

2.10 Personal protective clothing

When operating the device, always wear safety shoes. Suitable safety clothing must be worn when transporting dangerous goods.

3 Technical data

For technical data, see type labels resp. separate operating instructions in the Appendix to the operating instructions and on the cover sheet.



The carrying capacity information and other notes on the drawing or on the cover sheet must be taken into account.

3.1 Types of suction feet

The suction feet are designed by Fezer in accordance with the material to be transported by the customer. If other optional suction feet are used, this should be coordinated with Fa. Fezer, otherwise the company can accept no liability with regard to operating safety.

The following types of suction feet are used:

Suction feet	Type designation
Individual suction feet	Round suction foot, rectangular suction foot, sack-type suction foot
Double suction feet	SFD 85x200, SFD 120x340, SFD 140x380
Quadruple suction feet	SFV 115 FBS, SFV 85x200, SFV 120x320

3.2 Temperature limits

Material for sealing the suction plates	Temperature limits
Buna N	- 20°C - +80°C
Sponge rubber	- 40°C - +70°C
Cellular rubber	- 30°C - +110°C
Elastomere	up to + 100°C
HO rubber	- 25°C - + 70°C

Depending on the material used for the suction plates, there are various temperature limits for the workpieces to be transported. For the material of the existing suction plate seals see the spare parts lists in the Appendix to the operating instructions.

4 Construction and functional description

1. Vacuum generator

2. Lift unit without control unit

- 2.1 Turning head
- 2.2 Lift hose
- 2.3 Strainer

3. Control unit

- 3.1 with rocker lever
- 3.2 with turning handle

4. Suction feet

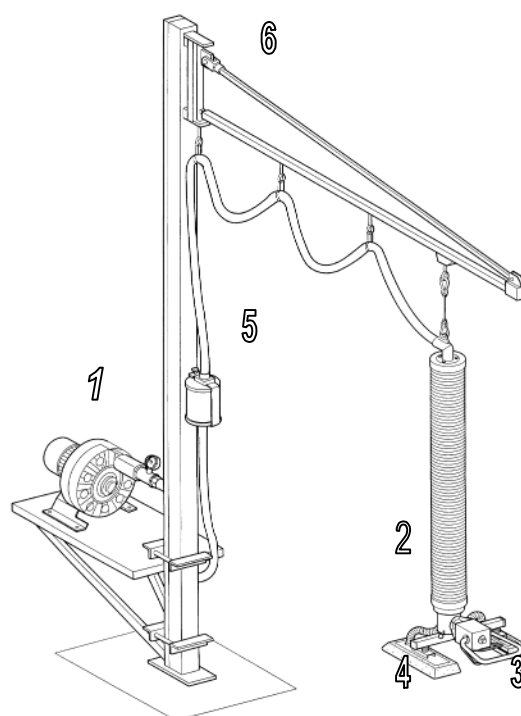
- 4.1 Individual suction feet
- 4.2 Double suction feet
- 4.3 Quadruple suction feet

5. Accessory parts

- 5.1 Vacuum hoses and filters
- 5.2 Adaption options

6. Crane systems

- 6.1 Wall-mounted swivel cranes
- 6.2 Column-type swivel cranes
- 6.3 Monorail suspensions systems



4.1 Vacuum generator

The vacuum generator is either a vacuum fan or a vacuum pump. It generates the necessary underpressure to "hold" and „lift“ the load. It can either stand separately on the floor or be attached to a column-type swivel crane or on the wall with the aid of a bracket. In addition, the vacuum fan is equipped with an additional sound absorber on the exhaust side.

4.2 Lift unit without control unit

Turning head

The turning head is the link between the feeder hose and the lift hose. It has an integrated check valve. ^ Time to set down the load in the case of a sudden failure of the power supply to the vacuum generator. The turning head itself also serves as a suspension point for the hose lift from the crane.

Lift hose

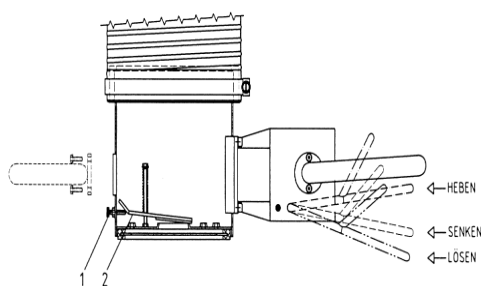
The lift hose transfers the vacuum to the suction foot and makes the lifting movement possible.

Strainer

The suction feet are screwed onto the strainer. Next to them is an adjusting screw that regulates a stop plug to bring about a predefined state of suspension.

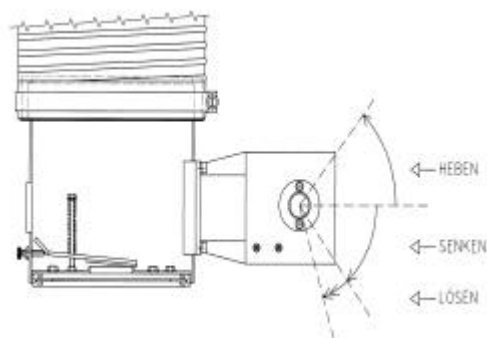
4.3 Control unit

Control unit with rocker lever



The control unit is used to start the functions „Suck“, „Lift, Loosen“, „Suspend with load“. A rocker lever is used to switch between the functions. Depending on the position of the lever, a predefined vacuum is generated in the lift hose. If the rocker lever is at the very top (on block), the load is lifted. If it is at the very bottom, it is on „Aerate“ (the load is released by the suction foot). In between these two are various height levels (fetching the load – transferring the load from Level 1 to Level 2).

Control unit with turning handle



The control unit is used to start the functions „Suck“, „Lift, Loosen“, „Suspend with load“. A turning handle makes it possible to switch between these functions. Depending on its position, a predefined vacuum is generated in the lift hose (see diagram below). In between are various levels (fetching the load – transferring the load from Level 1 to Level 2).