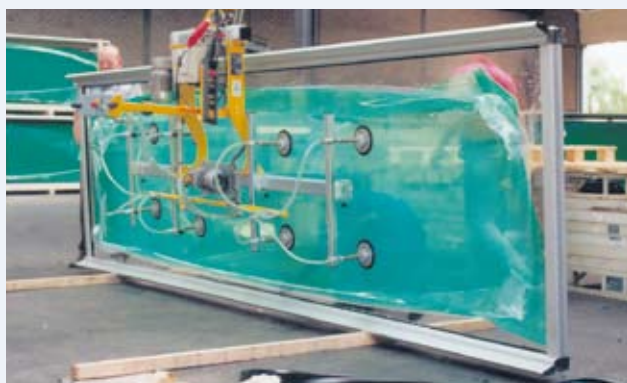


VacuBoy-90 handling wrapped sandwich elements

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VacuBoy – Swivelling





VacuBoy-90 handling window elements



VacuBoy-90 handling heavy glass panes



VacuBoy-90 operating in front of a saw



VacuBoy-90 handling thin steel plates



Vertical handling of cable reels

up to 1 t

Carrying capacity (kg)	Type	Work piece dimensions		Pump	Number of suction plates	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)	Own weight (kg)
		max. (mm)	min. (mm)								
100/50	VB 80-90	2.500 x 1.250	1.000 x 400	T 4.4	4, 8	1.800	800	650	500	80	60 - 70
200/100	VB 80-90	4.000 x 2.000	1.000 x 400	T 4.4	4, 8	1.800	800	650	1.050	80	70 - 80
400/200	VB 80-90	4.000 x 2.000	1.000 x 400	T 4.4	4, 8	1.800	800	650	1.050	80	75 - 90
600/300	VB 80-90	4.000 x 2.000	1.000 x 400	T 4.8	4, 8	2.400	800	650	1.050	80	80 - 110
800/400	VB 100-90	4.000 x 2.000	1.000 x 400	T 4.8	4, 8, 12	2.400	800	650	1.150	80	300 - 340
1.000/500	VB 100-90	4.000 x 2.000	1.000 x 600	T 4.16	4, 8, 12	2.400	800	650	1.150	80	320 - 360
1.200/600	VB 100-90	6.000 x 2.500	1.000 x 600	T 4.16	8, 12, 16	2.400	1.200	900	1.150	80	340 - 380
1.400/700	VB 100-90	6.000 x 2.500	1.000 x 600	T 4.16	8, 12, 16	2.400	1.200	900	1.150	80	360 - 400
1.600/800	VB 100-90	6.000 x 2.500	1.000 x 600	T 4.16	8, 12, 16	3.000	1.200	900	1.150	80	460 - 500
1.800/900	VB 100-90	6.000 x 2.500	1.000 x 600	T 4.16	8, 12, 16	3.000	1.200	900	1.150	80	480 - 520
2.000/1.000	VB 100-90	6.000 x 2.500	1.000 x 600	T 4.16	8, 12, 16	3.000	1.200	900	1.150	80	500 - 540

The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.

The indicated work piece dimensions are theoretical only and depend on the thickness of the material.

Just flip it over!

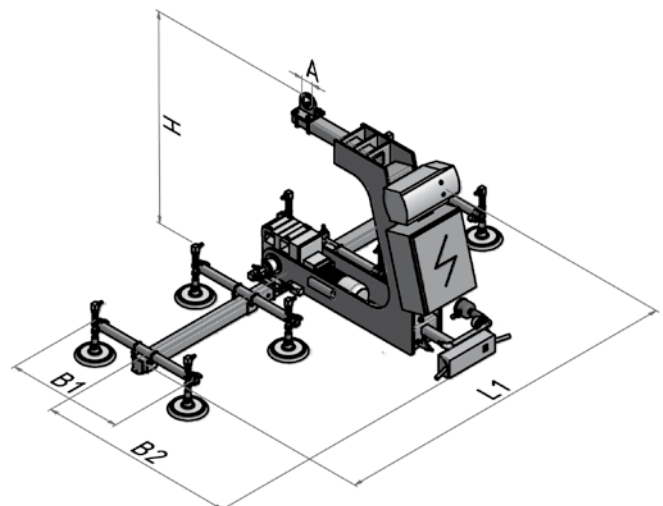
Many operations require that the work piece is being turned over. Especially when both sides have to be worked on or for visual checks on sensitive materials. For this the *VacuBoy-180* is the ideal partner. A centrally located gear motor swivels the load steplessly. The end positions are controlled by limit switches and the swivel process is stopped automatically.



VacuBoy-180 for turning over sandwich plates

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VacuBoy – turning ov





Handling of frame elements



VacuBoy-180 with special attachment for the turning over of steel sheets



VacuBoy-180 during the act of turning over



VacuBoy-180 in end position

er up to 500 kg

Carrying capacity (kg)	Type	Work piece dimensions		Pump	Number of suction plates	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)	Own weight (kg)
		max. (mm)	min. (mm)								
200/100	VB 80-180	4.000 x 2.000	600 x 400	T 4.4	4, 8	1.800	800	1.200	ca. 1.400	80	200 - 250
400/200	VB 80-180	4.000 x 2.000	600 x 400	T 4.4	4, 8	1.800	800	1.200	ca. 1.400	80	230 - 260
600/300	VB 80-180	4.000 x 2.000	1.000 x 600	T 4.8	4, 8	2.400	800	1.200	ca. 1.400	80	250 - 280
800/400	VB 100-180	4.000 x 2.000	1.000 x 600	T 4.8	4, 8, 12	2.400	800	1.200	ca. 1.600	80	330 - 360
1.000/500	VB 100-180	4.000 x 2.000	1.000 x 600	T 4.16	8, 12, 16	2.400	800	1.200	ca. 1.600	80	350 - 380

The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.

The indicated work piece dimensions are theoretical only and depend on the thickness of the material.

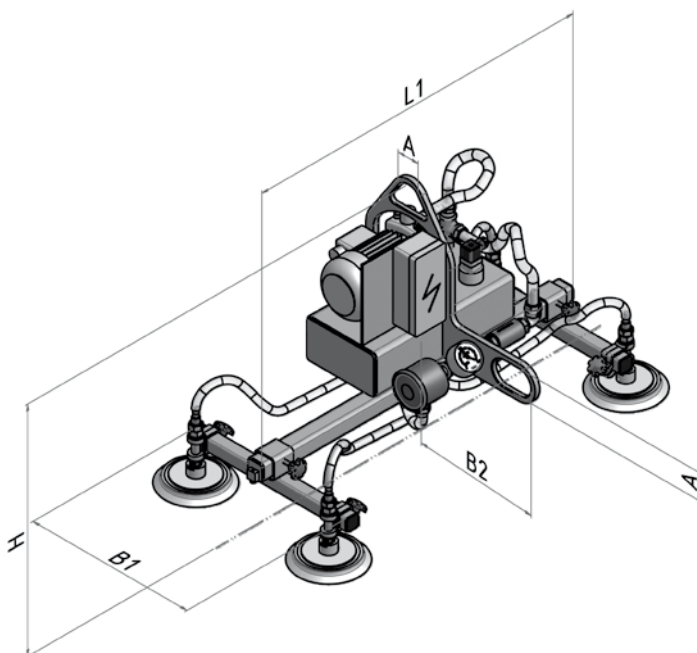
The lightweight with the high capacity!

The *VacuBoy Mini* is especially suitable for handling stable loads like barrels, drums, stone slabs and glass elements. By reallocating the crane hook in one of the two suspension eyes loads cannot only be transported horizontally but also vertically. The device can be equipped with either a single suction plate or with a beam with several mounted suction plates. Additionally, the *VacuBoy Mini* is available with a quick-change coupling. This allows to use different assemblies for different applications.



VacuBoy Mini handling drums

VacuBoy Mini – light





VacuBoy Mini with quick-change coupling



VacuBoy Mini handling sheet metal



Handling of window elements



VacuBoy Mini with special assembly for handling of drums



VacuBoy Mini handling steel plates

weight up to 300 kg

Carrying capacity (kg)	Type	Work piece dimensions		Pump	Number of suction plates	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)	Own weight (kg)
		max. (mm)	min. (mm)								
100/50	VBM-1	2.500 x 1.250	400 x 400	T 4.4	1	220	220	270	450	60	20
100/50	VBM-4	2.500 x 1.250	1.000 x 400	T 4.4	4	1.200	400	270	550	60	30
150/75	VBM-4	2.500 x 1.250	1.000 x 400	T 4.4	4	1.200	400	270	550	60	30
200/100	VBM-1	2.500 x 1.250	400 x 400	T 4.4	1	280	280	270	450	60	25
200/100	VBM-4	2.500 x 1.250	1.000 x 400	T 4.4	4	1.200	400	270	550	60	35
300/150	VBM-1	2.500 x 1.250	600 x 600	T 4.4	1	460	250	270	550	60	25
300/150	VBM-4	2.500 x 1.250	1.000 x 400	T 4.4	4	1.200	400	270	550	60	35

The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.

The indicated work piece dimensions are theoretical only and depend on the thickness of the material.



Vario handling sheet metal plates



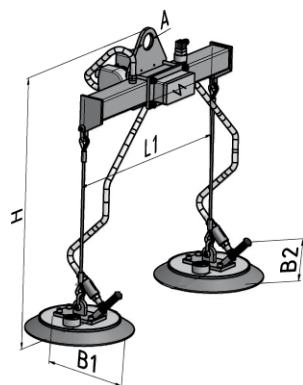
Vario handling glass elements



Vario handling façade elements

The variable one up to 500 kg

With the *VacuBoy Vario* you can lift loads horizontally and vertically; you can even “swivel” them. Each suction plate can be switched on and off individually. This makes this lifter series very flexible for different tasks.



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VacuBoy Vario

Carrying capacity (kg)	Type	Work piece dimensions		Pump	Number of suction plates	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)	Own weight (kg)
100/50	VBV-2	2.500 x 1.250	400 x 400	T 4.4	2	800	125	150	800	60	40
200/100	VBV-2	3.000 x 2.000	600 x 600	T 4.4	2	800	220	150	800	60	50
300/150	VBV-2	3.000 x 2.000	600 x 600	T 4.4	2	800	280	150	800	60	55
400/200	VBV-2	3.000 x 2.000	800 x 800	T 4.4	2	800	340	150	800	60	60
500/250	VBV-2	3.000 x 2.000	800 x 800	T 4.4	2	800	400	150	800	60	65

The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.

The indicated work piece dimensions are theoretical only and depend on the thickness of the material.



VacuBoy Tube handling aluminium profiles



VacuBoy Tube with electric turn over for aluminium profiles

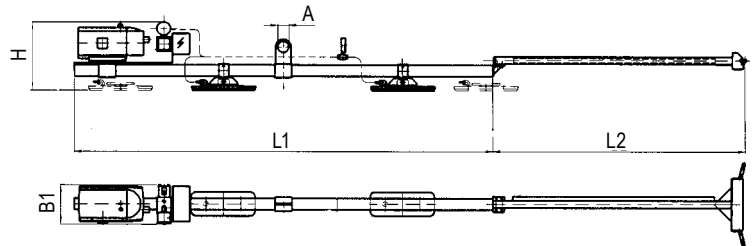


VacuBoy Tube engaging foil rolls

For tubes and profiles up to 800 kg

The *VacuBoy Tube* offers also all advantages and the many accessories of the *VacuBoy* family. It is especially suitable for:

- Horizontal transport of profiles and round work pieces
- Work pieces with widths of 50mm or wider and lengths of 500mm or longer
- Turning over of long work pieces (in special design)



Steel, plastic, paper

VacuBoy Tube

Carrying capacity (kg)	Type	Work piece dimensions		Pump	Number of suction plates	L1 (mm)	L2 (mm)	B1 (mm)	H (mm)	A (mm)	Own weight (kg)
		max. (mm)	min. (mm)								
100	VB 80	100 - 200	1.000 - 3.000	T 4.4	2	2.400	1.800	250	480	80	120 - 140
200	VB 80	150 - 250	1.500 - 3.000	T 4.4	3	2.400	1.800	250	480	80	140 - 160
300	VB 80	200 - 400	1.500 - 3.000	T 4.4	4	3.000	1.800	300	530	80	150 - 170
400	VB 80	300 - 600	2.000 - 6.000	T 4.4	4	3.000	1.800	300	530	80	160 - 180
500	VB 80	500 - 1.000	2.000 - 6.000	T 4.4	4	3.000	1.800	300	530	80	170 - 190

The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.

The indicated work piece dimensions are theoretical only and depend on the thickness of the material.



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FEZER
Vacuum - Material - Handling



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VacuGiant for horizontal transport up to 40 t	Page 34 / 35
VacuGiant for swivelling up to 15 t	Page 36 / 37
VacuGiant – application examples	Page 38 / 39

VacuGiant

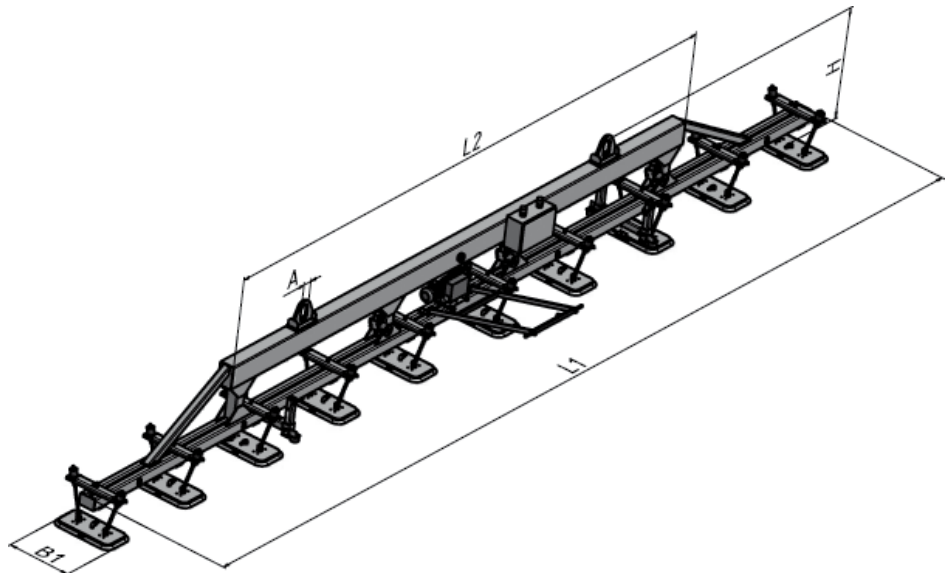
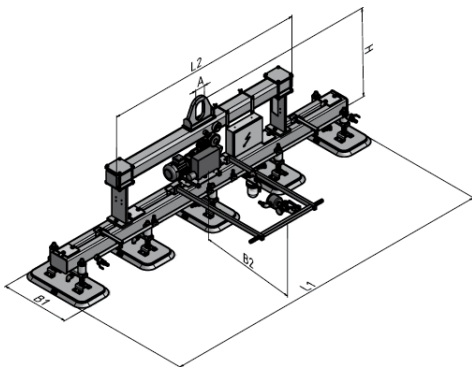
Heavy duty lifters for the handling of plate-shaped materials with dense, even or structured surfaces up to a weight of 50 tons and more.

The heavyweight champion

Even sheets with lengths of 20 meters and weights of several tons are child's play for the *VacuGiant*. It shakes the field of heavy duty. The simple, but very robust design and the intelligent safety features of these "giants" guarantee a reliable and absolutely safe handling. The suction plate suspension is available with suspension bolts or chains. The vacuum control is either manual by hand slide valve or electrical by solenoid valves with push-buttons integrated in the manipulating handle or in a separate panel. The vacuum is supervised by a combination of acoustic and optical warning units with integrated power outage indicator.

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VacuGiant – horizont





Handling of thick aluminium plates



VacuGiant handling steel plates



VacuGiant with generator for outdoor use



VacuGiant in special design with integrated rotation motors



VacuGiant with generator for connection to a forklift truck



VacuGiant for handling of aluminium blocks

al transport up to 40 t

Carrying capacity (kg)	Type	Work piece dimensions		Pump	Number of suction plates	L1 (mm)	L2 (mm)	B1 (mm)	H (mm)	A (mm)	Own weight (t)
		max. (mm)	min. (mm)								
3.000	VG-A/K	6.000 x 3.000	2.000 x 1.000	016.1	2, 4, 6	3.000	1.000	850 - 1.600	1.200	100	0,4 - 0,5
4.000	VG-A/K	6.000 x 3.000	2.000 x 1.000	025.1	3, 4, 6, 8	3.000	1.500	850 - 1.600	1.200	100	0,5 - 0,6
5.000	VG-A/K	8.000 x 3.000	2.000 x 1.000	025.1	4, 6, 8, 10	6.000	3.000	850 - 1.600	1.200	100	0,7 - 0,8
6.000	VG-R	8.000 x 3.000	2.000 x 1.000	040.1	4	6.000	3.000	850 - 1.600	1.200	2 x 200	0,8 - 1,0
7.500	VG-R	10.000 x 3.000	2.000 x 1.000	063.1	6	8.000	4.000	850 - 1.600	1.600	2 x 200	1,2 - 1,6
10.000	VG-R	10.000 x 3.000	4.000 x 1.000	0100.1	8	8.000	5.000	850 - 1.600	1.600	2 x 200	1,6 - 2,0
12.500	VG-R	12.000 x 3.000	4.000 x 1.000	0100.1	10	10.000	6.000	850 - 1.600	1.600	2 x 200	2,0 - 2,6
15.000	VG-R	12.000 x 3.000	4.000 x 1.000	0100.1	12	10.000	6.000	850 - 1.600	1.600	2 x 200	2,6 - 3,2
17.500	VG-R	16.000 x 3.000	4.000 x 1.000	0160.1	14	14.000	10.000	850 - 1.600	2.000	2 x 200	3,2 - 3,8
20.000	VG-R	16.000 x 3.000	4.000 x 1.000	0160.1	16	14.000	10.000	850 - 1.600	2.000	2 x 200	3,8 - 4,4

VG-A/K = VacuGiant Allrounder and VacuGiant Kompact with suction plates suspended from bolts, VG-R = VacuGiant Robust with suction plates suspended from chains.
 The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.
 The indicated work piece dimensions are theoretical only and depend on the thickness of the material.

Asked for if heavy loads must be swivelled!

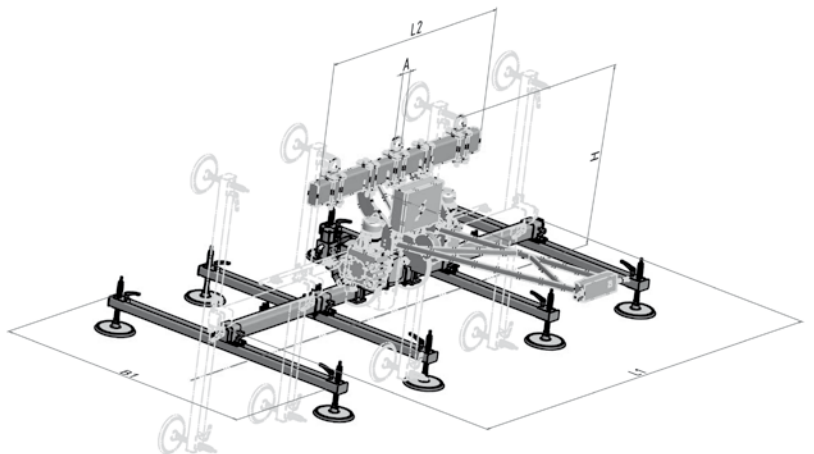
The *VacuGiants* with swivel mechanism bring loads to a stop. No matter, if they have to be put in or out of storage or if they are required in vertical position.

With the robust electrical or hydraulic swivel drives the *VacuGiants* can effortlessly swivel and gently transport loads up to 15 tons. An oversized safety tank, which is integrated in the construction of the lifters, guarantees an adequate and comforting safety when transporting these heavy loads.

Combined with our know-how these lifters are always made for individual applications which guarantees a rational and time-saving handling.

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VacuGiant – swivelling



VacuGiant while handling chequer plates vertically



VacuGiant handling sandwich elements



VacuGiant for the upright storage of plates in a shipyard



Handling of bulkheads for aircrafts



VacuGiant with swivel feature in both directions and counter weight for the precise 90° positioning of the plates



VacuGiant with swivel feature and extendable main beam



Handling of stainless steel circuit boards

Steel, plastic, paper

g up to 15 t

Carrying capacity (kg)	Type	Work piece dimensions		Pump	Number of suction plates	L1 (mm)	L2 (mm)	B1 (mm)	H (mm)	A (mm)	Own weight (t)
		max. (mm)	min. (mm)								
1.500	VG-A/K-90	6.000 x 3.000	2.000 x 1.000	016.1	4 - 10	4.000	2.000	850 - 1.600	ca. 2.250	100	0,9 - 1,1
2.000	VG-A/K-90	6.000 x 3.000	2.000 x 1.000	025.1	6 - 12	4.000	2.000	850 - 1.600	ca. 2.250	100	1,2 - 1,4
2.500	VG-A/K-90	8.000 x 3.000	2.000 x 1.000	025.1	8 - 14	6.000	3.000	850 - 1.600	ca. 2.250	100	1,4 - 1,8
3.000	VG-A/K-90	8.000 x 3.000	2.000 x 1.000	040.1	10 - 16	6.000	3.000	850 - 1.600	ca. 2.500	2 x 200	1,8 - 2,4
4.000	VG-A/K-90	10.000 x 3.000	2.000 x 1.000	063.1	12 - 18	8.000	4.000	850 - 1.600	ca. 2.500	2 x 200	2,6 - 3,0
5.000	VG-A/K-90	10.000 x 3.000	4.000 x 1.000	0100.1	16 - 22	8.000	5.000	850 - 1.600	ca. 2.500	2 x 200	3,2 - 3,6
6.000	VG-A/K-90	12.000 x 3.000	4.000 x 1.000	0100.1	20 - 26	10.000	6.000	850 - 1.600	ca. 2.500	2 x 200	3,8 - 4,2
8.000	VG-A/K-90	12.000 x 3.000	4.000 x 1.000	0100.1	26 - 32	12.000	8.000	850 - 1.600	ca. 2.500	2 x 200	4,4 - 5,0
10.000	VG-A/K-90	16.000 x 3.000	4.000 x 1.000	0160.1	32 - 38	14.000	10.000	850 - 1.600	ca. 2.500	2 x 200	5,2 - 5,6

The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.

The indicated work piece dimensions are theoretical only and depend on the thickness of the material.

High performance for a wide application area

- In roller-mills for scaled and rusty plates
- In ship-yards for the storage of steel plates
- In the aerospace industry for the handling of sensitive aluminum plates
- Outdoor use in wet and cold climates
- and many more!



VacuGiant as "two-in-one" solution. Handling of steel plates and rolled tubes with a mechanical gripper solution

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VacuGiant – Applicat



VacuGiant with synchronized tandem operation



VacuGiant with four-point suspension and automatic crane



VacuGiant for the automotive industry



Handling of steel plates



VacuGiant with electric extension for feeding plates



VacuGiant for swivelling steel plates



Outdoor use

Steel, plastic, paper

ion examples



VacuGiant handling parts for airplane wings



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| VacuCoil

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VacuCoil for horizontal transport up to 5 t

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VacuCoil for swivelling up to over 2 t

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Steel, plastic, paper

VacuCoil

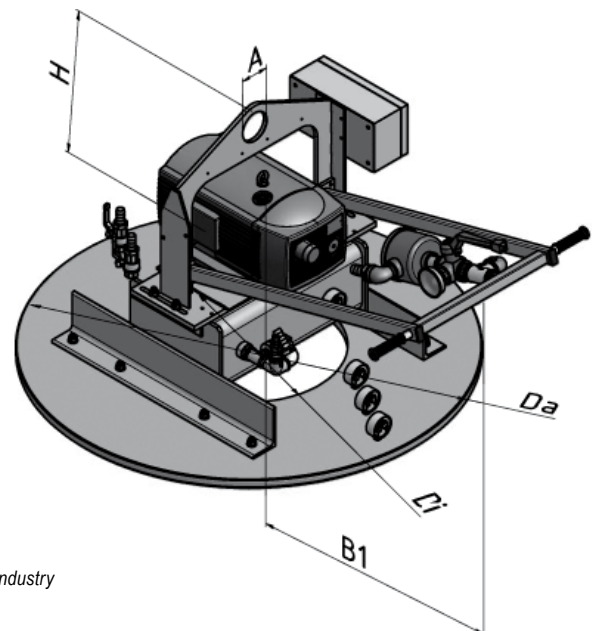
There is a solution for the handling of coils, split strips or paper roll weights of several tons – the *VacuCoil*! It guarantees an absolutely safe and reliable handling, even on slightly porous work pieces.

Work with fun all year round

The *VacuCoil* lifters were especially developed for the handling of coils, split strips and paper rolls. Even materials with coated surfaces or strapped packing strips can be transported faultlessly. Especially for re-positioning and pick-and-place applications the *VacuCoil* is available in horizontal design. Here the work pieces are engaged on their front surface. The individual design of the suction plates with several chambers allow the safe and gentle transport of work pieces with different inside and outside diameters. The safety features include a safety tank and an acoustic warning unit with power failure detector. Many options allow to design the lifter exactly for the customers's very needs.

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VacuCoil – horizontal



VacuCoil used in the paper industry



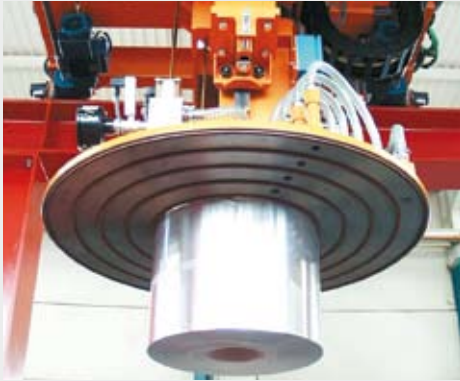
VacuCoil in automatic operation



VacuCoil with mechanical grippers



VacuCoil handling paper rolls



VacuCoil with various suction chambers in automatic operation



VacuCoil with transparent suction plate

transport up to 5 t

Carrying capacity (kg)	Type	Coil diameter		Pump	Number of suction chambers	Di (mm)	Da (mm)	B1 (mm)	H (mm)	A (mm)	Own weight (kg)
		Di (mm)	Da (mm)								
200	VC	150	min. 400	016.1	max. 2	150	400 - 1.000	600	700	100	200 - 250
400	VC	150	min. 400	016.1	max. 2	150	500 - 1.200	600	700	100	250 - 300
600	VC	150	min. 400	025.1	max. 2	150	600 - 1.400	900	700	100	300 - 350
800	VC	150	min. 400	025.1	max. 2	150	600 - 1.400	900	700	100	350 - 400
1.000	VC	150	min. 400	040.1	max. 3	150	700 - 1.600	900	1.000	100	400 - 550
1.500	VC	200	min. 500	040.1	max. 4	200	850 - 1.800	900	1.000	100	700 - 800
2.000	VC	200	min. 500	063.1	max. 6	200	1.000 - 2.000	1.250	1.000	200	800 - 1.000
3.000	VC	200	min. 500	063.1	max. 7	250	1.150 - 2.250	1.250	1.250	200	1.000 - 1.200
4.000	VC	200	min. 500	0100.1	max. 8	250	1.300 - 2.500	1.250	1.250	200	1.200 - 1.400
5.000	VC	200	min. 500	0100.1	max. 9	300	1.500 - 2.750	1.500	1.250	200	1.400 - 1.600

The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.

More room for movement

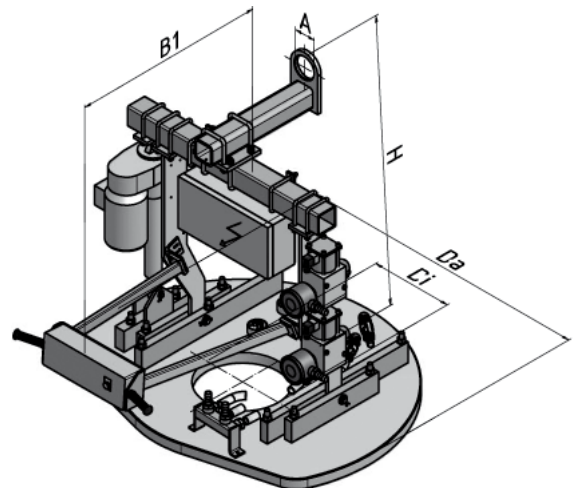
For the feeding of endlessly working punching and pressing machines the *VacuCoil-90* is equipped with a swivel feature. Previously, the coil had to be hauled by ropes and hooks from the horizontal into the vertical position, now just set down the *VacuCoil* on the coil – the rest is done by pressing a button. Gripping, swivelling and setting on a mandril. Very simple and without any damage the machine can be fed. According to our motto: safely, gently, fast!



VacuCoil used in the aluminium industry

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VacuCoil – Swivellin





VacuCoil during removal process from a mandril



Handling of strapped coils



VacuCoil with transparent suction plate for the cable industry



VacuCoil in automatic operation



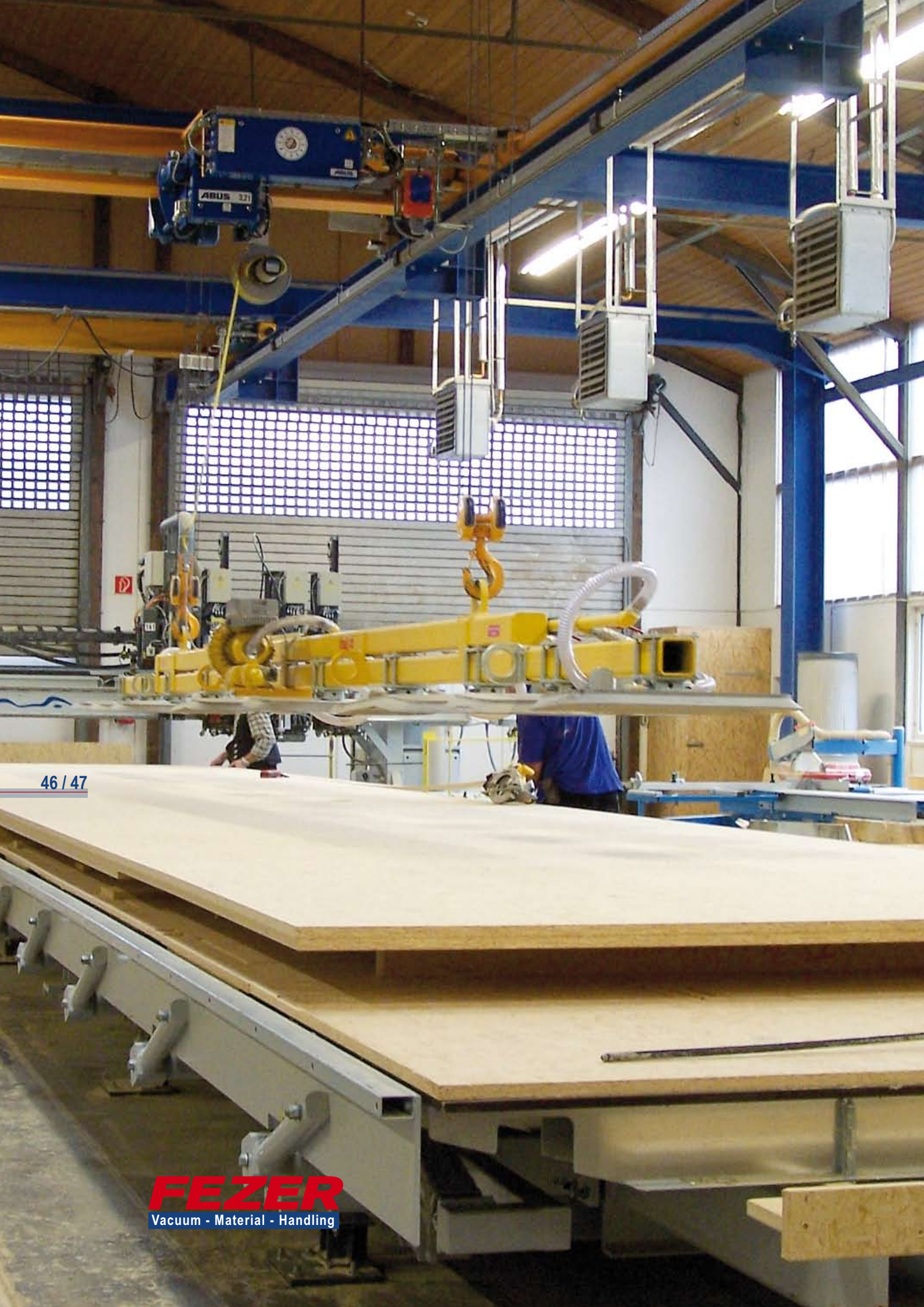
VacuCoil with flattened suction plate for the upright engagement of coils with various diameters

Steel, plastic, paper

g up to more than 2 t

Carrying capacity (kg)	Type	Coil diameter		Pump	Number of suction chambers	Di (mm)	Da (mm)	B1 (mm)	H (mm)	A (mm)	Own weight (kg)
		Di (mm)	Da (mm)								
200	VC-90	150	min. 400	016.1	max. 2	150	600 - 1.000	600	1.150	100	250 - 300
400	VC-90	150	min. 400	016.1	max. 2	150	700 - 1.200	600	1.000	100	350 - 400
600	VC-90	150	min. 400	025.1	max. 2	150	800 - 1.400	900	1.000	100	400 - 450
800	VC-90	150	min. 400	025.1	max. 3	150	900 - 1.500	900	1.100	100	550 - 600
1.000	VC-90	150	min. 400	040.1	max. 3	150	1.000 - 1.600	900	1.200	100	650 - 850
1.500	VC-90	200	min. 500	040.1	max. 4	200	1.250 - 1.800	900	1.300	100	800 - 1.000
2.000	VC-90	200	min. 500	063.1	max. 6	200	1.500 - 2.000	1.250	1.400	100	950 - 1.150

The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.



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| VacuPoro, VacuWood

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VacuPoro for porous work pieces

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VacuWood for planks and gluelam beams

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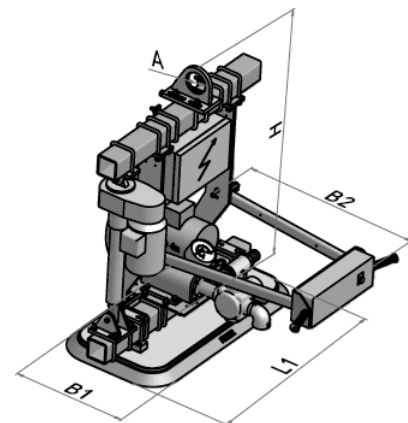
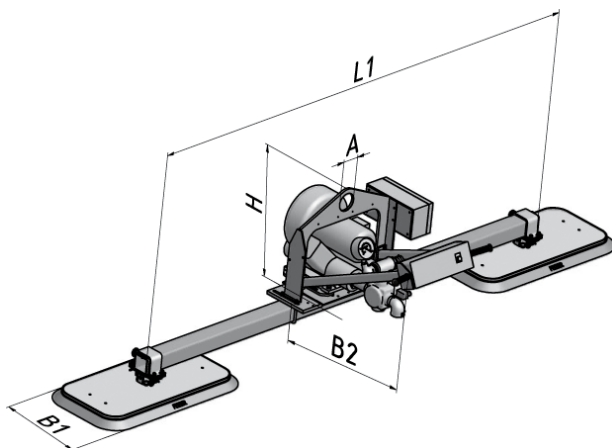
VacuPoro VacuWood

Rough-sawn planks, gluelam beams that are several meters long or porous chipboards – with this lifter series you have everything under control.

They keep it up, even if it is not dense!

The lifter series *VacuPoro* was especially developed for the handling of porous materials like chipboards, MDF or OSB plates. The powerful blower engages the materials absolutely safely. The loads can both be transported in the horizontal and vertical position, which is an advantage on upright saws or vertical stores. All lifters are equipped with an electric vacuum control and acoustic warning unit with power failure detector. There are lots of options so that the lifter can be adjusted to the required handling tasks.

VacuPoro – horizontal a





Feeding a CNC machine



Handling of raw chipboards



Handling of raw MDF plates



VacuPoro with 90° swivelling



VacuPoro in special design for the manufacturing of prefab houses



Feeding a CNC machine

nd vertical transport

Carrying capacity (kg)	Type	Work piece dimensions max. (mm)	min. (mm)	Pump	Number of suction plates	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)	Own weight (kg)
200	VP	4.100 x 2.100	900 x 500	SV 190	1	850	450	750	650	80	105 - 115
400	VP	5.600 x 2.100	2.000 x 500	SV 190	2	2.400	450	750	650	80	155 - 165
600	VP	6.500 x 2.100	2.000 x 500	SV 190	3	3.000	450	750	650	80	210 - 220
800	VP	8.000 x 3.000	3.000 x 500	SV 190	4	4.000	450	1.200	650	80	250 - 270
1.000	VP	10.000 x 3.000	3.000 x 500	SV 190	5	6.000	450	1.200	650	80	300 - 320
Carrying capacity (kg)	Type	Work piece dimensions max. (mm)	min. (mm)	Pump	Number of suction plates	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)	Own weight (kg)
200 / 100	VP-90	4.100 x 2.100	900 x 500	SV 190	1	850	450	750	1.100	80	140 - 150
400 / 200	VP-90	5.600 x 2.100	2.000 x 500	SV 190	2	2.400	450	750	1.100	80	190 - 210
600 / 300	VP-90	6.500 x 2.100	2.000 x 500	SV 190	3	3.000	450	750	1.100	80	220 - 240
800 / 400	VP-90	8.000 x 3.000	3.000 x 500	SV 190	4	4.000	450	1.200	1.100	80	440 - 460
1000 / 500	VP-90	10.000 x 3.000	3.000 x 500	SV 190	5	6.000	450	1.200	1.100	80	470 - 490

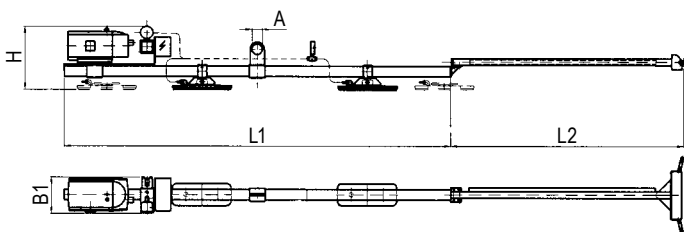
The carrying capacity refers to an operational vacuum of 20% and a dry surface, free of dirt.
The indicated work piece dimensions are theoretical only and depend on the individual condition of the material.

Feel confident with “critical” wood

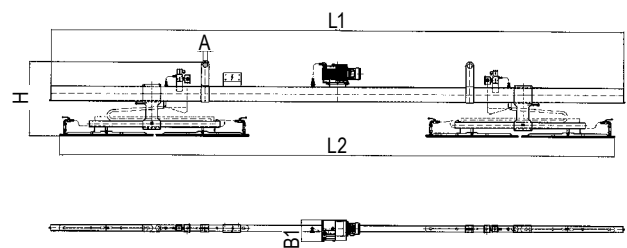
Whether rough-sawn planks or gluelam beams – there are almost no boundaries for the *VacuWood*. This lifter type is especially suitable for the handling behind saws or in stores. Due to the special suction plate suspension which adapts to the bending of the load, gluelam beams up to a length of 20 meters or more can be transported. For “extreme” wooden parts with knotholes there are special suction plates which close automatically when placed on a knothole or a crack. The standard lifters are equipped with a handslide valve, acoustic warning unit and a sufficiently large safety tank. Thus, all handling tasks can be accomplished safely, gently and fast.

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VacuWood – for planks



Drawing VWB



Drawing VWLB



Handling of planks after cutting



During commissioning



Handling of planks in storage



Handling of 24 meters long gluelam beams



Handling of gluelam beams covered in foil



Commissioning of gluelam beams

and gluelam beams

Carrying capacity (kg)	Type	Work piece dimensions		Pump	Number of suction plates	L1 (mm)	L2 (mm)	B1 (mm)	H (mm)	A (mm)	Own weight (kg)
		max. (mm)	min. (mm)								
200	VWB	6.000 x 400	1.500 x 150	T 4.25	2	3.000	1.800	260	530	80	125 - 135
400	VWB	6.000 x 400	1.500 x 200	T 4.25	2	3.000	1.800	260	530	80	130 - 140
600	VWB	6.000 x 400	1.500 x 300	T 4.25	2	3.000	1.800	260	530	80	135 - 145
Carrying capacity (kg)	Type	Work piece dimensions		Pump	Number of suction plates	L1 (mm)	L2 (mm)	B1 (mm)	H (mm)	A (mm)	Own weight (kg)
		max. (mm)	min. (mm)								
400	VWLB	6.000 x 400	2.500 x 150	T 4.25	2	4.000	2.500 - 5.000	550	750	2 x 80	220 - 230
600	VWLB	8.000 x 400	3.000 x 150	T 4.25	2	4.000	3.000 - 5.000	550	750	2 x 80	240 - 250
800	VWLB	10.000 x 400	4.000 x 150	T 4.40	4	6.000	5.200 - 7.000	260	1.100	2 x 80	800 - 900
1.000	VWLB	12.000 x 400	5.000 x 150	T 4.40	4	8.000	7.200 - 9.000	260	1.100	2 x 80	850 - 950
1.200	VWLB	14.000 x 400	6.000 x 150	T 4.40	4	10.000	9.200 - 11.200	260	1.100	2 x 80	950 - 1.000

The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.
The indicated work piece dimensions are theoretical only and depend on the condition of the material.



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StarTrack and LiftFix	Pages 52 / 53
StarTrack – Wall and track system	Pages 54 / 55
StarTrack – Suspension track system	Pages 56 / 57
LiftFix – rigid guiding system	Pages 58 / 59

StarTrack

LiftFix

Wall and column slewing jibs, suspension track system or rigidly guided handling devices – here you can find everything that rounds off the handling operation.

Smooth operator

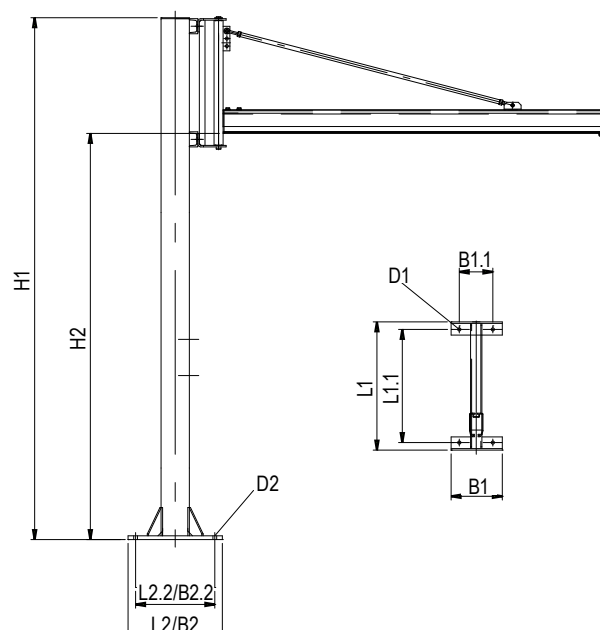
With the newly developed aluminium track system *StarTrack* the handling operation becomes child's play. The extremely smooth design with robust steel brackets and special transport trolleys makes it effortless to slide loads up to 500 kg back and forth. No matter whether the jibs are connected to a wall or a post, the various jib lengths and profiles dramatically rationalise your operations and are adaptable to your very needs. Additionally, there are designs with ceiling suspensions, telescopic posts or mobile base plates.



Column slewing jib for the handling of barrels

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StarTrack – Wall and





Slewing jib with ceiling suspension



Slewing jib for the solar industry



Slewing jib with telescopic post



Wall slewing jib for sack handling



Slewing jib with long jib arm and fourfold suspension

Column slewing jibs

Carrying capacity (kg)	Type (mm)	Jib length L (mm)	Swivel range	H1 (mm)	H2 (mm)	L1 x B1 (mm)	L1.1 x B1.1 (mm)	D1 (mm)	L2 x B2 (mm)	L2.2 x B2.2 (mm)	D2 (mm)	Own weight (kg)
125	WSK/SSK 85	2.000	180 / 270°	3.650	ca. 3.100	590 x 150	508 x 110	17	400 x 400	320 x 320	25	25 / 135
80	WSK/SSK 85	3.000	180 / 270°	3.650	ca. 3.100	590 x 150	508 x 110	17	400 x 400	320 x 320	25	30 / 140
60	WSK/SSK 85	4.000	180 / 270°	3.650	ca. 3.100	590 x 150	508 x 110	17	400 x 400	320 x 320	25	40 / 150
200	WSK/SSK 125	2.000	180 / 270°	3.715	ca. 3.050	680 x 150	600 x 110	17	500 x 500	400 x 400	25	40 / 200
125	WSK/SSK 125	3.000	180 / 270°	3.715	ca. 3.050	680 x 150	600 x 110	17	500 x 500	400 x 400	25	45 / 245
80	WSK/SSK 125	4.000	180 / 270°	3.715	ca. 3.050	680 x 150	600 x 110	17	500 x 500	400 x 400	25	55 / 255
60	WSK/SSK 125	5.000	180 / 270°	3.715	ca. 3.050	680 x 150	600 x 110	17	500 x 500	400 x 400	25	60 / 216
250	WSK/SSK 160	3.000	180 / 270°	3.715	ca. 3.050	680 x 150	600 x 110	17	500 x 500	400 x 400	25	75 / 235
150	WSK/SSK 160	4.000	180 / 270°	3.715	ca. 3.050	680 x 150	600 x 110	17	500 x 500	400 x 400	25	85 / 245
100	WSK/SSK 160	5.000	180 / 270°	3.715	ca. 3.050	680 x 150	600 x 110	17	500 x 500	400 x 400	25	100 / 260
80	WSK/SSK 160	6.000	180 / 270°	3.715	ca. 3.050	680 x 150	600 x 110	17	500 x 500	400 x 400	25	110 / 270

Also perfect for long distances

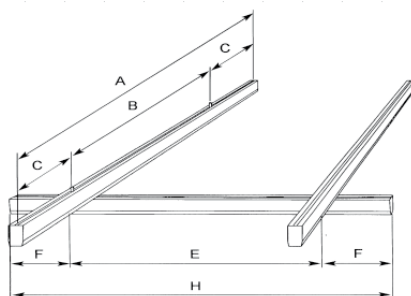
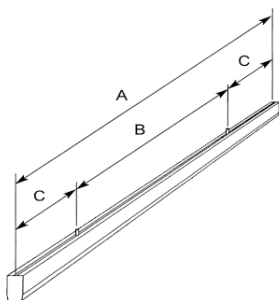
Working lengths of 30 meters or widths of 8 meters – the *StarTrack* system covers everything. And this in a smooth and precise way. The aluminium profiles as single rail, single or double track system can be combined at will. Standardised, heavy-duty connection elements guarantee a safe and efficient handling for loads up to 600 kg.



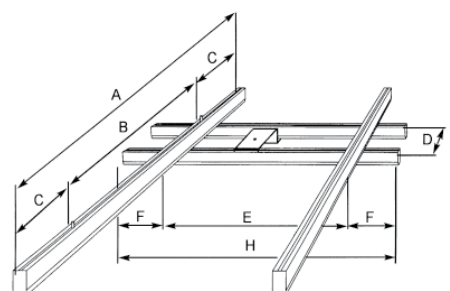
Single track system with several crane bridges for feeding CNC machines

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StarTrack – Wall and



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Vacuum - Material - Handling





Single track system with separate portals



Double track system for feeding a CNC machine



Double track system for handling wooden planks



Area-wide suspension crane system for the food industry



Double track system for commissioning

Column slewing jibs

Single rail

Profile type	A (max) (mm)	C (max) (mm)	B = 1.000 (kg)	2.000 (kg)	3.000 (kg)	4.000 (kg)	5.000 (kg)	6.000 (kg)	7.000 (kg)	8.000 (kg)
AP 85	8.000	300	125	100	75	40	25	-	-	-
AP 125	8.000	325	300	300	250	140	90	65	40	20
AP 160	8.000	350	600	600	600	430	220	150	110	75

Single track system

Suspension profile	A, H (max) (mm)	C, F (max) (mm)	E = 1.000 (kg)	2.000 (kg)	3.000 (kg)	4.000 (kg)	5.000 (kg)	6.000 (kg)	7.000 (kg)	8.000 (kg)
AP 85	8.000	300	125	100	75	40	25	-	-	-
AP 125	8.000	325	300	300	250	140	90	65	40	20
AP 160	8.000	350	600	600	600	430	220	150	110	75

Double track system

Suspension profile	A, H (max) (mm)	C, F (max) (mm)	D (mm)	E = 1.000 (kg)	2.000 (kg)	3.000 (kg)	4.000 (kg)	5.000 (kg)	6.000 (kg)	7.000 (kg)	8.000 (kg)
AP 85	8.000	300	250	250	200	150	80	25	25	-	-
AP 125	8.000	325	300	300	300	300	280	180	130	80	40
AP 160	8.000	350	300	600	600	600	600	450	300	200	150

Carrying capacities depend on the suspension distances and the length of bridges

Just smooth and precise

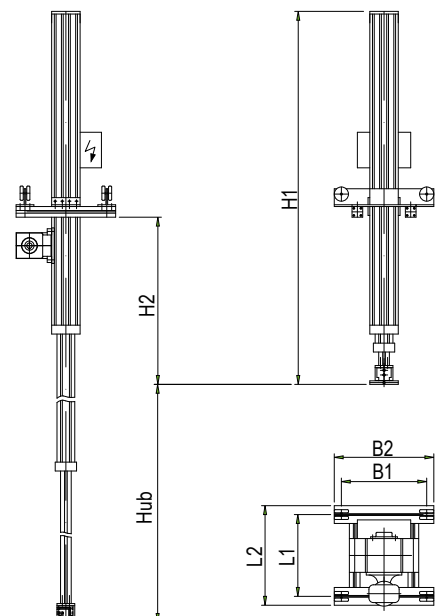
In combination with the smooth StarTrack system the rigid guiding system *LiftFix* is especially suitable for precise handling. Large castor wheels ensure that the loads can be smoothly manoeuvred. The up-down movement is controlled by push-buttons. The *LiftFix* unit can be also equipped with electric drives for every direction.

If required, the complete system can be supplied with sensors and control so that it is suitable for automated processes. And to carry loads up to 600 kg.



To-the-point feeding of a bending machine

LiftFix – rigid guiding





LiftFix for production of foam elements in an automated process



Automatic repositioning of sheets



Exact feeding of a CNC machine



Device for taking out sheets from a shelf

system

Carrying capacity (kg)	Type	Stroke (mm)	Speed (mm)	Momentum (N/M)	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	B1 (mm)	B2 (mm)	Own weight (kg)
250	LF-3	1.500	12	1.250	1.550	ca. 550	620	800	560	800	250
250	LF-3	2.000	12	1.000	1.800	ca. 800	620	800	560	800	275
250	LF-3	2.500	12	750	2.050	ca. 1.000	620	800	560	800	300
350	LF-2	1.000	12	2.000	1.700	ca. 800	620	800	560	800	200
350	LF-2	1.500	12	1.750	2.300	ca. 1.400	620	800	560	800	225
350	LF-2	2.000	12	1.500	2.900	ca. 2.000	620	800	560	800	250



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| VacuStand

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VacuStand – Swivelling and rotation

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VacuStand – electric turning

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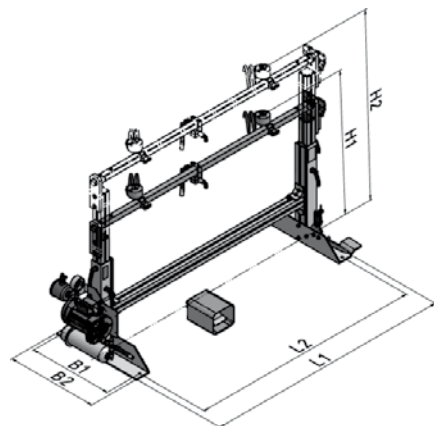
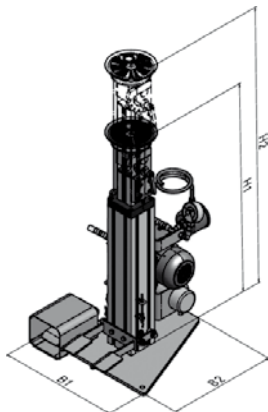
VacuStand

The *VacuStand* is the perfect vacuum working table if the sides of all kinds of materials have be worked on. For turning over large work pieces the *VacuStand* is also available with electric motor and separate control panel.

Ideal for working all sides

The *VacuStand* series distinguishes itself by a light but robust aluminium design. The work pieces can be swivelled by 90° and on the VS-I additional end-less rotation is possible. The working stand is height-adjustable which allows an ergonomic working of the parts laid on. The vacuum is controlled by floor switch which can be placed at will. For both device series foot-controlled modules are available with the advantage that the operator's hands are left free. It is almost impossible to get a more convenient device. For various applications a multitude of suction pads and attachments are available which can be exchanged very quickly.

VacuStand – Swivelli

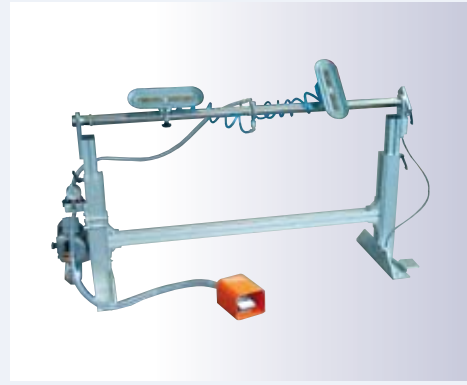




Working on stone plates



VS-I with Attachment IV



VacuStand VS-II with Attachment II



Grinding of formed parts



VacuStand with special attachment for pneumatic grippers

ng and Rotation

Type	Design	Swivelling	Rotation (mm)	L1 (mm)	L2 (mm)	B1 (mm)	B2 (mm)	H1 (mm)	H2 (mm)
VS I-AL-TA	Bench design	90°	endlos	-	-	-	-	-	-
VS I-AL	Single-foot	90°	endlos	-	-	435	400	770	1.025
VS II-AL2	Double-foot	+ / - 90°	-	1.175	1.265	460	500	1.000	750
VS II-AL3	Double-foot	+ / - 90°	-	1.175	1.265	460	500	1.000	750
VS II-AL4	Double-foot	+ / - 90°	-	1.175	1.265	460	500	1.000	750

Suction plates	FSRL 110	FSRL 160	FSRL 220	FSRL 280	FSL 100x200	FSL 100x300	Attachment II	Attachment IV
suitable for:	VS I /VS II	VS I /VS II	VS I /VS II	VS I /VS II	VS I /VS II	VS I /VS II	VS I	VS I
Dimensions (LxWxH)	D=110	D=160	D=220	D=280	100x200	100x300	820x200x110	820x400x150
Holding force horizontal	25 kg	50 kg	100 kg	150 kg	40 kg	65 kg	-	-
Haltekraft vertikal	13 kg	25 kg	50 kg	75 kg	20 kg	33 kg	-	-

The capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.

Turn it over easily!

Ideal for integration in processes which require a load to be turned over. The loads are placed on the suction plates and then turned over by pressing push-buttons on a separately placed control panel.

The end positions are secured by limit switches and stop the drive automatically. When the turned load is taken off, the lifter returns to its start position by the push of a button.

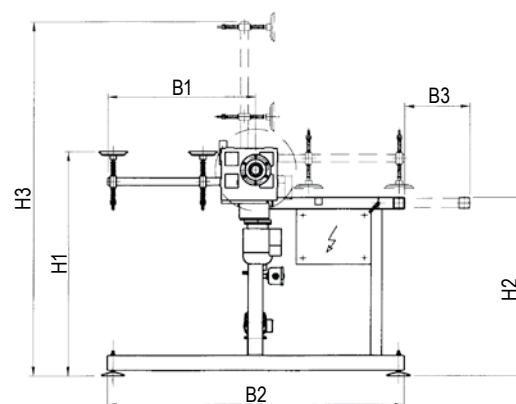
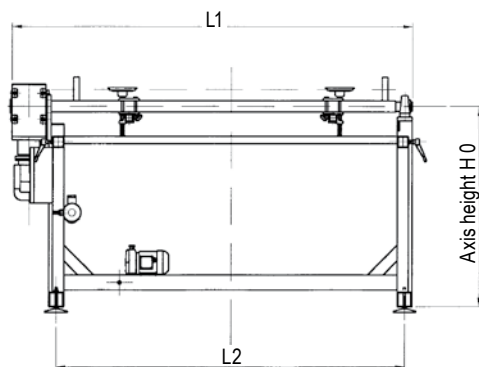
The system is equipped with an integrated safety tank and warning unit. For various application there are myriad options and special designs.



Coated steel sheets during the turning process

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VacuStand – turning





Turning of roof elements for automobiles



Turning station for side bodies of trucks with a length of 13500mm



Example: Placing the load on the suction plates



Example: Start the turning process

over electrically

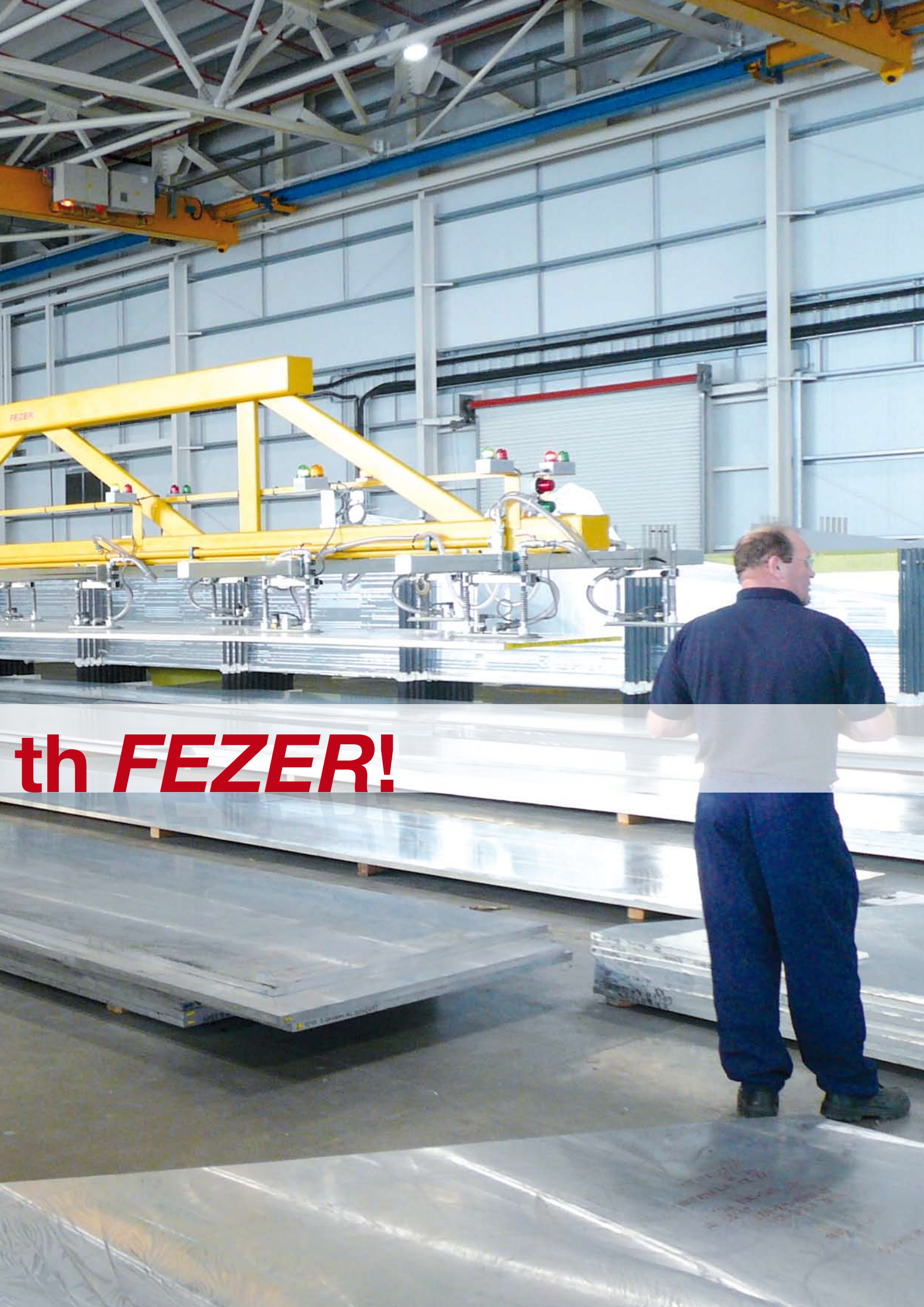
Carrying capacity (kg)	Type	Work piece dimensions		Pump	Number of suction plates	L1 (mm)	L2 (mm)	B1 (mm)	B2 (mm)	B3 (mm)	H1 (mm)	H2 (mm)	H3 (mm)
		max. (mm)	min. (mm)										
150	VS-II-180E	2.500 x 1.250	1.000 x 500	T 4.8	4, 6, 8	2.200	1.900	1.150	1.600	350	1.250	950	2.250
250	VS-II-180E	3.000 x 1.500	1.000 x 500	T 4.8	4, 6, 8	2.200	1.900	1.150	1.600	350	1.250	950	2.250

The carrying capacity refers to an operational vacuum of 60% and a dry surface, free of dirt.



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Just move more – wi



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FEZER

Vacuum - Material - Handling

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