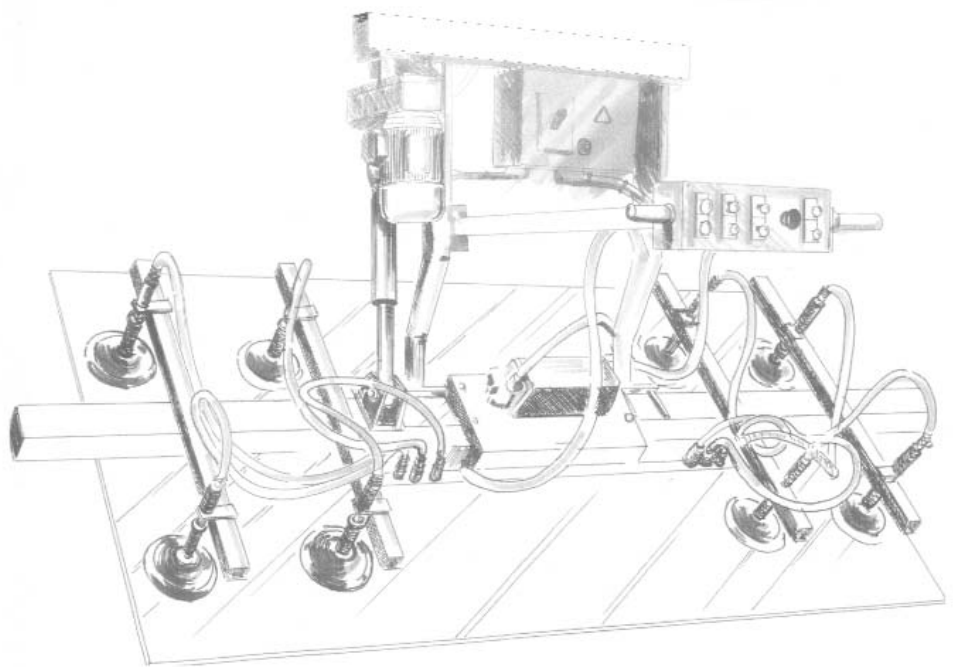


# VacuHandling

*Exciting perspectives!*

**FEZER**  
VACUUM · TRANSPORT · ENGINEERING  
AUTOMATION · TECHNOLOGY



***Vacuum Material Handling***

***We help you bear the load!***



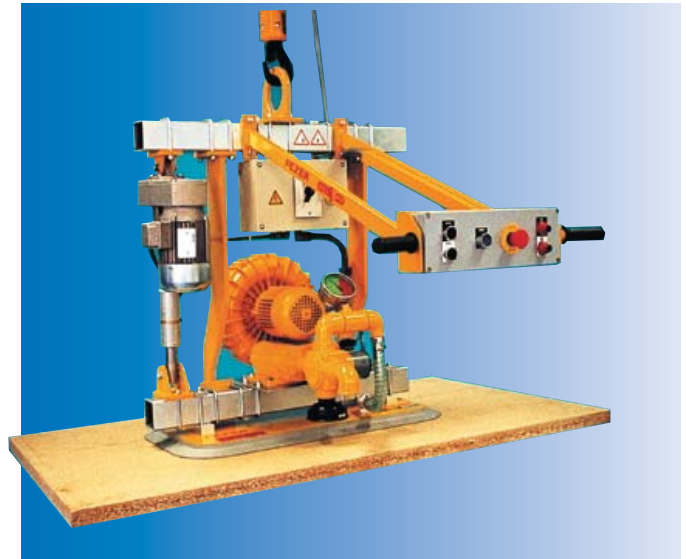
The vacuum load lifting devices **VacuBoy**, **VacuGiant** and **VacuCoil** are one of the most commonly used products when it comes to handling plate materials as well as coils or split strips.

Whether you want to transport the workpieces horizontally, swivel or even turn them, the vacuum load lifting devices of **Fezer** stand by you - the whole day through.

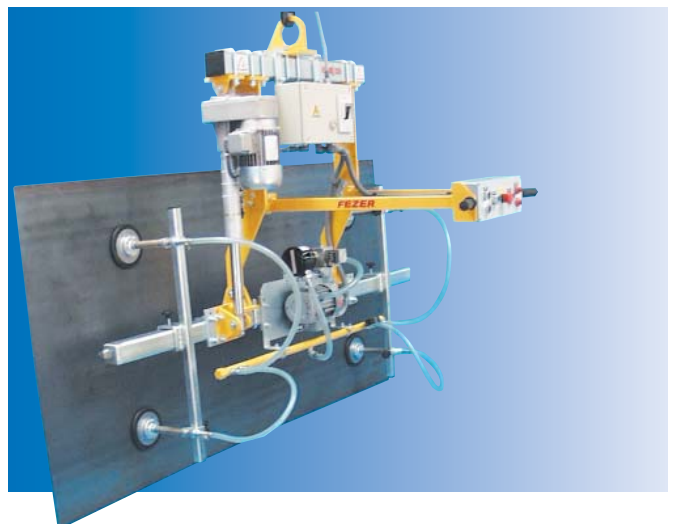
Since 1997 **Fezer** has been certified according to DIN ISO 9001. All devices are in accordance with the national (UVV) and international (CE) safety regulations and are supplied with the CE label.

This not only guarantees you a high quality standard but also offers you other advantages which soon will prove their economical worth:

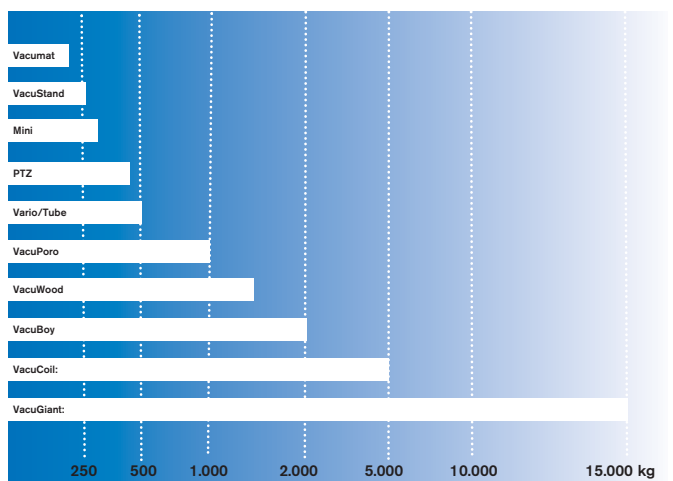
- Efficient, gentle and safe handling
- No mechanical damages by clamps, chains etc.
- Quick engagement and release of the transport goods
- Easy handling with just one operator
- Easy and fast adaption to different workpiece dimensions
- High safety standard with the help of a safety tank and acoustic/optical warning system (even in case of a power failure)
- ergonomic elements that can be operated easily
- Sturdy and high quality which has proved itself in numerous applications
- Low costs by low-maintenance vacuum pumps and wear-resistant suction plates
- Full maintenance and inspection service by competent Fezer engineers
- 2 years of guarantee and the right to return test devices
- Complete solutions with chain hoists or cranes, if desired with installation and putting into operation.



VacuPoro in swivel design for loads up to 500 kgs



Vacuboy with swivel attachment for horizontal and vertical transport.



Weight ranges of the individual types.

## Vacuum Load Lifting Devices for the Steel and Plastic Industry:

Type:	Application	Capacity:	Handling:	Page:
VacuBoy	dense workpieces	2000 kgs	horizontal	8
VacuBoy	dense workpieces	1000 kgs	swivelling	10
VacuBoy	dense workpieces	500 kgs	turning over	11
VacuBoy Tube	round materials, tubes	500 kgs	horizontal/vertical	7
VacuBoy Mini	inherent, barrels	300 kgs	horizontal/vertical	5
VacuBoy Vario	inherent, windows, glass	500 kgs	horizontal/vertical	6
VacuGiant	dense workpieces	15.000 kgs	horizontal	12
VacuGiant	dense workpieces	2.400 kgs	swivelling	14
VacuCoil	split strips, paper rolls	5.000 kgs	horizontal	16
VacuCoil	split strips, paper rolls	2.400 kgs	swivelling	17

## Vacuum Load Lifting Devices for Wood:

Type:	Application	Capacity:	Handling:	Page:
VacuPoro	porous plates	1.000 kgs	horizontal	18
VacuPoro	porous plates	500 kgs	swivelling	18
VacuWood	planks and wooden pieces	500 kgs	horizontal	20
VacuWood	gluelam beams	1.500 kgs	horizontal	21

## Transport tongs:

Type:	Application:	Capacity:	Handling:	Page:
PTZ	Plates	400 kgs	vertical, swivelling	28
TZ	Plates	100 kgs	vertical	28

## Vacuum Working Stand for the Working of all Sides:

Type:	Application	Capacity:	Handling:	Page:
VacuStand I+II	dense materials	150 kgs	turning, swivelling	30
VacuStand II	dense materials	250 kgs	turning over	31

## Lifting/Rail Systems:

Type:	Applicaton	Capacity:	Handling:	Page:
Liftfix	rigid lifting guide	300 kgs	stroke up to 2.500mm	22
StarTrack	rail system	600 kgs	areas of 8 x 20 metres	24
VacuMat	rigid lifting guide with protrusion	200 kgs	horizontal, swivelling	23

**Safety:**

All devices have a totally reliable safety concept:

- Vacuum pumps are chosen in adequate sizes
- Integrated vacuum tank with non-return valve
- Control vacuum gauge within viewing range
- Acoustic and/or optical warning systems, which indicate a decrease of the vacuum

**Handling:**

Workpieces can be easily manipulated through the sturdy and wide operating handle. The vacuum control is achieved either with a hand slide valve or a push-button in the operating console. The ergonomic position of the operating elements make the handling of the devices a piece of cake. Power supply through CEE or Harting plugs.

**Applications:**

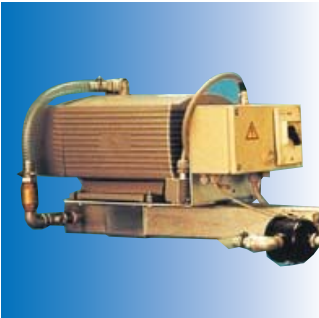
The devices offer an economic solution to myriad applications. They are easily adjustable to various different workpiece dimensions. For different tasks all devices are available for

- **horizontal operations**
- **swivelling operations (90°)**
- **turning operations (180°)**

**Accessories:**

There are many options available for the devices:

- Universal holder for pendant control of hoist
- Variable manipulating handles in telescopic design
- Water separator for moist workpieces
- "Battery-tool" for operation independent of electric power supply
- "Pneumatic-tool" for operation with compressed air only
- And many more



Vacuum pump with return valve enclosing safety tank in main beam



Manipulating handle with mounted hand slide valve for suction and release.



Rigidly fixed suction plate for the transport of stable and thick loads.



Suction plate with double swing for over-long wooden pieces and tilting preventor to avoid a tipping over of the device.



Distributing line with control vacuum gauge in viewing range.



Manipulating handle with integrated push buttons for electric control of several operations.



Water separator for moist and slightly wet wooden pieces and planks.



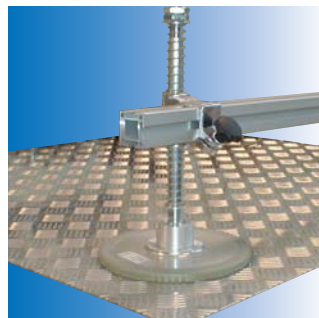
"Battery-Tool" - operation with battery and charging unit, independent of electric power supply.



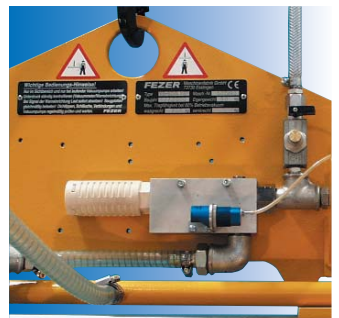
Optical warning system with a green lamp for "ready" and a red lamp for "vacuum too low".



Universal holder with Velcro fastener for all common control units.



All-sides spring-loaded suspension of the suction plate for uniform distribution of the load.



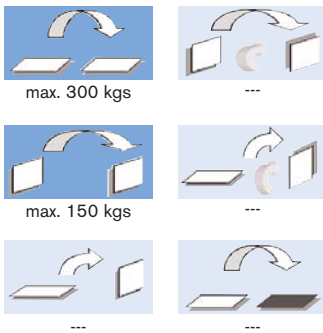
"Pneumatic-Tool" for compressed air operation with integrated pneumatic warning system.



# VACUBOY MINI

## THE LIGHTWEIGHT UP TO 300 KG

### Handling:



### Description:

- ✓ Compact and light device
- ✓ Handling without damage
- ✓ Only one operator
- ✓ High level of safety
- ✓ Ergonomic operating elements
- ✓ Hand slide valve
- ✓ Adjustable suction plates
- ✓ Oilless vacuum pump
- ✓ Acoustic warning system
- ✓ Signal colour (RAL 1004)
- ✓ High safety standard according to CE, UVV, VBG 9a

### Options:

- ✓ Optical warning system
- ✓ Higher pump efficiency
- ✓ Holder for pendants
- ✓ Variable main and cross beam lengths
- ✓ Integrated crane controls
- ✓ Automatic suction and release control
- ✓ Quick-change coupling for various suction plates
- ✓ Complete solutions with cranes

### Applications:

- ✓ Aluminium and steel sheets
- ✓ Barrels and containers
- ✓ Scaled and corroded sheet metal
- ✓ Chequered and chequered bead plates
- ✓ Glass and window panes
- ✓ Stone slabs
- ✓ Laminated chipboards
- ✓ And many more



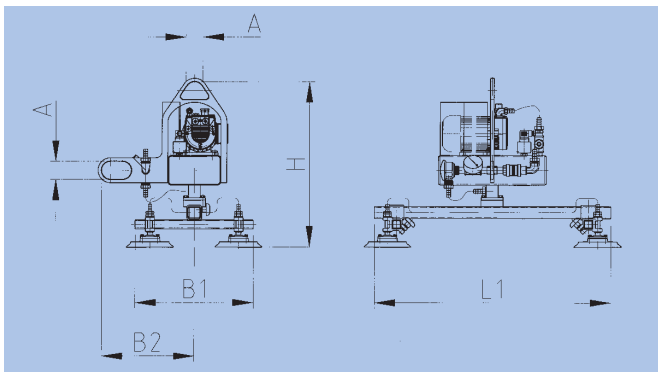
VacuBoy Mini, horizontal transport



VacuBoy Mini



VacuBoy Mini with automatic suction and release control



VacuBoy Mini with four suction plates



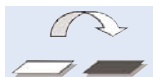
VacuBoy Mini, vertical transport

Carrying cap. (kg)	Type	Workpiece-dimensions		Thickness	Number of suction plates	Vacuum control	Vacuum generator	Own weight	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)
100/50	VBM 100/1	2.500 x 1.250	400 x 400	from 3	1 x FSL 230	manual	T 4.4	20 kg	220	220	270	450	60
	VBM 100/1	2.500 x 1.250	400 x 400	from 3	1 x PM 120x460	manual	T 4.4	20 kg	460	120	270	450	60
	VBM 100/4	2.500 x 1.250	1.000 x 400	from 3	4 x GR 115	manual	T 4.4	30 kg	1.200	400	270	550	60
150/75	VBM 150/4	2.500 x 1.250	1.000 x 400	from 3	4 x FSL 110	manual	T 4.4	30 kg	1.200	400	270	550	60
	VBM 200/1	2.500 x 1.250	1.000 x 400	from 3	1 x FSL 290	manual	T 4.4	20 kg	280	280	270	450	60
200/100	VBM 200/2	2.500 x 1.250	400 x 400	from 3	2 x FSRL 220	manual	T 4.4	20 kg	460	170	270	450	60
	VBM 300/1	2.500 x 1.250	1.000 x 400	from 3	1 x FSL 360	manual	T 4.4	22 kg	460	250	270	550	60
300/150	VBM 300/4	2.500 x 1.250	1.000 x 400	from 3	4 x FSRL 160	manual	T 4.4	32 kg	1.200	400	270	550	60

Carrying capacity: at 60% operational vacuum and dry, clean surfaces. The carrying capacity on vertical transport depends on the friction rating of the workpiece surface. The indicated rating refers to a friction rating of 0,5.

Device designs: M= vacuum control by solenoid valve, S= Automatic control by solenoid valve

### Handling:



### Description:

- ✓ Handling without damage
- ✓ Only one operator
- ✓ High level of safety
- ✓ Ergonomic operating elements
- ✓ Hand slide valve
- ✓ Adjustable suction plates
- ✓ Articulated suction plates
- ✓ Oilless vacuum pump
- ✓ Acoustic warning system
- ✓ Galvanized steel
- ✓ High safety standard according to CE, UVV, VBG 9a

### Options:

- ✓ Optical warning system
- ✓ Higher pump efficiency
- ✓ Variable main beam length
- ✓ Water separator for moist or wet workpieces
- ✓ Additional suspension eyes
- ✓ Battery operation
- ✓ Complete solutions with cranes

### Applications:

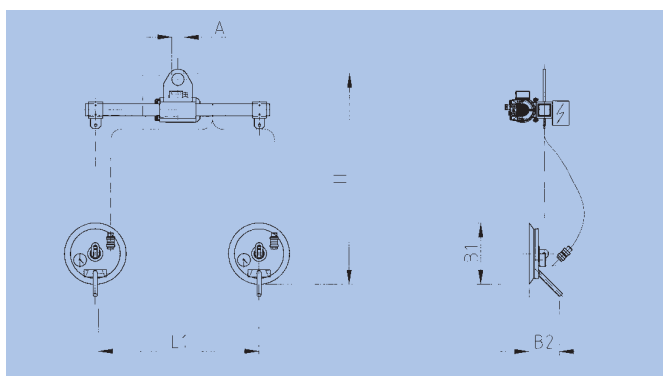
- ✓ Aluminium and steel sheets
- ✓ Scaled and corroded sheet metal
- ✓ Chequered and chequered bead plates
- ✓ Plastic plates
- ✓ Glass and window panes
- ✓ Stone slabs
- ✓ Laminated chipboards
- ✓ Elements for facades
- And many more



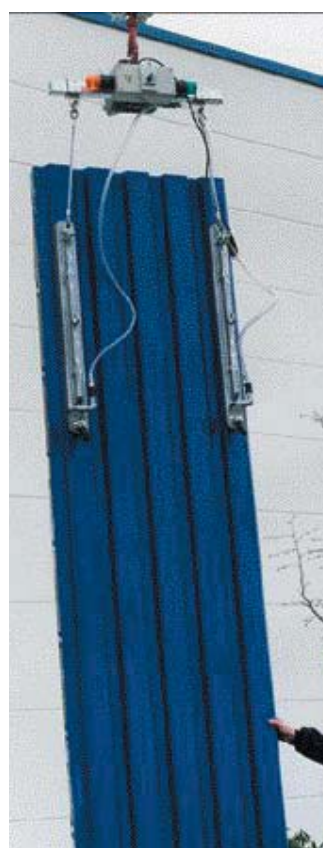
VacuBoy Vario with "battery-tool" for vertical transport of glass panes



VacuBoy Vario on horizontal transport operation



VacuBoy Vario on vertical transport operation



VacuBoy Vario for facade elements

carrying cap. (kgs)	Type	Type of suction plate	thickness min. (mm)	swivel mechanism	vacuum control	vacuum generator	own weight	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)
125/62,5	VBV 60/1	KPHL 300	from 3	manual	manual	T 4.4	40 kg	ca. 800	300	150	800	60
250/125	VBV 60/2	KPHL 300	from 3	manual	manual	T 4.4	50 kg	ca. 800	300	150	800	60
250/125	VBV 60/1	KPHL 450	from 3	manual	manual	T 4.4	50 kg	ca. 800	300	150	800	60
500/250	VBV 60/2	KPHL 450	from 3	manual	manual	T 4.4	60 kg	ca. 800	300	150	800	60

Carrying capacity: at 60% operational vacuum and dry, clean surfaces. The carrying capacity on vertical transport depends on the friction rating of the workpiece surface. The indicated rating refers to a friction rating of 0,5.

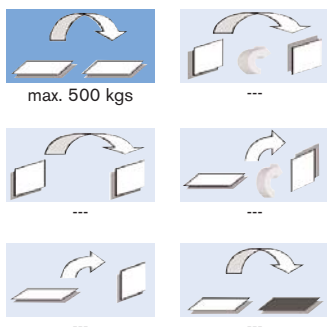
Device designs: M= vacuum control by solenoid valve

# VACUBOY TUBE

## FOR TUBES AND PROFILES UP TO 500 KGS

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AUTOMATION · TECHNOLOGY

### Handling:



### Description:

- ✓ Handling without damage
- ✓ Only one operator
- ✓ High level of safety
- ✓ Ergonomic manipulating handle on front side
- ✓ Integrated safety tank
- ✓ Hand slide /solenoid valve
- ✓ One suction plate for various surfaces
- ✓ Oilfree vacuum pump
- ✓ Acoustic warning unit
- ✓ Signal colour yellow (RAL 1004)
- ✓ High safety standard according to CE, UVV, VBG 9a

### Options:

- ✓ Optical warning unit
- ✓ Higher pump efficiency
- ✓ Holder for pendant
- ✓ Integrated crane functions
- ✓ Water separator for moist or wet work pieces
- ✓ Additional suspension eyes
- ✓ Complete solutions with cranes
- ✓ Special solutions on request

### Applications:

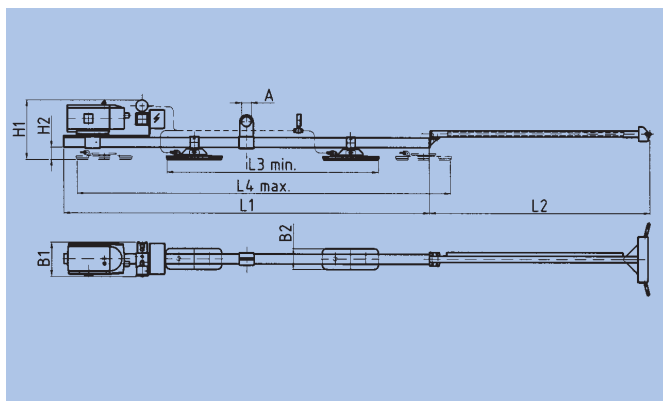
- ✓ Tubes and round work pieces with diameters of 45mm minimum
- ✓ Long work pieces from a width of 50mm and a length of 500mm
- ✓ Also for flat work pieces
- And many more!



VacuBoy Tube VBT 80/6 for foil rolls with a weight of 230 kgs maximum



VacuBoy Tube VBT 60/2 for plastic shafts with a diameter of up to 630 mm



VacuBoy Tube VBT100/3M for aluminium shafts with a weight of up to 500 kgs

Carrying capacity (kgs)	Type	Types of suction plates	Vacuum generator	Vacuum control	Own weight (kgs)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	B1 (mm)	B2 (mm)	H1 (mm)	H2 (mm)	A (mm)
44	VBT 60/2	2 x GF 100x200	16 m³/h	manual	ca. 130	2400	1800	1200	2500	230	100	480	150	80
65	VBT 60/3	3 x GF 100x200	16 m³/h	manual	ca. 140	2400	1800	1600	2500	230	100	480	150	80
88	VBT 60/4	4 x GF 100x200	16 m³/h	manual	ca. 150	3000	1800	2000	3100	230	100	480	150	80
240	VBT 80/2	2 x GF 300	25 m³/h	manual	ca. 150	3000	1800	1200	2500	260	300	530	150	100
375	VBT 80/3	3 x GF 300	25 m³/h	manual	ca. 160	3000	1800	1200	2500	260	300	530	150	100
500	VBT 80/4	4 x GF 350	25 m³/h	manual	ca. 175	3000	1800	1200	2500	260	300	530	150	100

Carrying capacity: at 60% operational vacuum and dry, clean surfaces.



### Handling:



max. 2.000 kgs



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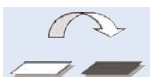
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### Description:

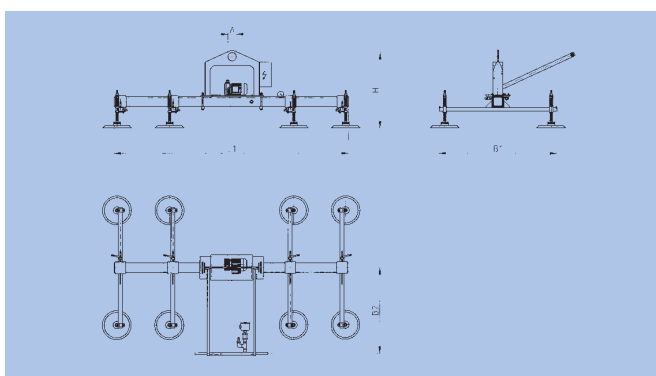
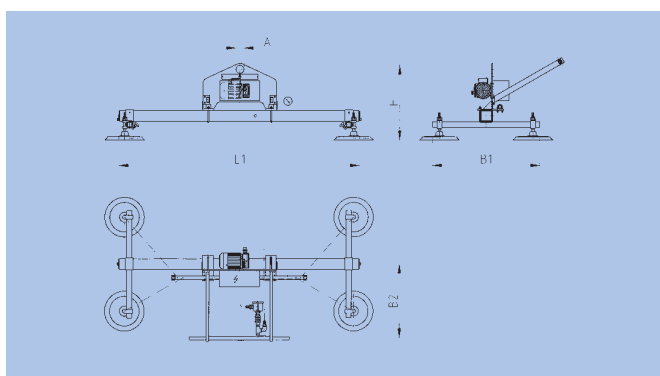
- ✓ Handling without damages
- ✓ Only one operator
- ✓ High safety level
- ✓ Ergonomic two-grip handle
- ✓ Integrated safety tank
- ✓ Hand slide/solenoid valve
- ✓ Adjustable suction plates
- ✓ Articulated suction plates
- ✓ Suction plates can be turned off individually
- ✓ Oilless vacuum pumps
- ✓ Acoustic warning system
- ✓ Signal colour yellow (RAL 1004)
- ✓ High safety standard according to CE, UVV, VGB 9a

### Options:

- ✓ Optical warning system
- ✓ Higher pump efficiency
- ✓ Holder for pendants
- ✓ Variable main and cross beam lengths
- ✓ Integrated crane controls
- ✓ Automatic suction and release controls
- ✓ Water separator for moist or wet workpieces
- ✓ Manipulating handle on front side
- ✓ Additional suspension eyes
- ✓ Complete solutions with cranes
- ✓ Special solutions on request

### Applications:

- ✓ Aluminium and steel sheets
- ✓ Scaled and corroded sheet metal
- ✓ Chequered and chequered bead plates
- ✓ Glass and window panes
- ✓ Stone slabs
- ✓ Laminated chipboards
- ✓ Sandwich elements
- And many more



Carrying cap. (kgs)	Type	Type of suction plates	Material thickness min. (mm)	vacuum control	vacuum generator	own weight	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)
100	VB 60/4	FSRL 110	from 1	manual	T 4.4	50 kgs	1.800	800	650	ca. 470	80
250	VB 60/4	FSRL 220	from 1	manual	T 4.4	50 kgs	1.800	800	650	ca. 470	80
	VB 60/6	FSRL 160	from 1	manual	T 4.4	60 kgs	1.800	800	650	ca. 470	80
	VB 60/8	FSRL 160	from 1	manual	T 4.4	70 kgs	1.800	800	650	ca. 470	80
375	VB 80/2	KPHL 360	from 3	manual	T 4.4	60 kgs	2.400	800	650	ca. 470	80
	VB 100/1	KPHL 450	from 5	manual	T 4.4	60 kgs	2.400	---	650	ca. 600	80
500	VB 80/4	FSRL 280	from 1	manual	T 4.4	70 kgs	2.400	800	650	ca. 470	80
	VB 80/8	FSRL 220	from 1	manual	T 4.8	80 kgs	2.400	800	650	ca. 470	80
750	VB 100/2	KPHL 450	from 5	manual	T 4.8	80 kgs	2.400	---	650	ca. 570	80
	VB 100/4	KPHL 360	from 3	manual	T 4.8	140 kgs	2.400	1.200	650	ca. 570	80
	VB 80/6	FSRL 280	from 1	manual	T 4.8	85 kgs	2.400	800	650	ca. 570	80
1.000	VB 100/6	FSRL 280	from 1	manual	T 4.16	180 kgs	2.400	1.200	900	ca. 570	80
	VB 100/8	FSL 290	from 1	manual	T 4.16	230 kgs	2.400	1.200	900	ca. 570	80
	VB 100/1	KPHL 450x850	from 2	manual	T 4.16	80 kgs	2.400	---	650	ca. 800	80
1.250	VB 100M/8	FSRL 280	from 1	electric	T 4.25	250 kgs	3.000	1.200	900	ca. 570	80
	VB 100M/12	FSRL 220	from 1	electric	T 4.25	300 kgs	3.000	1.200	900	ca. 570	80
2.000	VB 100M/12	FSL 290	from 1	electric	T 4.25	320 kgs	3.000	1.200	900	ca. 570	80
	VB 100M/16	FSRL 280	from 1	electric	T 4.25	360 kgs	3.000	1.200	900	ca. 570	80

Carrying capacity: at 60% operational vacuum and dry, clean surfaces.

Device designs: M= vacuum control by solenoid valve

Options:	Main beam lengths					Cross beam lengths		Manipulating handle lengths	
	1.800	2.400	3.000	3.600	4.200	800	1.200	650	900
VB 60	S	O	O	O	O	S	O	S	O
VB 80	O	S	O	O	O	S	O	S	O
VB 100	O	S	S	O	O	O	S	O	S

S = Standard

O = Optional



**VACUBOY**  
**HORIZONTAL TRANSPORT UP TO 2000 KGS**

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VacuBoy 100/10



VacuBoy 60/4



VacuBoy 80/12M



VacuBoy 80/8M



VacuBoy 100/6



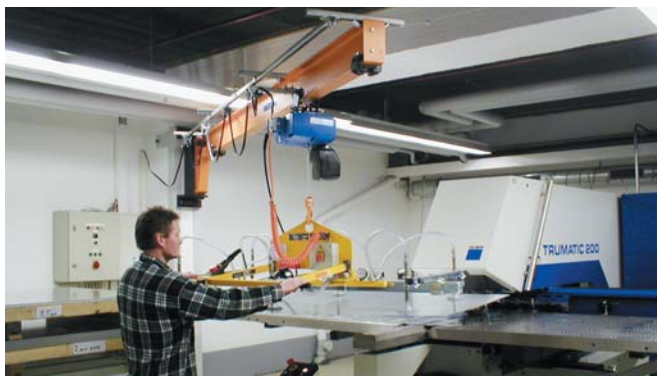
VacuBoy 60/8



VacuBoy 80/8



VacuBoy 100/8



VacuBoy 60/6



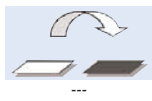
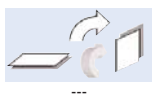
VacuBoy 100/3M in special design



VacuBoy 60/8 in special design telescopic lifting mechanism



### Handling:



### Description:

- ✓ Swivel mechanism with end stop and arbitrary stopping points
- ✓ Ergonomic two-grip handle with push buttons for swivel function
- ✓ Hand slide / solenoid valve
- ✓ Adjustable suction plates
- ✓ Articulated suction plates
- ✓ Suction plates can be turned off individually
- ✓ Oilless vacuum pumps
- ✓ Acoustic warning system
- ✓ Signal colour yellow (RAL 1004)
- ✓ High safety standard according to CE, UVV, VGB 9a

### Options:

- ✓ Optical warning system
- ✓ Higher pump efficiency
- ✓ Electric vacuum control
- ✓ Holder for pendants
- ✓ Variable main and cross beam lengths
- ✓ Variable manipulating handle length
- ✓ Integrated crane controls
- ✓ Water separator for moist or wet workpieces
- ✓ Additional suspension eyes
- ✓ Complete solutions with cranes
- ✓ Special solutions on request

### Applications:

- ✓ Aluminium and steel sheets
- ✓ Scaled and corroded sheet metal
- ✓ Chequered and chequered bead plates
- ✓ Plastic plates
- ✓ Glass and window panes
- ✓ Stone slabs
- ✓ Laminated chipboards
- ✓ Sandwich elements
- And many more



VacuBoy VB 60/4-90



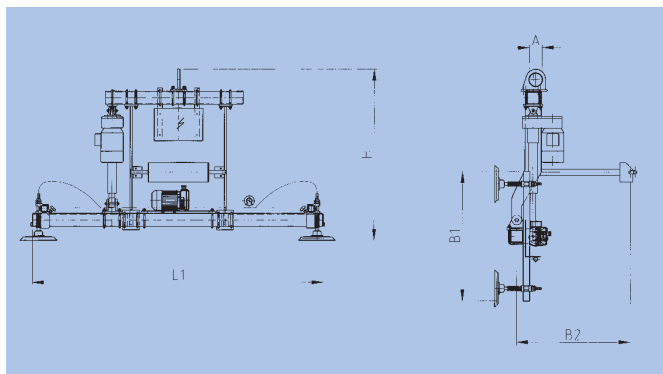
VacuBoy VB 60/8-90E



VacuBoy VB 80/4-90E in special design



VacuBoy VB in special design



VacuBoy 80/12-90E

Carrying cap. (kgs)	Type	Type of suction plate	Thickness (mm)	Swivel mechanism	Vacuum control	Vacuum generator	own weight	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)
100/50	VB 60/4-90	FSRL 110	from 1	manual	manual	T 4.4	70 kgs	1.800	800	650	ca. 500	80
200/100	VB 60/4-90E	FSRL 160	from 1	electric	manual	T 4.4	75 kgs	1.800	800	650	ca. 1.050	80
250/125	VB 60/8-90E	FSRL 110	from 1	electric	manual	T 4.4	85 kgs	1.800	800	650	ca. 1.050	80
500/250	VB 80/4-90E	FSRL 280	from 1	electric	manual	T 4.4	85 kgs	1.800	800	650	ca. 1.050	80
	VB 80/8-90E	FSRL 220	from 1	electric	manual	T 4.8	105 kgs	1.800	800	650	ca. 1.050	80
1.000/500	VB 100/8-90E	FSRL 280	from 1	electric	manual	T 4.16	350 kgs	2.400	1.200	650	ca. 1.100	80
	VB 100/12-90E	FSRL 220	from 1	electric	manual	T 4.16	360 kgs	2.400	1.200	650	ca. 1.100	80
1.500/750	VB 100M/8-90E	FSL 290	from 1	electric	electric	T 4.25	430 kgs	3.000	1.200	900	ca. 1.100	100
	VB 100M/12-90E	FSRL 280	from 1	electric	electric	T 4.25	440 kgs	3.000	1.200	900	ca. 1.100	100
2.000/1.000	VB 100M/12-90E	FSL 290	from 1	electric	electric	T 4.25	530 kgs	3.000	1.200	900	ca. 1.100	100
	VB 100M/16-90E	FSRL 280	from 1	electric	electric	T 4.25	530 kgs	3.000	1.200	900	ca. 1.100	100

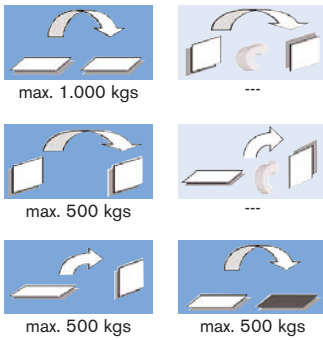
Carrying capacity: at 60% operational vacuum and dry, clean surfaces. The carrying capacity on vertical transport depends on the friction rating of the workpiece surface. The indicated rating refers to a friction rating of 0,5.

Device features: 90 = manual swivelling, 90E = electric swivelling, M = vacuum control by solenoid valve

# VACUBOY

## TURNING UP TO 500 KGS

### Handling:



### Description:

- ✓ Swivel mechanism with end stop and arbitrary stopping points
- ✓ ergonomic two-grip handle with push buttons for swivel function
- ✓ hand slide / solenoid valve
- ✓ adjustable suction plates
- ✓ articulated suction plates
- ✓ suction plates can be turned off individually
- ✓ oilless vacuum pumps
- ✓ acoustic warning system
- ✓ signal colour yellow (RAL 1004)
- ✓ high safety standard according to CE, UVV, VGB 9a

### Options:

- ✓ Optical warning system
- ✓ Higher pump efficiency
- ✓ Electric vacuum control
- ✓ Holder for pendants
- ✓ Variable main and cross beam lengths
- ✓ Variable manipulating handle length
- ✓ Integrated crane controls
- ✓ water separator for moist or wet workpieces
- ✓ additional suspension eyes
- ✓ complete solutions with cranes
- ✓ special solutions on request

### Applications:

- ✓ Aluminium and steel sheets
- ✓ scaled and corroded sheet metal
- ✓ chequered and chequered bead plates
- ✓ plastic plates
- ✓ glass and window panes
- ✓ stone slabs
- ✓ laminated chipboards
- ✓ sandwich elements
- ✓ and many more



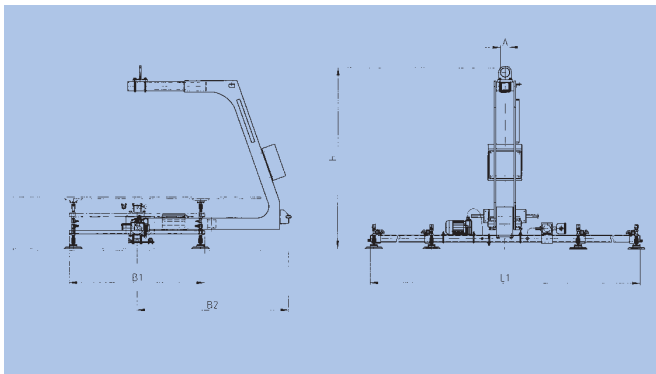
VacuBoy VB 80/8M-180E



VacuBoy VB 80/8M-180E



VacuBoy VB 80/8M-180E



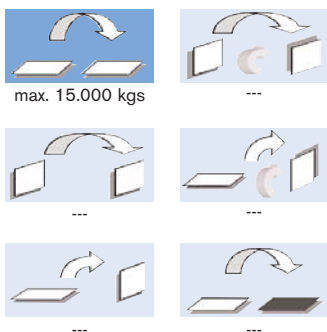
VacuBoy VB 60/4M-180E

Carrying cap. (kgs)	Type	Type of suction plate	Material thickness(mm)	Swivel mechanism	Vacuum control	Vacuum generator	own weight	L1 (mm)	B1 (mm)	B2 (mm)	H (mm)	A (mm)
250/125	VB 60M/4-180E	FSRL 220	from 1	electric	electric	T 4.4	200 kgs	1.800	800	1.200	ca. 1.400	80
	VB 60M/8-180E	FSRL 160	from 1	electric	electric	T 4.4	200 kgs	1.800	800	1.200	ca. 1.400	80
500/250	VB 60M/4-180E	FSRL 280	from 1	electric	electric	T 4.8	250 kgs	2.400	800	1.200	ca. 1.450	80
	VB 60M/8-180E	FSL 230	from 1	electric	electric	T 4.8	250 kgs	2.400	800	1.200	ca. 1.450	80
1.000/500	VB 80M/8-180E	FSRL 280	from 1	electric	electric	T 4.16	350 kgs	3.000	1.200	1.200	ca. 1.500	100
	VB 80M/12-180E	FSL 230	from 1	electric	electric	T 4.16	350 kgs	3.000	1.200	1.200	ca. 1.500	100

Carrying capacity: at 60% operational vacuum and dry, clean surfaces. The carrying capacity on vertical transport depends on the friction rating of the workpiece surface. The indicated rating refers to a friction rating of 0,5.

Device features: 180E = electric swivelling, M = vacuum control by solenoid valve

### Handling:



### Description:

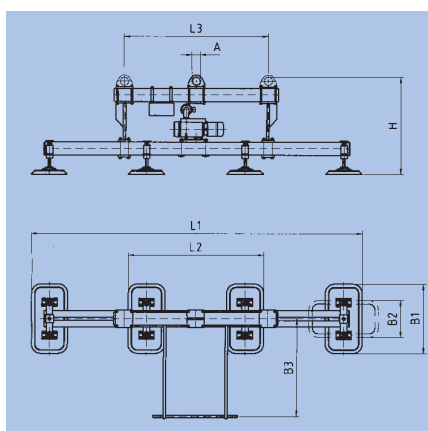
- ✓ Handling without damage
- ✓ Only one operator
- ✓ High level of safety
- ✓ Ergonomic operating elements and two-hand-grip
- ✓ Hand slide/solenoid valve
- ✓ Adjustable suction plates
- ✓ Articulated suction plates
- ✓ Suction plates can be turned off
- ✓ Oilless vacuum pump
- ✓ Acoustic warning system
- ✓ Signal colour (RAL 1004)
- ✓ High safety standard according to CE, UVV, VBG 9a

### Options:

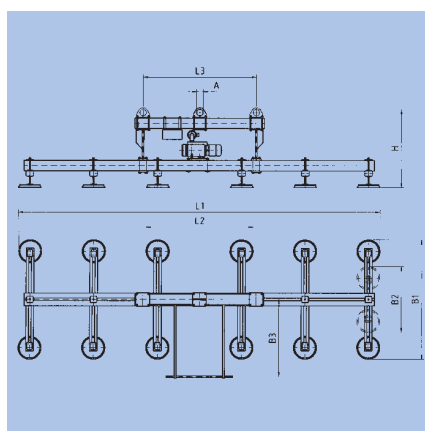
- ✓ Optical warning system
- ✓ Higher pump efficiency
- ✓ Holder for pendants
- ✓ Variable main and cross beam lengths
- ✓ Integrated crane controls
- ✓ Automatic switching mechanism for automatic suction and release
- ✓ Water separator for moist or wet workpieces
- ✓ Additional suspension eyes
- ✓ One- or two-point suspension
- ✓ Resting support
- ✓ Telescopic main beams

### Applications:

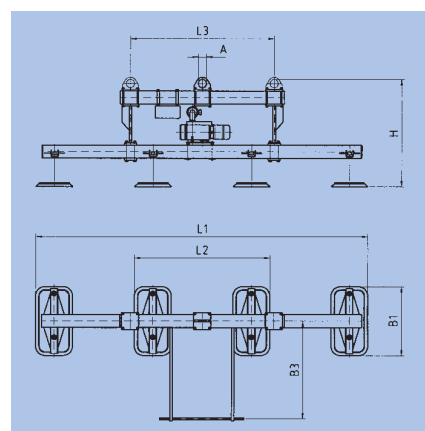
- ✓ Aluminium and steel sheets
- ✓ Scaled and corroded sheet metal
- ✓ Chequered and chequered bead plates
- ✓ Heavy aluminium and steel blocks
- ✓ For heavy loads with inherent stability
- ✓ In shipyards
- ✓ In aircraft industry
- ✓ Special solutions on request



Type VG-K= VacuGiant Kompact, without cross beams



Type VG-A= VacuGiant Allrounder, with cross beams



Type VG-R= VacuGiant Robust, with chain hoist

carrying cap. (kgs)	Type	Type of suction plate	vacuum generator	vacuum control	own weight (kgs)	L1 (mm)	L2 (mm)	L3 (mm)	B1 (mm)	B2 (mm)	B3 (mm)	H (mm)	A (mm)
2.500	VG-K 160/2	2 x KPHL 450x850	16 m³/h	manual	ca. 450	1.500	1.300	1.500	850	450	900	1.200	100
3.750	VG-K 160/3	3 x KPHL 450x850	25 m³/h	manual	ca. 600	3.000	2.000	1.500	850	450	900	1.200	100
5.000	VG-K 160/4	4 x KPHL 450x850	40 m³/h	manual	ca. 750	4.000	1.500	1.500	850	450	900	1.200	100
1.600	VG-A 160/4	4 x KPHL400	16 m³/h	manual	ca. 450	2.500	1.500	1.500	1.000	850	900	1.200	100
1.900	VG-A 160/8	8 x KGHL290	25 m³/h	manual	ca. 650	4.000	1.500	1.500	1.000	750	900	1.200	100
2.300	VG-A 160M/10	10 x KGHL290	25 m³/h	manual	ca. 700	5.000	3.000	2.000	1.000	750	900	1.200	100
2.800	VG-A 160M/12	12 x KGHL290	40 m³/h	manual	ca. 850	6.000	1.500	3.000	1.000	750	900	1.200	2x100
3.200	VG-A 160/8	8 x KPHL400	40 m³/h	manual	ca. 750	5.000	1.500	2.000	1.000	850	900	1.200	100
3.800	VG-A 160M/16	16 x KPHL 290	63 m³/h	manual	ca. 1.300	8.000	1.500	4.000	1.600	850	1.200	1.200	2x100
4.000	VG-A 160M/10	10 x KPHL 400	40 m³/h	manual	ca. 950	6.000	1.500	3.000	1.600	850	1.200	1.200	2x100
4.900	VG-A 160M/12	12 x KPHL 400	63 m³/h	manual	ca. 1.250	8.000	1.500	4.000	1.600	850	1.200	1.200	2x100
5.000	VG-R 300M/4	4 x KPHL 450x850	40 m³/h	electric	ca. 950	6.000	2.500	3.000	1.000	---	900	1.200	2x100
7.500	VG-R 300M/6	6 x KPHL 450x850	63 m³/h	electric	ca. 1.550	8.000	2.000	4.000	1.000	---	1.200	1.200	2x100
10.000	VG-R 300M/8	8 x KPHL 450x850	100 m³/h	electric	ca. 2.100	10.000	2.000	4.000	1.000	---	1.200	1.200	2x100
12.500	VG-R 300M/10	10 x KPHL 450x850	160 m³/h	electric	ca. 3.000	12.000	2.000	6.000	1.000	---	1.200	1.200	2x100

Carrying capacity: at 80% operational vacuum and dry, clean surfaces.

Device Designs: VG-K= VacuGiant Kompact, VG-A = VacuGiant Allrounder, VG-R= VacuGiant Robust  
M= vacuum control by solenoid valve, S= Automatic switching mechanism by solenoid valve



**VACUGIANT**  
**HORIZONTAL TRANSPORT UP TO 15.000 KGS**

**FEZER**  
 VACUUM · TRANSPORT · ENGINEERING  
 AUTOMATION · TECHNOLOGY



VacuGiant Kompakt VG-K



VacuGiant Kompakt VG-K with special design



VacuGiant Allrounder VG-A



VacuGiant Allrounder VG-A



VacuGiant Robust VG-R



VacuGiant Allrounder VG-A with special design



VacuGiant Robust VG-R



VacuGiant Allrounder VG-A with special design

### Handling:



max. 4.800 kgs



2.400 kgs



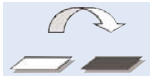
2.400 kgs



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...



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### Description:

- ✓ Swivel drive with end stop and arbitrary intermediate stops
- ✓ Ergonomic two hand grip with push button for swivel drive
- ✓ Hand slide valve/solenoid valve
- ✓ Adjustable suction plates
- ✓ Articulated suction plates
- ✓ Suction plates can be turned off
- ✓ Oilless vacuum pump
- ✓ Integrated safety tank
- ✓ Acoustic warning system
- ✓ Signal colour (RAL 1004)
- ✓ High safety standard according to CE, UVV, VBG 9a

### Options:

- ✓ Optical warning system
- ✓ Higher pump efficiency
- ✓ Electric vacuum control
- ✓ Holder for pendants
- ✓ Variable main and cross beam lengths
- ✓ Variable manipulating handle length
- ✓ Integrated crane controls
- ✓ Water separator for moist or wet workpieces
- ✓ Additional suspension eyes
- ✓ Telescopic main beams
- ✓ Complete solutions with cranes
- ✓ Special solutions on request

### Applications:

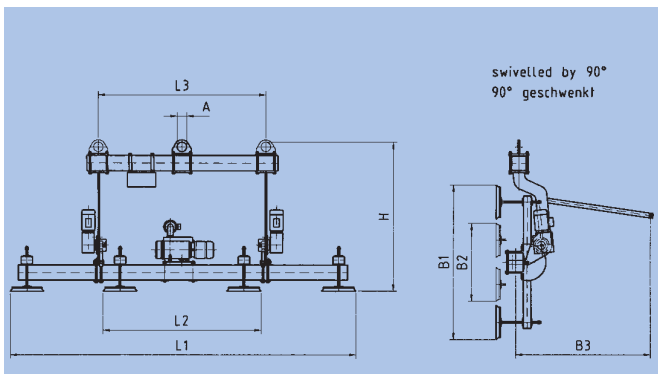
- ✓ Aluminium and steel sheets
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- ✓ In aircraft industry
- ✓ Special solutions on request



VG 100/14M-90E in special design



VG 160/12M-90E



VG 100/8M-90E in special design



VG 100/12M-90E

carrying cap. (kgs)	Type	Type of suction plate	vacuum generator	vacuum control	own weight (kgs)	L1 (mm)	L2 (mm)	L3 (mm)	B1 (mm)	B2 (mm)	B3 (mm)	H (mm)	A (mm)
1.600 / 800	VG 160/4-90E	4 x KPHL 400	16 m³/h	electric	ca. 750	3.000	1.500	1.500	1.000	850	900	2.250	100
2.400/1.200	VG 160/6-90E	6 x KPHL 400	25 m³/h	electric	ca. 900	3.000	2.500	1.500	1.000	850	900	2.250	100
3.200/1.600	VG 160/8-90E	8 x KPHL 400	40 m³/h	electric	ca. 1100	4.000	1.500	2.000	1.000	850	900	2.250	100
4.000/2.000	VG 160M/10-90E	10 x KPHL 400	40 m³/h	electric	ca. 1350	5.000	1.500	3.000	1.200	850	1.200	2.500	2x100
4.800/2.400	VG 160M/12-90E	12 x KPHL 400	60 m³/h	electric	ca. 1600	6.000	1.500	4.000	1.200	850	1.200	2.500	2x100

Carrying capacity: at 60% operational vacuum and dry, clean surfaces. The carrying capacity on vertical transport depends on the friction rating of the workpiece surface. The indicated rating refers to a friction rating of 0,5.

Device Designs: 90E= electric swivel mechanism; M= electric vacuum control by solenoid valve



#### Advantages:

This series guarantees an entirely safe, efficient and most of all damage-free handling of coils and split coil rings. Even laminated materials and banded coils can be transported without problems. By direct suction on the front surface, coils can be lifted from various positions thus storage space can be saved. Ergonomically located operation elements on the manipulating handle require only a single operator.

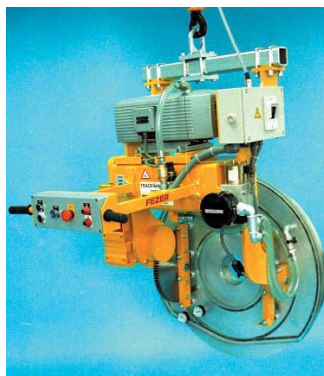
#### Safety:

The Vacucoil devices can be operated with mounted safety tanks, separately located energy units or ejectors, which guarantees a high degree of operational safety, even in case of power failure. Mounted vacuum gauges in viewing range show the operational vacuum in every individual suction chamber. An additional acoustic warning system sets off if the vacuum falls below the required operational level.

All devices are designed according to the current accident prevention regulations (CE, UVV 18, VGB 9a) and are supplied with a CE label.



**VACUOCOIL** with 7 chambers in steel design, with two rows of sight windows



**VACUOCOIL** with transparent and partially flattened suction plate



Lift



Swivel

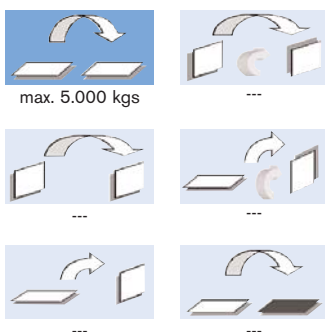


Transport

#### Factors of influence for coil handling:

✓ Outer diameter:	D <sub>A</sub> min:	D <sub>A</sub> max:
✓ Inner diameter:	D <sub>I</sub> min:	D <sub>I</sub> max:
✓ Coil thickness:	t max:	t max:
✓ Ring width:	h max:	h min:
✓ Weight (kg):	min:	max:
✓ Winding traction:	strong	weak
✓ Material:	coated (penetrable by air)	coated
✓ Type of band	with shackle	without shackle

### Handling:



### Description:

- ✓ Handling without damage to the workpiece
- ✓ High degree of safety
- ✓ Each suction chamber with vacuum gauge and manual stop valve
- ✓ Ergonomic two-hand grip
- ✓ Ergonomic operation elements
- ✓ Hand slide valve/solenoid valve
- ✓ Mounted safety tank or separately located vacuum energy unit
- ✓ Acoustic warning system
- ✓ Signal colour yellow (RAL 1004)
- ✓ High safety standard according to CE, UVV, VBG 9a

### Options:

- ✓ Optical warning system
- ✓ Higher pump efficiency
- ✓ Transparent suction chamber
- ✓ Flattened suction plate design
- ✓ Integrated crane controls
- ✓ Automatic operation for suction and release control
- ✓ Multiple-chamber design, where each chamber can be turned off individually
- ✓ Automatic turn-off of chambers that are not used
- ✓ Complete solutions with cranes

### Anwendung:

The **VACUCOIL** devices are suitable for horizontal transport like commissioning, loading and stacking

- ✓ In rolling mills
- ✓ In cable manufacturing
- ✓ In paper and print industries
- ✓ In plastic manufacturing
- ✓ In automotive industries
- ✓ In processing industries



VacuCoil in automatic unit



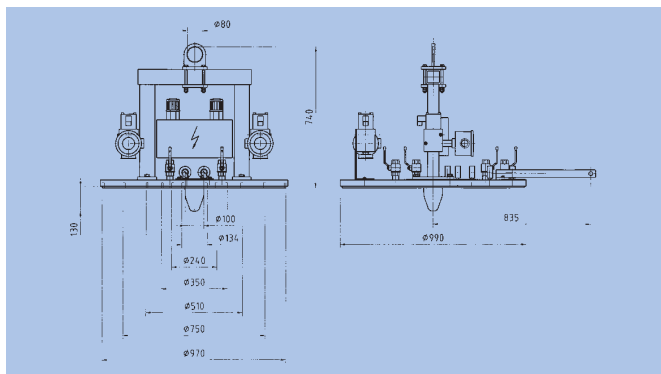
VacuCoil with transparent suction plate



VacuCoil with mechanical claws



VacuCoil in automatic unit



Example drawing



VacuCoil for paper rolls



VacuCoil in automatic paper storage

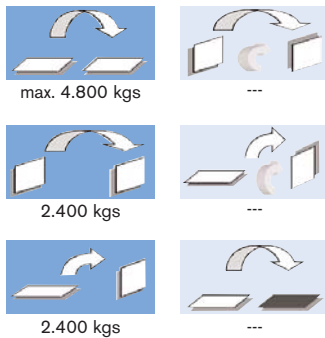
Carrying cap. (kgs)	Type	Diameter of suction plates inside (mm) outside (mm)	Number of chambers	Vacuum generator	Vacuum control	Crane eye (mm)	Height (mm)	Own weight (kgs)
500	VC 500	ca. 150 min. 600	max. 2	25 m³/h	manual	85	ca. 700	ca. 200
1.000	VC 1000	ca. 150 min. 700	max. 3	40 m³/h	manual	85	ca. 700	ca. 300
2.000	VC 2000	ca. 250 min. 1.000	max. 6	63 m³/h	electric	100	ca. 1.000	ca. 350
3.000	VC 3000	ca. 200 min. 1.150	max. 7	63 m³/h	electric	100	ca. 1.000	ca. 400
4.000	VC 4000	ca. 250 min. 1.300	max. 8	100 m³/h	electric	200	ca. 1.000	ca. 500
5.000	VC 5000	ca. 300 min. 1.500	max. 9	100 m³/h	electric	200	ca. 1.000	ca. 600

Carrying capacity: at 60% operational vacuum and dry, clean surfaces.

Device Designs: M= electric vacuum control by solenoid valve S= automatic operation by solenoid valve



### Handling:



### Description:

- ✓ Swivel drive with end stop and arbitrary intermediate stops
- ✓ Handling without damages to work piece
- ✓ High safety level
- ✓ Each suction chamber with vacuum gauge and manual stop valve
- ✓ Ergonomic two-hand grip
- ✓ Hand slide valve/solenoid valve
- ✓ Mounted safety tank or separately located vacuum tank
- ✓ Acoustic warning system
- ✓ Signal colour yellow (RAL 1004)
- ✓ High safety standard according to CE, UVV, VBG 9a

### Options:

- ✓ Optical warning system
- ✓ Higher pump efficiency
- ✓ Transparent suction chambers
- ✓ Flattened suction plates
- ✓ Integrated crane controls
- ✓ Automatic operation for automatic suction and release
- ✓ Multiple-chambers design where each chamber can be turned off individually
- ✓ Automatic turn-off of chambers that are not in use
- ✓ Complete solutions with cranes

### Applications:

The **VACUCOIL** devices are suitable for horizontal and vertical transport like commissioning, loading and stacking or putting on or lifting off an arbor

- ✓ In rolling mills
- ✓ In cable manufacturing
- ✓ In paper and print industries
- ✓ In plastic manufacturing
- ✓ In automotive industries
- ✓ In processing industries



VacuCoil in cable manufacturing



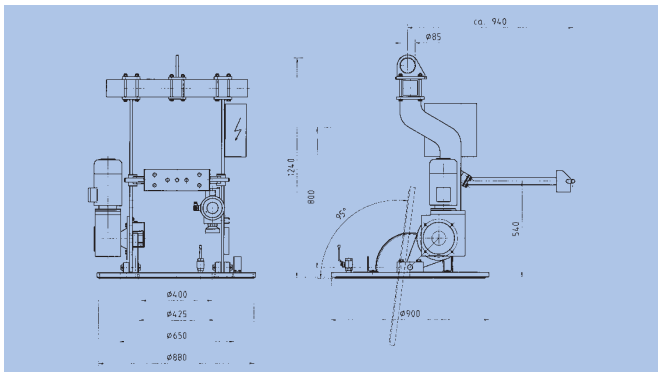
VacuCoil while lifting from an arbor



VacuCoil for aluminium coils



VacuCoil with transparent suction plate



Example drawing



VacuCoil with flattened suction plate



VacuCoil in an automatic rig

Carrying cap. (kgs)	Type	Diameter		Number of chambers	Vacuum control	Vacuum generator	Swivel operator	Swivel range	Crane eye (mm)	Height (mm)	Own weight (kgs)
500/250	VC 250-90E	ca. 150	min. 650	max. 3	electric	25 m³/h	1 el.-cylinder	0-85°	85	ca. 1150	ca. 200
1.000/500	VC 500-90E	ca. 150	min. 750	max. 4	electric	40 m³/h	1 gear motor	0-90°	85	ca. 1000	ca. 400
1.250/750	VC 750-90E	ca. 200	min. 850	max. 5	electric	40 m³/h	1 gear motor	0-90°	85	ca. 1100	ca. 450
2.000/1.000	VC 1000M-90E	ca. 200	min. 1.000	max. 6	electric	63 m³/h	2 gear motors	0-90°	100	ca. 1200	ca. 800
3.000/1.500	VC 1500M-90E	ca. 250	min. 1.300	max. 7	electric	63 m³/h	2 gear motors	0-90°	100	ca. 1300	ca. 900
4.000/2.000	VC 2000M-90E	ca. 250	min. 1.500	max. 8	electric	100 m³/h	2 gear motors	0-90°	100	ca. 1400	ca. 1.000

Carrying capacity: at 60% operational vacuum and dry, clean surfaces. The carrying capacity on vertical transport depends on the friction rating of the workpiece surface. The indicated rating refers to a friction rating of 0,5.

Device Designs: 90E= electric swivelling M= electric vacuum control by solenoid valve