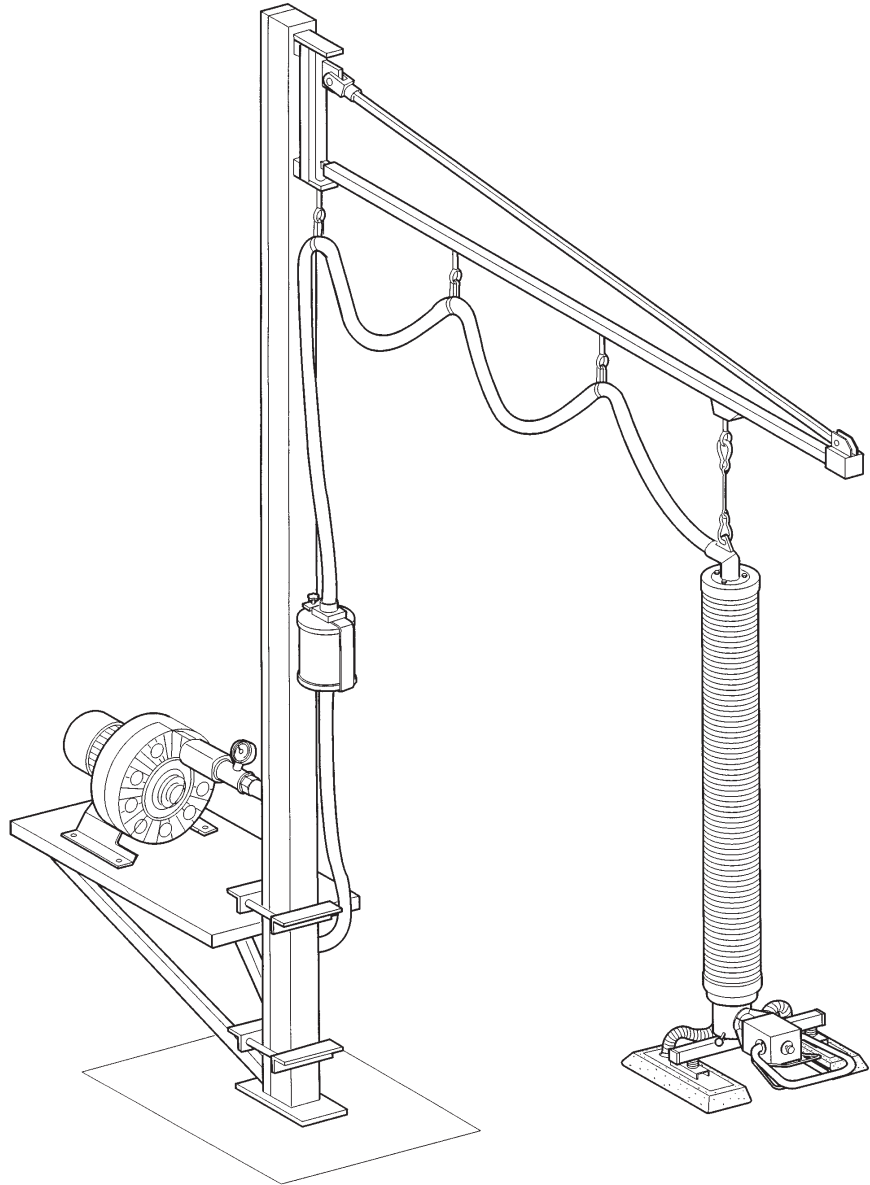


VacuPowerlift

FEZER
VACUUM · TRANSPORT · TECHNOLOGY
AUTOMATION TECHNOLOGY



The Tube Lifter!

Exciting Perspectives!



The **VacuPowerlift** is the efficient answer to almost any handling problem. No matter if you need to stack cardboard boxes, steel or wooden plates, load drums, lay stone slabs or even transport whole machines the **VacuPowerlift** offers an intelligent solution for almost any task.

At the same time you can literally kill two birds with one stone.

Because the **VacuPowerlift** requires only one medium for engagement and lifting of the load: vacuum.

Our highest goal when we further developed this series was the convenience of the operator.

By simple and ergonomic placement of the operation elements on the **VacuPowerlift**, and the new, low-noise blowers even the lifting of heavy loads is real fun!

Safety:

The **VacuPowerlift** is a closed system and requires no additional safety units, like electric warning units etc. The relation between suction area and suction tube guarantees that the loads keep engaged to the suction foot with adequate safety. Even in case of a power failure the loads do not simply fall off. An integrated non-return valve takes care that engaged loads are lowered to the floor safely and controlled before they disengage from the suction foot.

Ergonomic Handling

Easy control of the **VacuPowerlifts** guarantees a flawless operation right from the beginning. Two possible control units are available.

Control unit with tilting lever:

Press the handle upwards - the **VacuPowerlift** lifts the load.
Press the handle downwards - the **VacuPowerlift** lowers the load.

Control unit with turning lever:

Here you control the **VacuPowerlift** similar to driving a motorbike:
Turn it forwards - the load is lifted.
Turn it backwards - the load is lowered.

Individual Adjustment

Various extensions for the control units allow an optimal adjustment to your individual requirements.

- Rigid extensions

for the handling of large parts like plates, big cardboard boxes,...

- Angle extensions

for stacking loads on high levels. The extension joint can be adjusted to the working position at any time and the loads can be manoeuvred easily and safely.



Turning head with integrated non-return valve



Control unit with tilting lever. The tube is lifted and lowered by pushing the lever upwards and downwards.



Rigid extension:
For large parts



Control unit with turning lever. The tube is lifted and lowered by turning the lever forwards and backwards.



Angle extension:
For stacking loads on high levels.

VACUPOWERLIFT

ADVANTAGES GALORE

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The Vacuum Blowers:

An ergonomic working place requires also a reliable and low-noise generator.

The new blowers distinguish themselves through their decreased noise. Special silencers set the noise level below 75 dB(A).

The blowers have a high life expectancy and reliability and they work absolutely wear-resistantly.

This guarantees you a high operation safety at low operational costs.

Finely tuned to the various sizes of the **VacuPowerlift** and your individual requirements three different blowers are available:

- SKE 2,2-0070 (2,2 kW)
- SKE 3,3-0070 (3,3 kW)
- SKE 4,0-0120 (4,0 kW)

The right solution:

No matter what you want to transport - you ought to use the right suction foot!

There is no difference if you want to transport a sack, a cardboard box or even a hunk of cheese.

We offer you a wide range of suction feet which will prove to be the right choice for almost any application.

And should you require to lift different types of load with the same lifter, all suction feet can be equipped with a quick-change coupling. This allows to exchange the suction feet easily and quickly, even during the operation.



Single suction foot in round design for drums, stones, etc.



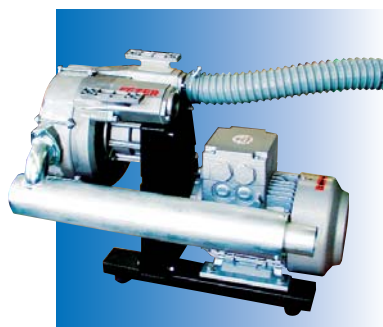
Single suction foot in bellows design for round and vaulted areas



Double suction foot for cardboard boxes, plates or larger bodies

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

This guarantees you a continuously high quality standard and high reliability and safety of the devices.



Vacuum blower with silencer



Quick-change-coupling to easily exchange the suction plates



Fourfold suction foot for cardboard boxes, large parts and plates

Handling:



max. 50 kg



max. 25 kg



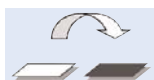
max. 25 kg



max. 25 kg



max. 25 kg



Description:

Whether in a logistic center or in a mail order company, in the agriculture or producing industry - the *VacuPowerlift* cuts a fine figure. Even in restricted space it offers a maximum of flexibility and mobility.

To further increase this flexibility we can offer you a wide range of standard suction feet and accessories. And should this not suffice we can offer you special solutions.

Options:

- ✓ Extended handles
- ✓ Endlessly turnable turning feature
- ✓ 90° angle adapter
- ✓ Silencer box for blower
- ✓ Remote control for blower
- ✓ Quick-change coupling for exchanging suction feet
- ✓ All stainless steel for food industry
- ✓ Pneumatic feeding for swivel feature or gripper
- ✓ Complete solutions with crane systems

Applications:

- ✓ Packing industry
- ✓ Agriculture
- ✓ Wood industry
- ✓ Plastic industry
- ✓ Glass and windows industry
- ✓ Stone industry
- ✓ Food industry
- ✓ TV industry
- ✓ Drums and containers
- ✓ Crates and transport containers
- ✓ And many, many more!



VPL 100 TO 140
FOR LOADS UP TO 45 KGS



VacuPowerlift VPL with single suction foot in bellows design SFE 250 FBS for glued or strapped boxes.



VacuPowerlift VPL with single suction foot SFE 200 V in round design for the handling of drums and containers.



VacuPowerlift VPL with single suction foot in round stainless steel design SFE 200 V ES for the food industry.



VacuPowerlift VPL with fourfold suction foot SFV 115 FBS in bellows design for glued and open boxes.



VacuPowerlift VPL with single suction foot SFE 120x320 for the transport of TV tubes.



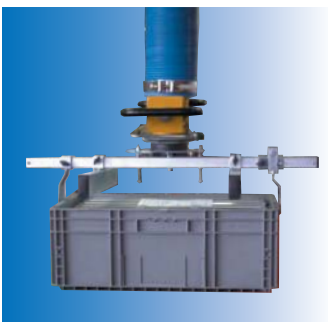
VacuPowerlift VPL with sack suction foot SFS 190x290K in plastic design for paper and plastic sacks.



VacuPowerlift VPL with special suction foot for the mechanical transport of drums with grip straps.



VacuPowerlift VPL with angle extension for the stacking of loads higher up.



VacuPowerlift VPL with mechanical special suction foot for the handling of transport crates.



VacuPowerlift VPL with single suction foot and angle adapter in all stainless steel design.

Handling:



max. 160 kg



max. 80 kg



max. 80 kg



max. 80 kg



max. 80 kg



Description:

For truly heavy loads the *VacuPowerlifts VPL 160 - VPL 230* are the right choice. Whether you want to move big and heavy plates, furniture, stone or concrete plates or over-large boxes - here you find an ergonomic solution to your problem. Powerful blowers guarantee that even the heaviest loads can be transported safely and rationally.

Options:

- ✓ Extended handles
- ✓ Endlessly turnable turning feature
- ✓ 90° angle adapter
- ✓ Silencer box for blower
- ✓ Remote control for blower
- ✓ Quick-change coupling for exchanging suction feet
- ✓ All stainless steel for food industry
- ✓ Pneumatic feeding for swivel feature or gripper
- ✓ Complete solutions with crane systems

Anwendungen:

- ✓ Packing industry
- ✓ Agriculture
- ✓ Wood industry
- ✓ Plastic industry
- ✓ Glass and windows industry
- ✓ Stone industry
- ✓ Food industry
- ✓ TV industry
- ✓ Drums and containers
- ✓ Crates and transport containers
- ✓ And many, many more!



VPL 160 TO 230
FOR LOADS UP TO 150 KGS



VacuPowerlift VPL with special suction foot for the transport of TV sets.



VacuPowerlift VPL with single suction foot SFE 140x380 for smooth and slightly rough surfaces (concrete, stone plates)



VacuPowerlift VPL with sack suction foot SFS 230x380K in plastic design for sacks with a weight of up to 80 kgs.



VacuPowerlift VPL with double suction foot SFD 120x320 for glued, strapped or open boxes.



VacuPowerlift VPL with double suction foot SFD 120x320 and manual swivel feature (90°) for the horizontal and vertical handling of almost all kinds of plates.



VacuPowerlift VPL with pneumatic gripper for engagement of standing steel cylinders.



VacuPowerlift VPL with fourfold suction foot SFV 120x320 and rigid extension for large goods.



VacuPowerlift VPL with sack suction foot SFS 230x380K in plastic design for handling of Indian rubber bales.



VacuPowerlift VPL with double suction foot and angle extension for control unit in all stainless steel design.



VacuPowerlift VPL with single suction foot SFE 250V for the transport of barrels with a smooth surface.

As an ideal completion we can offer a wide range of accessories. All parts are usable on the **VacuPowerlift** and can be ordered and mounted at a later time.



Feeding hose:

To connect the blower with the lifting unit. Inner diameter ca. 52 mm, standard lengths of 8-24 meters, can be extended at will.



Dust filter:

To protect the blower against dust and dirt particles. Easy-maintenance filter with exchangeable cartridge.

Naturally, we offer also special solutions according to your requirements. Our competent salesmen will be happy to advise you on the possibilities. For installation our reliable service engineers are always ready to help.



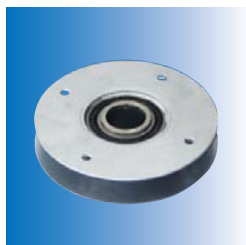
Silencer box:

Reduces the noise level to ca. 65 dB(A)



Remote control:

With pocket transmitter for wireless on/off control of the blower. This is recommended if the blower is not placed next to the lifter.



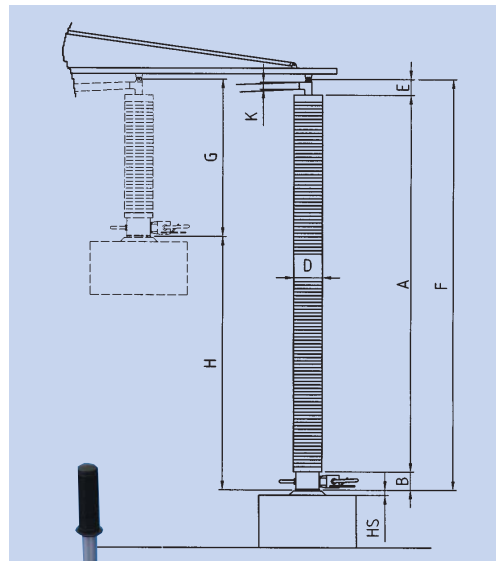
Turning feature:

The suction foot is turnable and allows free placement of the load.



All stainless steel design:

For the food industry or in areas where there are high purity regulations the **VacuPowerlift** is available in all stainless steel.



Angle adapter:

Engaged loads can be swivelled by 90°. Ideal for rightening or disengagement of workpieces standing upright.



Quick-change coupling:

Different suction feet can be exchanged without any tools within seconds.



Special designs:

For many different applications special designs and solutions can be provided, which allow a safe and reliable handling.

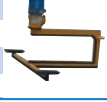


pneumatic swivel feature:

Swivels engaged loads by 90°. Via a 3/2-ways-valve a double acting cylinder is controlled. Loads up to a weight of 150 kgs can be swivelled.

Technical data of the *VacuPowerlifts*

	VPL 100	VPL 120	VPL 140	VPL 160	VPL 180	VPL 200	VPL 230
Carrying capacity with							
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 with:							
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
Tube:	D 100 mm	120 mm	140 mm	160 mm	180 mm	200 mm	230 mm
Total height:	F 2.750 mm	2.750 mm	2.750 mm	2.750 mm	2.750 mm	2.750 mm	2.750 mm
Tube compressed:	G 750 mm	750 mm	750 mm	770 mm	770 mm	800 mm	800 mm
Stroke length tube:	H 1.750 mm	1.750 mm	1.750 mm	1.730 mm	1.730 mm	1.700 mm	1.700 mm
Height tube:	A 2.500 mm	2.500 mm	2.500 mm	2.500 mm	2.500 mm	2.500 mm	2.500 mm
Height suspension:	E 100 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm
Height 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 suction foot:	HS	depending on design of suction foot (min. 35 mm to max. 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)

Suction feet:	VPL	100	120	140	160	180	200	230
Round:								
	Applications:							
	SFE 200 V	- smooth surface	✓	✓				
	SFE 250 V	- Barrels, containers			✓	✓		
	SFE 320 V	- Stone slabs				✓	✓	
	SFE 360 V	- TV sets						✓
Bellows design:								
	Applications:							
	SFE 200 FBS	- round or vaulted	✓	✓				
	SFE 250 FBS	- surfaces			✓	✓		
		- Barrels, containers	✓	✓	✓	✓		
		- TV sets						
Rectangular:								
	Applications:							
	SFE 85x200	- smooth surface	✓					
	SFE 120x320	- glued boxes		✓	✓			
	SFE 140x320	- small plates			✓			
	SFE 200x320	- furniture parts				✓		
for sacks:								
	Applications:							
	SFS 190x290K	- filled paper and	✓	✓	✓			
	SFS 230x380K	plastic sacks	✓	✓	✓	✓		
	SFS 180x370M	- Indian rubber bales	✓	✓	✓	✓		
Double:								
	Applications:							
	SFD 85x200	- strapped or glued	✓	✓				
	SFD 120x320	cardboard boxes			✓	✓		
	SFD 140x380	- wooden and plastic				✓	✓	
	SFD 200x320	plates						✓
Fourfold:								
	Applications:							
	SFV 115 FBS	- large wooden,	✓	✓	✓			
	SFV 85x200	plastic plates	✓	✓	✓	✓		
	SFV 120x320	- door elements					✓	✓
		- large boxes						
Special:								
	Applications:							
	Pallet grippers	- pallet transport	✓	✓	✓	✓	✓	✓
	Mech. grippers	- containers, slats, etc.	✓	✓	✓	✓	✓	✓
	Pneum. grippers	- e.g. clamping devices	✓	✓	✓	✓	✓	✓
	Special grippers	- special applications	✓	✓	✓	✓	✓	✓

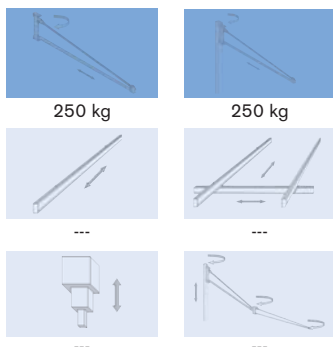
 For the different sizes of the *VacuPowerlift* a variety of different suction feet is available.

Well suited to each other, the suction foot can be easily mounted on all lifting units and guarantee a safe operation.

For the food industry almost every suction foot is also available in all stainless steel.

In addition we offer special designs for applications where the standards do not work and mechanical grippers for the transport of crates and pallets.

Handling:

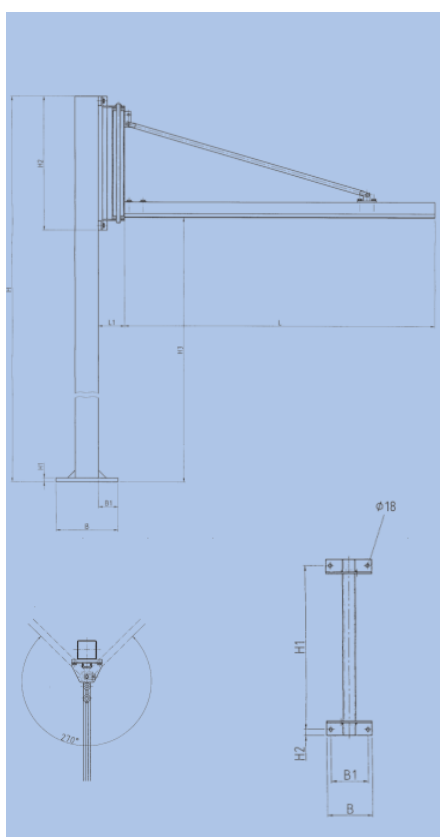


Description:

- ✓ Sturdy and smooth turning console with 270° turning angle
- ✓ Limit stop with rubber buffer
- ✓ Trolleys with big and smooth plastic wheels
- ✓ Steel parts galvanized or powder coated
- ✓ High safety standard according to (CE, UVV)
- ✓ Swivel cranes with higher capacities on request

Applications:

- ✓ Up to 250 kgs capacity
- ✓ With chain hoists
- ✓ With line balancer
- ✓ With tube lifter "VacuPowerlift"



Column slewing jib SSK 125-4.000 for loads of up to 60 kgs



Column slewing jib SSK 160-6.000 for loads of up to 80 kgs



Column slewing jib SSK 125-4.000 for loads of up to 80 kgs



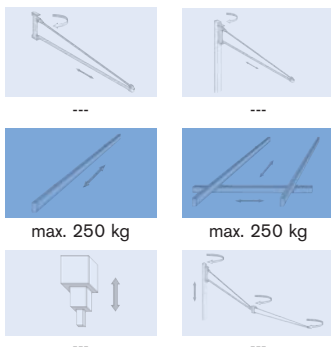
Column slewing jib SSK 125-4.000 for loads of up to 40 kg

Type:	Capacity (kgs)	Jib length (mm)	Swivel area	B1 (mm)	B2 (mm)	B3 (mm)	B4 (mm)	D1 (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1
SSK/WSK																	
85-2.000	125 kg	2.000	270°	110	150	130	400	18	20	3.650	508	40	590	3.120	20	2.000	150
85-3.000	80 kg	3.000	270°	110	150	130	400	18	20	3.650	508	40	590	3.120	20	3.000	150
85-4.000	60 kg	4.000	270°	110	150	130	400	18	20	3.650	508	40	590	3.120	20	4.000	150
125-2.000	200 kg	2.000	270°	110	150	175	500	18	20	3.715	600	40	680	3.100	20	2.000	150
125-3.000	125 kg	3.000	270°	110	150	175	500	18	20	3.715	600	40	680	3.100	20	3.000	150
125-4.000	80 kg	4.000	270°	110	150	175	500	18	20	3.715	600	40	680	3.100	20	4.000	150
125-5.000	60 kg	5.000	270°	110	150	175	500	18	20	3.715	600	40	680	3.100	20	5.000	150
160-3.000	250 kg	3.000	270°	110	150	175	500	18	20	3.715	600	40	680	3.100	20	3.000	150
160-4.000	150 kg	4.000	270°	110	150	175	500	18	20	3.715	600	40	680	3.100	20	4.000	150
160-5.000	100 kg	5.000	270°	110	150	175	500	18	20	3.715	600	40	680	3.100	20	5.000	150
160-6.000	80 kg	6.000	270°	110	150	175	500	18	20	3.715	600	40	680	3.100	20	6.000	150

SSK = Column slewing jib

WSK = Wall slewing jib

Handling:



Description:

- ✓ Sturdy and smooth suspension track systems made of aluminium profiles
- ✓ Available as one-track rail or one-track or two-track system
- ✓ Trolleys with big and smooth wheels
- ✓ Bridge cart in smooth aluminium construction design
- ✓ High safety standard according to (CE, UVV)

Applications:

- ✓ Track lengths of up to 30.000 mm
- ✓ Width of up to 8.000 mm
- ✓ For wide working areas
- ✓ Up to 250 kgs capacity
- ✓ With chain hoists or line balancer
- ✓ With tube lifter VacuPowerlift



Suspension track system with free-standing portal construction. Work area: 10.000 x 4.000 mm



Suspension track system with double bridge and ceiling suspension. Work area: 18.000 x 5.000 mm



Suspension track system with beam suspension. Work area: 10.000 x 8.000 mm



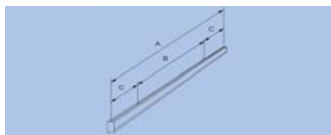
Suspension track system with ceiling suspension and double bridge. Work area: 8.000 x 5.000 mm



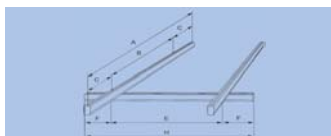
Suspension track system with free-standing portal construction. Work area: 22.000 x 5.000 mm



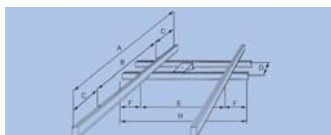
Suspension track system with double bridge and ceiling suspension. Work area: 32.000 x 5.000 mm



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



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



Two-track system:						Suspension distance (mm)								
Profile:	A (max)	C (max)	H (max)	F (max)	D	E=	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000
AP 85	8.000	300	8.000	300	ca. 250	250	200	150	80	50	25	---	---	
AP 125	8.000	325	8.000	325	ca. 300	300	300	300	280	180	130	80	40	40
AP 160	8.000	350	8.000	350	ca. 350	600	600	600	600	450	300	200	150	150

Innovation and know-how in vacuum technology!

VacuHandling

The series **VacuBoy**, **VacuGiant** and **VacuCoil** were developed for the handling of dense, plate-shaped materials like steel and aluminium plates, plastic plates and the transport of coils and split strips. The lifters are available in horizontal, swivel and turnable design up to a max. load of 15.000 kgs. All lifters are in accordance with the national and international safety regulations and are supplied with CE labels.



This series, particularly developed for the handling of wooden boards and planks, allows to lift work pieces of several meters length without problems and just a single operator. No matter if the surfaces are smooth or rough, if the work pieces have cracks or are even porous - the **VacuWood** / **VacuPoro** lifters are suitable for almost any handling task and guarantees an absolutely safe and gentle transport.



VacuTools

Fezer offers you an innovative and wide range of vacuum components. From miniature suction cups to suction plates with capacities of up to 1500 kgs, vacuum pumps in electric and pneumatic design. Control valves and electric and electronic underpressure switches, all from the same source. **Fezer** also offers complete systems for robot applications and linear drives.



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