

# Rail Clamps Type BSZ



**PINTSCH BUBENZER**  
is certified according to  
DIN EN ISO 9001:2008



Safe



Tried and Trusted



High Performance



Robust



Easy Maintenance

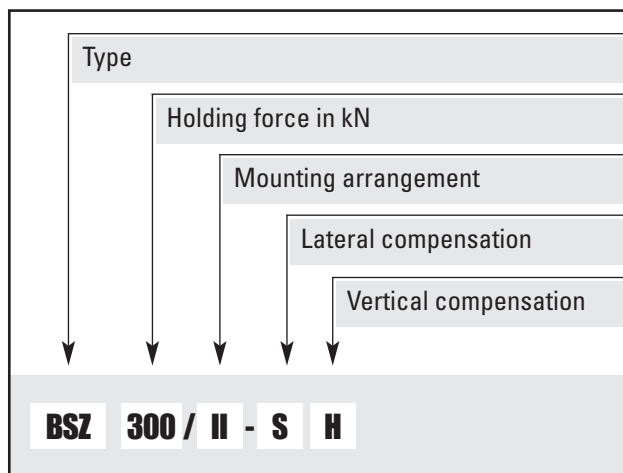
# Description BSZ



## Main Features

- Rail clamp spring applied
- Apply time: Continuously adjustable 3-12 seconds
- Rail clamp hydraulically released
- Hand pump for emergency release
- Integrated hydraulic power unit, ready piped and wired to terminal box
- Limit switch release control, mechanical or proximity type
- Connection by flange on end face (BSZ/II)
- Connection by flange on top (BSZ/III)
- Static applications
- Holding forces 100-400 kN
- Lateral compensation  $\pm 10$  mm

## Ordering Example



## Options

- Special mounting dimensions
- Holding forces up to 1000 kN
- Lateral compensation  $\pm 25$  mm
- Vertical compensation  $\pm 25$  mm
- Buffer connection
- Rail sweeper
- Operation of several rail clamps by one hydraulic power unit
- Enclosures of stainless steel

## Applications

As storm brake on all rail mounted equipment, e. g. cranes, stackers, reclaimers etc. Particularly when the rail is mounted above dock level or a rail channel is provided

## Operating Restrictions

Rail clamps of this range are tested both mechanically and hydraulically and are set to nominal force. This setting can only be changed by the manufacturer. Operating conditions other than described in this brochure require the manufacturer's approval and may influence the function of the rail clamp and its components



### Please Note

We supply a detailed operating manual with every order. Nevertheless, we would point out that rail clamps are only as safe as the servicing and maintenance performed while they are in operation. The guarantee for the correct functioning of our rail clamps is therefore only valid if the user adheres to the German DIN standard 15019 part 1, table 5. Do not use rail clamps as dynamic brakes.



### PINTSCH BUBENZER Service

This includes the installation and commissioning on site by PINTSCH BUBENZER service engineers, if required. Drawings as DWG/DXF files for your engineering department are available upon request.

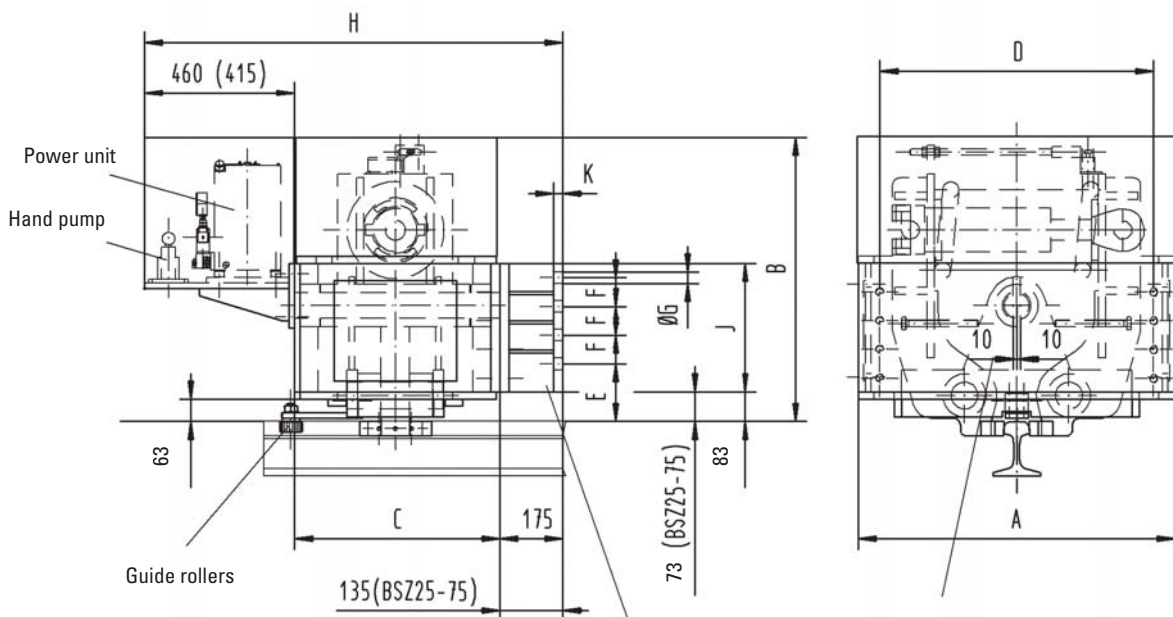
# Rail Clamp BSZ/II

Dimensions and technical data



Rev. 10-08

Connection in combination with a flange on the end face



Lateral compensation  $\pm 10$  mm

Dimensions D,E,F,G,n and J by customer data or by table

n = Quantity of fixing holes

Type	Holding force	All dimensions in mm Alterations reserved without notice										
	kN	A	B	C	D	E	F	G	H	J	n	K
BSZ 25/II	25	650	745	295	500	120	105	17	820	305	6	15
BSZ 50/II	50	650	745	295	500	120	105	21	820	305	6	20
BSZ 75/II	75	650	745	295	500	120	105	21	820	305	6	20
BSZ 80/II	80	690	755	470	500	133	100	21	1060	415	8	25
BSZ 100/II	100	690	755	470	500	133	100	26	1060	415	8	25
BSZ 120/II	120	690	755	470	500	133	100	26	1060	415	8	25
BSZ 140/II	140	690	755	470	500	133	100	30	1060	415	8	25
BSZ 150/II	150	880	790	575	800	120	90	30	1170	358	8	25
BSZ 200/II	200	880	790	575	800	120	90	33	1210	358	8	25
BSZ 250/II	250	880	790	575	800	120	90	33	1210	358	8	25
BSZ 300/II	300	880	790	575	800	120	90	33	1210	358	8	25
BSZ 400/II	400	880	790	575	800	120	90	33	1210	358	8	25

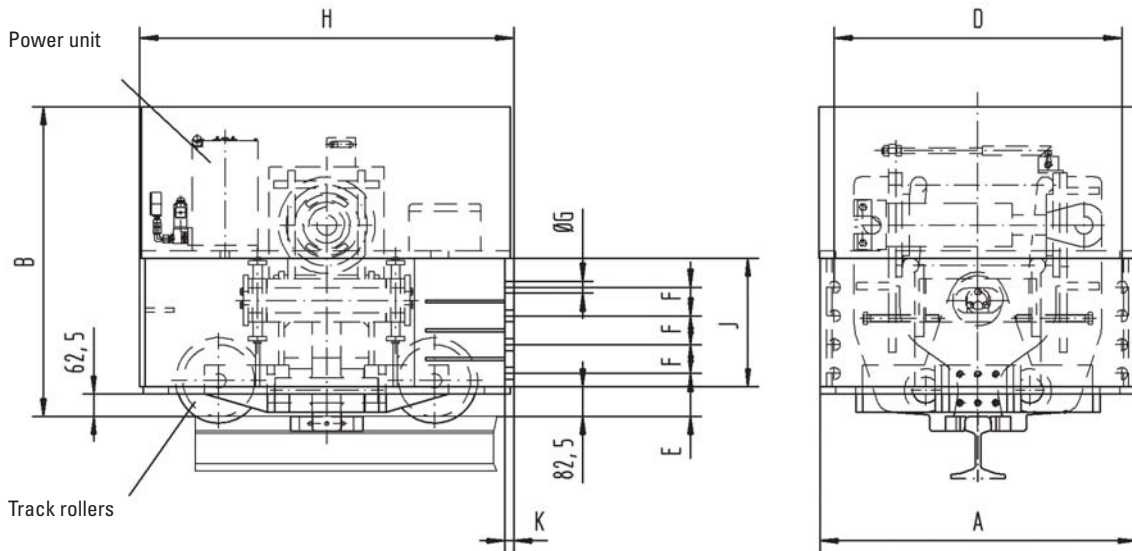
# Rail Clamp BSZ/II-SH

Dimensions and technical data



Rev. 10-08

Connection in combination with a flange on the end face



Vertical compensation  $\pm 25$  mm  
Lateral compensation  $\pm 25$  mm

Dimensions D,E,F,G,n and J  
by customer data or by table

n = Quantity of fixing holes  
m = ca. weight in kg

All dimensions in mm  
Alterations reserved without notice

Type	Holding force	A	B	D	E	F	G	H	J	n	K	m
	kN											
BSZ 80/II	80	880	865	800	120	80	26	1040	368	8	25	780
BSZ 100/II	100	880	865	800	120	80	26	1040	368	8	25	820
BSZ 120/II	120	880	865	800	120	80	30	1040	368	8	25	830
BSZ 140/II	140	880	865	800	120	80	30	1040	368	8	25	830
BSZ 150/II	150	880	910	800	120	90	33	1115	368	8	25	1000
BSZ 200/II	200	880	910	800	120	90	33	1115	368	8	25	1060
BSZ 250/II	250	880	910	800	120	90	33	1115	368	8	25	1060
BSZ 300/II	300	880	910	800	120	90	33	1115	368	8	25	1060
BSZ 400/II	400	880	910	800	120	90	33	1115	368	8	25	1100

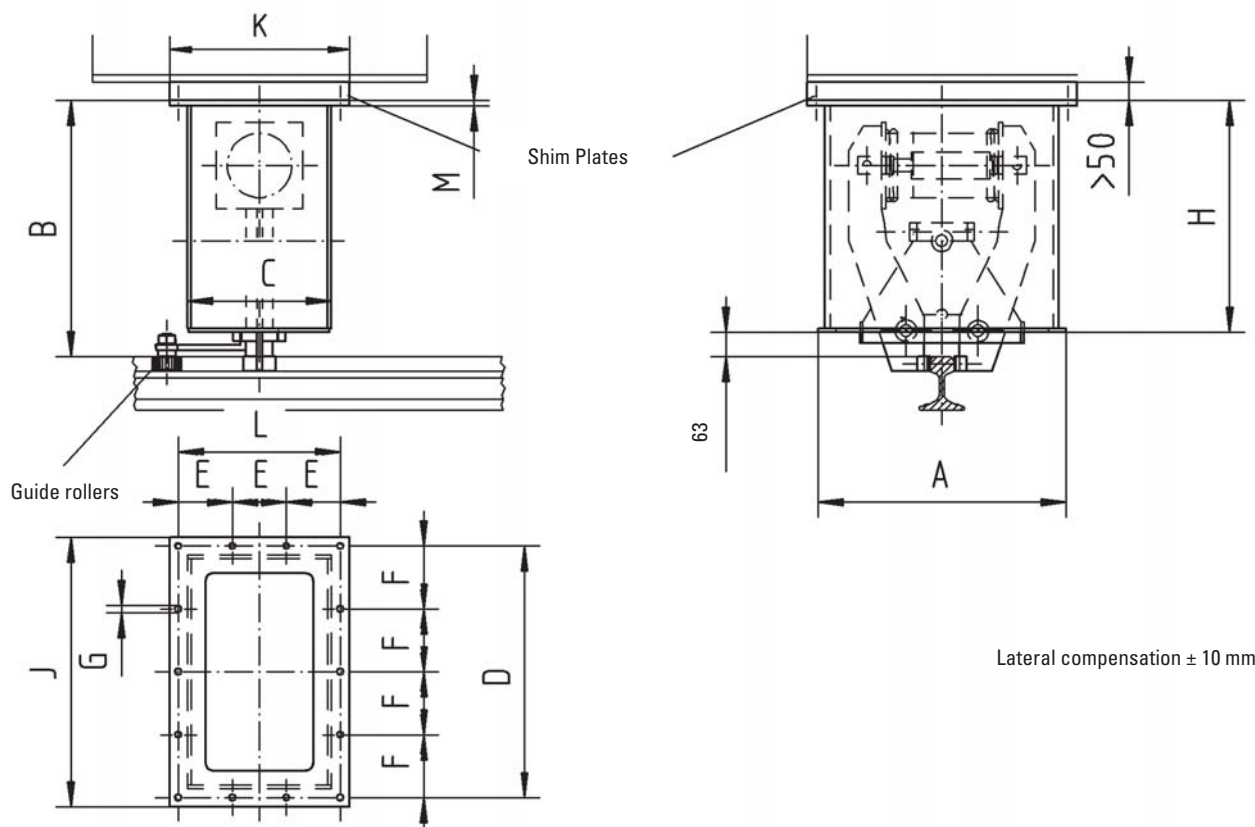
# Rail Clamp BSZ/III

Dimensions and technical data



Rev. 10-08

Connection in combination with a flange on top



Lateral compensation  $\pm 10$  mm

Holding force

All dimensions in mm  
Alterations reserved without notice

Type	kN	A	B	C	D	E	F	G	H	J	K	L	M
BSZ 25/III	25	640	698	390	700	150	175	22	635	750	500	450	20
BSZ 50/III	50	640	698	390	700	150	175	22	635	750	500	450	20
BSZ 75/III	75	640	698	390	700	150	175	22	635	750	500	450	20
BSZ 80/III	80	600	750	600	660	100	110	26	687	720	660	600	20
BSZ 100/III	100	600	750	600	660	100	110	26	687	720	660	600	20
BSZ 120/III	120	600	750	600	660	100	110	26	687	720	660	600	25
BSZ 140/III	140	600	750	600	660	100	110	26	687	720	660	600	25
BSZ 150/III	150	900	823	720	950	162	190	26	760	1040	900	810	30
BSZ 200/III	200	900	823	720	950	162	190	26	760	1040	900	810	30
BSZ 250/III	250	900	823	720	950	162	190	26	760	1040	900	810	30
BSZ 300/III	300	900	823	720	950	162	190	26	760	1040	900	810	30
BSZ 400/III	400	900	823	720	950	162	190	26	760	1040	900	810	30

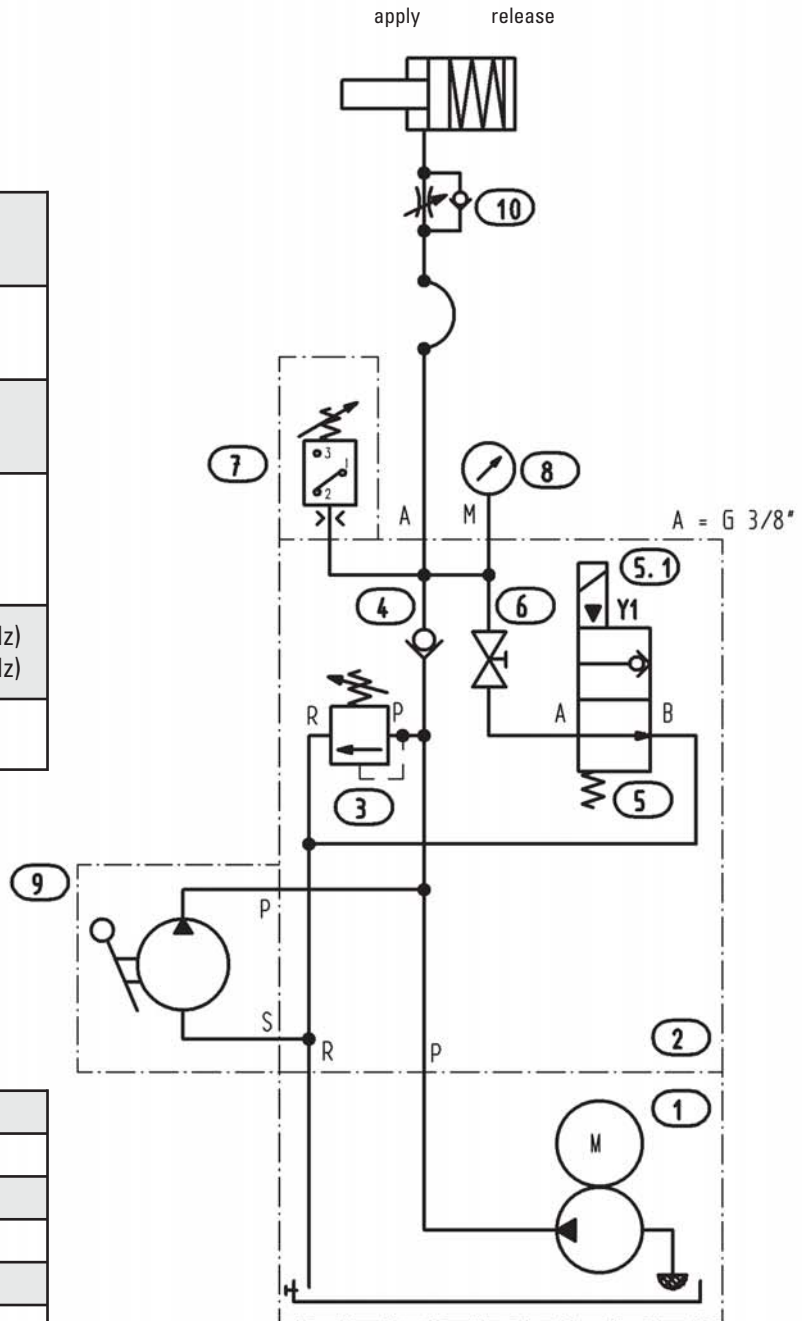
# Rail Clamp BSZ

Hydraulic diagram



Rev. 09-02

Q:	4,25 l/min (50 Hz) 5,1 l/min (60 Hz)
p:	250 bar (50Hz) 210 bar (60Hz)
P:	1,1 kW (50 Hz) 1,3 kW (60Hz)
Control voltage:	24 V DC 110 V AC 230 V AC
Supply voltage:	360-440 V AC (50Hz) 380-480 V AC (60Hz)
Tank capacity:	5 Litres



Pos	Qty	Designation
1	1	Hydraulic power unit
2	1	Manifold block
3	1	Pressure valve
4	1	Check valve
5	1	2/2 valve
5.1	1	Plug
6	1	Cock
7	1	Pressure switch
8	1	Pressure gauge
9	1	Hand pump
10	1	Throttle check valve

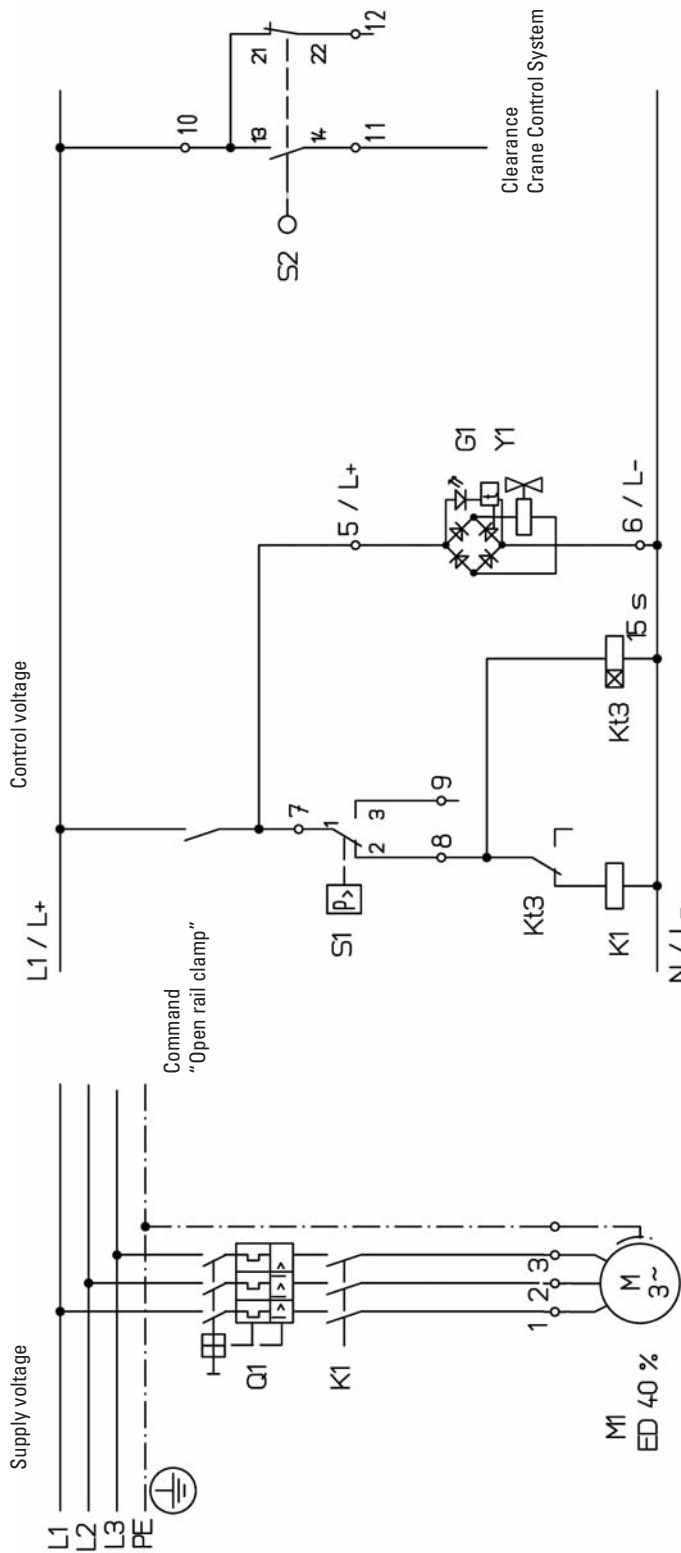
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# Rail Clamp BSZ

Electric diagram



Rev. 09-02



PINTSCH BUBENZER scope of supply	
M1	Hydraulic motor 3 Ph, ED = 40%
Y1	Solenoid valve
G1	Plug
S1	Pressure switch
S2	Limit switch release control

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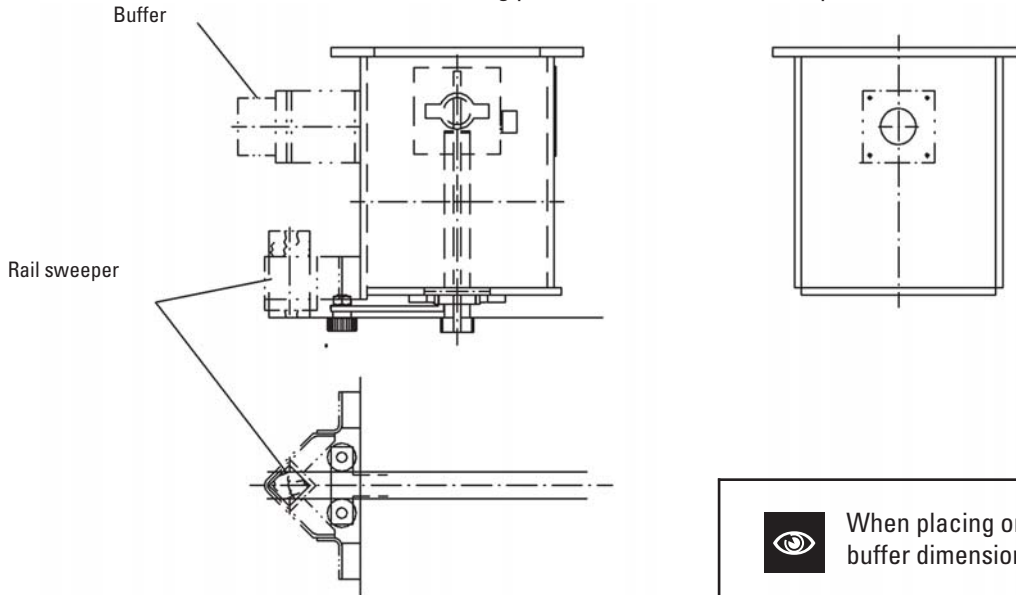
# Rail Clamp BSZ

Mounting and rail position



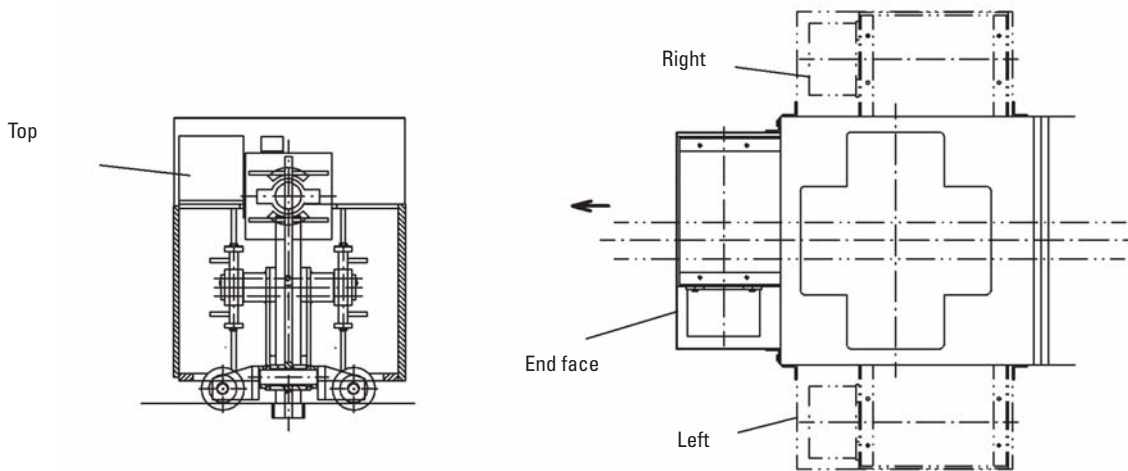
Rev. 09-02

## Mounting position buffer and rail sweeper

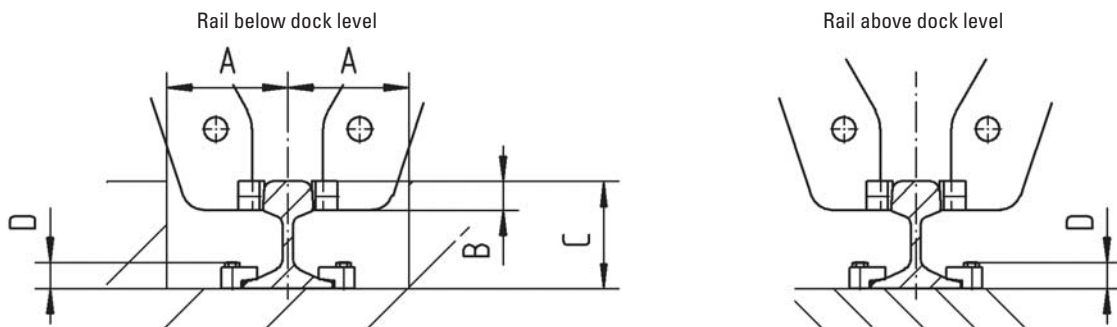


When placing order please indicate buffer dimensions and buffer force.

## Mounting position hydraulic power unit



## Rail arrangement



When placing order please indicate dimensions A, B, C and D.

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