PINTSCH BUBENZER

DISC BRAKES WITH THRUSTER BUEL®

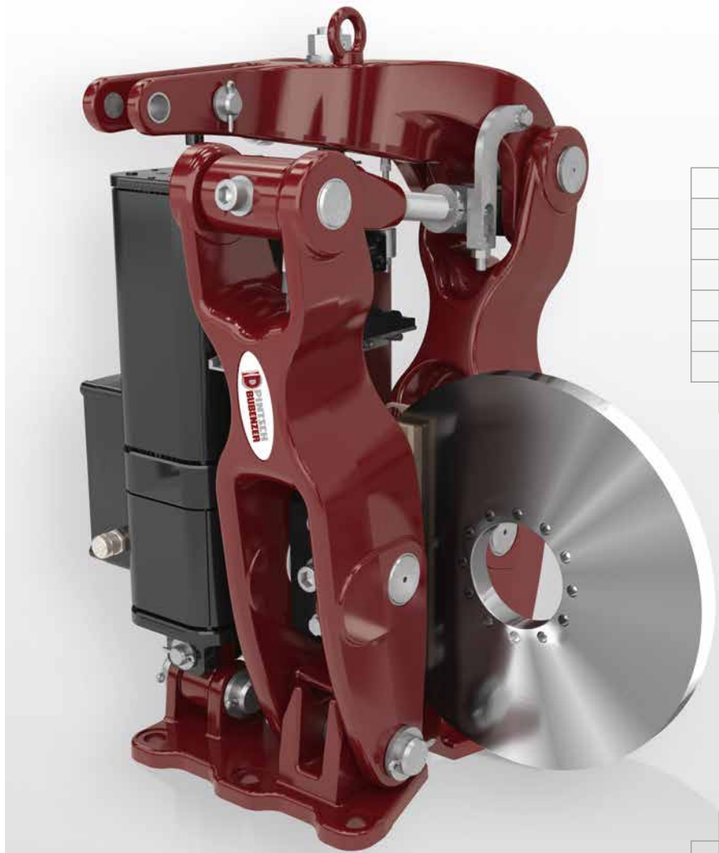
BRAKING UNLIMITED

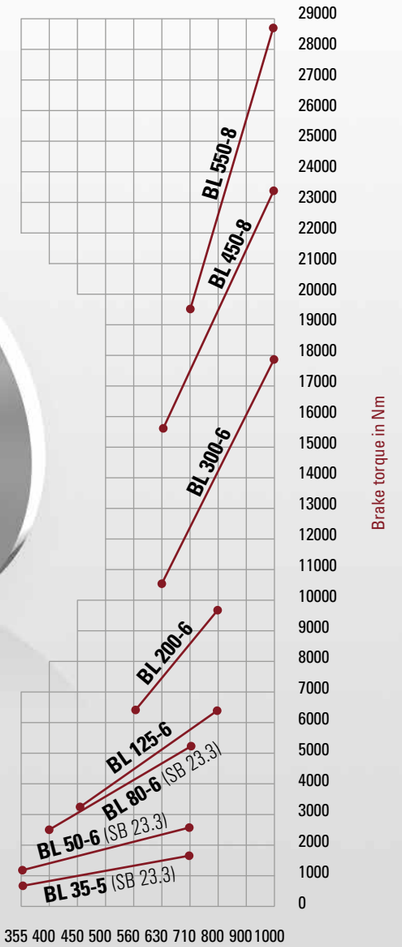
Made in Germany

DISC BRAKES WITH THRUSTER BUEL®

PINTSCH BUBENZER

Disc Brake SB 28.3 / SB 23.3 with BUEL®





PINTSCH BUBENZER
is certified according to
DIN EN ISO 9001:2015

Easy Maintenance | **High Performance** | **Reliable** | **Robust Design** | **Self-Centering**

Description SB 28.3 / SB 23.3 with BUEL®

Main Features

- Limit switch release control
- Manual release lever with or without lock
- Self-centering of brake arms by cam disc and roller
- Automatic wear compensator
- Sintered linings for high friction speeds
- Continuously adjustable brake spring with torque scale and wear bushing enclosed in a spring tube
- Stainless steel pins and spindles
- W-execution (special anti-corrosion protection)
- Maintenance-free bushings in all hinge points
- Symmetric design
- Parallel air gap when brake is released (no tipping of the brake shoes)

Options

- Limit switch wear control
- Limit switch manual release
- Monitoring systems (e.g. VSR/CMB)
- Brake disc with hub or coupling

BUEL® Thrusters, Technical Data

Thruster Type	Power (W)	Curr. (A) at 400 V	Weight (kg)
BL 35-5	350	0,6	16
BL 50-6	450	0,7	16
BL 80-6	600	1,3	21
BL 125-6	650	1,4	24
BL 200-6	800	1,5	24
BL 300-6	900	1,6	33
BL 450-8	1200	2,0	33
BL 550-8	1250	2,1	33

Protection: max. 1.5 times of nominal current

Ordering Example

- Brake type
- Disc diameter
- Disc thickness
- Thruster type

SB 28.3 - 500 x 30 - BL 450-8

Please Note

We supply a detailed operating manual with every order. Nevertheless, we would point out that brakes are only as safe as the servicing and maintenance performed while they are in operation. The guarantee for the correct functioning of our brakes is only valid if the user adheres to the German DIN standard 15434 part 2 (drum and disc brakes, servicing and maintenance in operation), or to comparable standards in his own country.

PINTSCH BUBENZER Service

This includes the verification of the brake selection, if required. A detailed questionnaire is provided for this purpose. Installation and commissioning on-site by PINTSCH BUBENZER service engineers is possible. Drawings as DWG/DXF files for your engineering department are available upon request.

Disc Brake SB 28.3 with BUEL®

Dimensions and technical data

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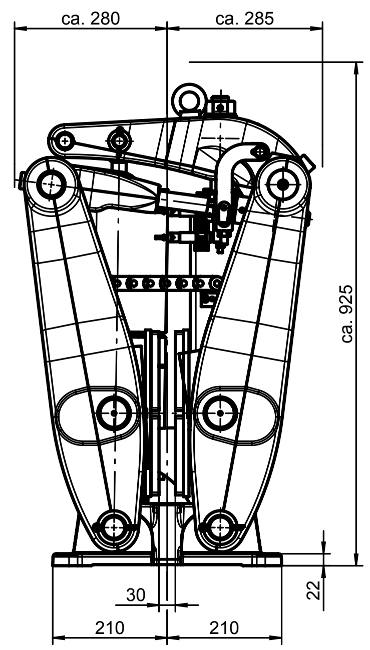
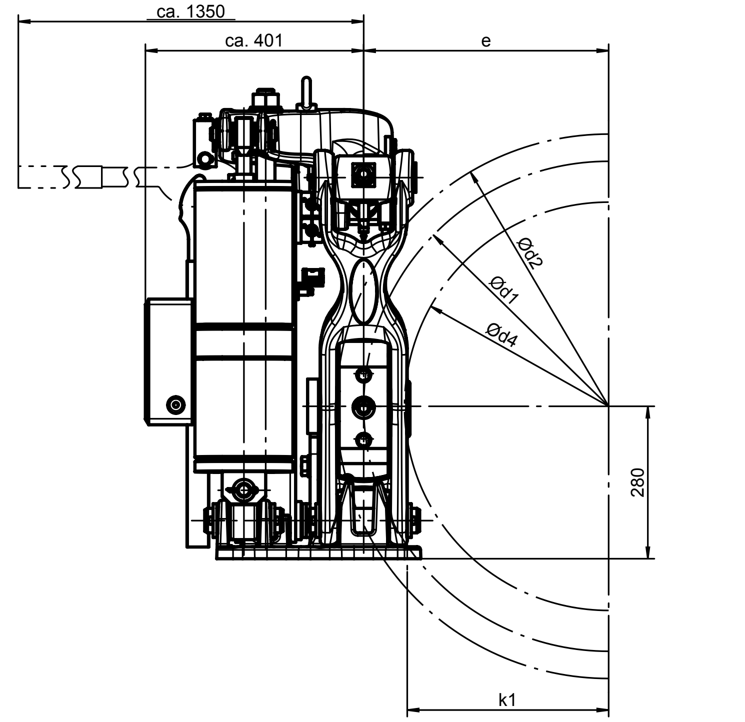
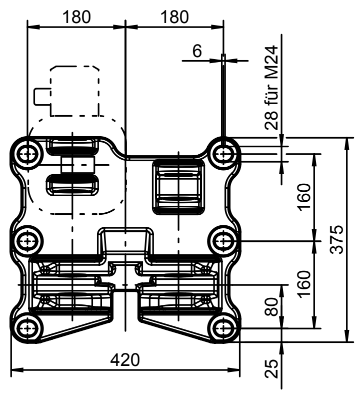
MB-001235 d







*) Average static friction factor of standard material combination

**) Only for BL 125-6 with brake disc-Ø 450 mm

The friction coefficient is subject to fluctuations depending on operational-, material- and ambient-conditions! This must be considered during the selection!

All dimensions in mm
Alterations reserved without notice

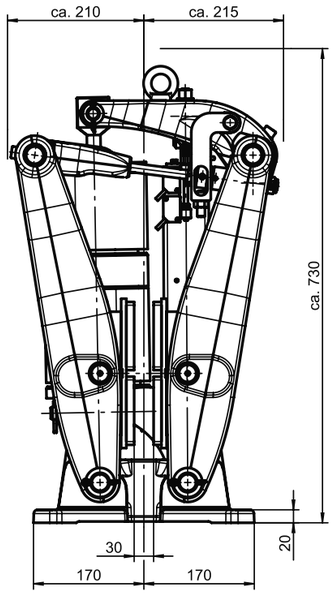
For crane brake layout use safety factors documented in the FEM 1.001, Section 1

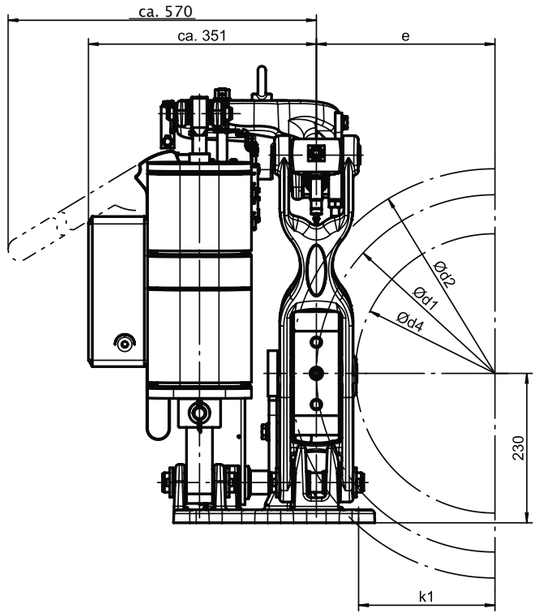
Weight without thruster: ca. 270 kg			Thruster type		BL 125-6 (Weight: 24 kg)			BL 200-6 (Weight: 24 kg)			BL 300-6 (Weight: 33 kg)			BL 450-8 (Weight: 33 kg)			BL 550-8 (Weight: 33 kg)		
			Contact force in N		22500			35000			50000			65000			80000		
Disc-Ø d_2	Friction-Ø d_1	Max. hub-Ø d_4	e	k_1	*$M_{Brmax.}$ (Nm) at $\mu = 0,4$	*$M_{Brmin.}$ (Nm) at $\mu = 0,4$	*$M_{Brmin.}$ (% from $M_{Brmax.}$)	*$M_{Brmax.}$ (Nm) at $\mu = 0,4$	*$M_{Brmin.}$ (Nm) at $\mu = 0,4$	*$M_{Brmin.}$ (% from $M_{Brmax.}$)	*$M_{Brmax.}$ (Nm) at $\mu = 0,4$	*$M_{Brmin.}$ (Nm) at $\mu = 0,4$	*$M_{Brmin.}$ (% from $M_{Brmax.}$)	*$M_{Brmax.}$ (Nm) at $\mu = 0,4$	*$M_{Brmin.}$ (Nm) at $\mu = 0,4$	*$M_{Brmin.}$ (% from $M_{Brmax.}$)	*$M_{Brmax.}$ (Nm) at $\mu = 0,4$	*$M_{Brmin.}$ (Nm) at $\mu = 0,4$	*$M_{Brmin.}$ (% from $M_{Brmax.}$)
450	350	175 (200**)	175	95	3150	1575	50												
500	400	225	200	120	3600	1800	50												
560	460	285	230	150	4140	2070	50	6440	3220	50									
630	530	355	265	185	4770	2385	50	7420	3710	50	10600	5830	55						
710	610	435	305	225	5490	2745	50	8540	4270	50	12200	6710	55	15860	7930	50	19520	9760	50
800	700	525	350	270	6300	3150	50	9800	4900	50	14000	7700	55	18200	9100	50	22400	11200	50
900	800	625	400	320							16000	8800	55	20800	10400	50	25600	12800	50
1000	900	725	450	370							18000	9900	55	23400	11700	50	28800	14400	50

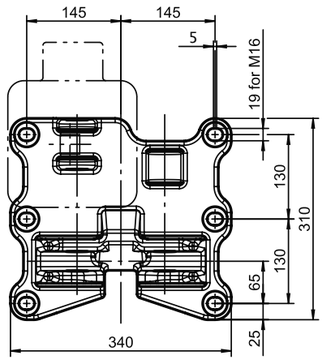
Disc Brake SB 23.3 with BUEL®

Dimensions and technical data

Rev. 03-18
MB-001230 e







*) Average static friction factor of standard material combination

The friction coefficient is subject to fluctuations depending on operational-, material- and ambient-conditions! This must be considered during the selection!

All dimensions in mm
Alterations reserved without notice

For crane brake layout use safety factors documented in the FEM 1.001, Section 1

Weight without thruster: ca. 99 kg			Thruster type		BL 35-5 (Weight: 16 kg)			BL 50-6 (Weight: 16 kg)			BL 80-6 (Weight: 21 kg)		
			Contact force in N		6845			10750			20500		
Disc-Ø d_2	Friction-Ø d_1	Max. hub-Ø d_4	e	k_1	*$M_{Brmax.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (% from $M_{Brmax.}$)	*$M_{Brmax.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (% from $M_{Brmax.}$)	*$M_{Brmax.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (% from $M_{Brmax.}$)
355	275	145	137,5	72,5	755	378	50						
400	320	190	160	95	875	438	50	1375	825	60	2625	1313	50
450	370	240	185	120	1015	508	50	1590	954	60	3035	1518	50
500	420	290	210	145	1150	575	50	1805	1083	60	3445	1723	50
560	480	350	240	175	1315	658	50	2065	1239	60	3935	1968	50
630	550	420	275	210	1505	753	50	2365	1419	60	4510	2255	50
710	630	500	315	250	1725	863	50	2710	1626	60	5165	2583	50

Disc Brake SB 16 with BUEL®

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DIN EN ISO 9001:2015

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Description SB 16 with BUEL®

Main Features

- Limit switch release control
- Manual release lever with or without lock
- Self-centering of brake arms by cam disc and roller
- Automatic wear compensator
- Sintered linings for high friction speeds
- Organic, non-asbestos linings for low friction speeds
- Continuously adjustable brake spring with torque scale and wear bushing enclosed in a spring tube
- Stainless steel pins and spindles
- Maintenance-free bushings in all hinge points
- Right or left-hand design
- W-execution (special anti-corrosion protection)

Options

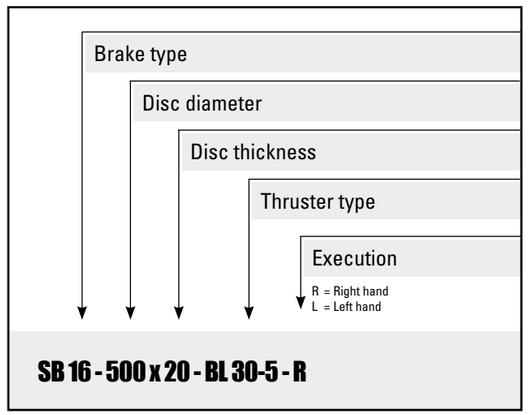
- Limit switch wear control
- Limit switch manual release
- Monitoring systems (e.g. VSR/CMB)
- Brake disc with hub or coupling

BUEL® Thrusters, Technical Data

Thruster Type	Power (W)	Curr. (A) at 400 V	Weight (kg)
BL 22-5	150	0,4	11
BL 30-5	160	0,4	13
BL 35-5	350	0,6	16

Protection: max. 1.5 times of nominal current

Ordering Example



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Disc Brake SB 16 with BUEL®

Dimensions and technical data

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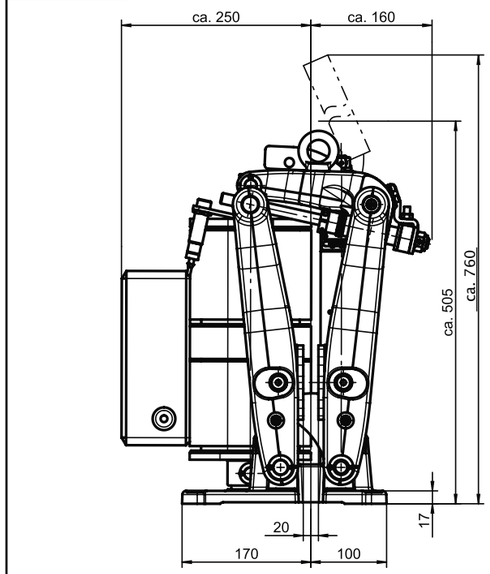

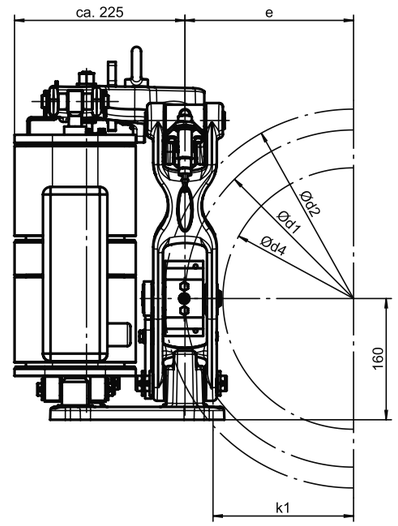

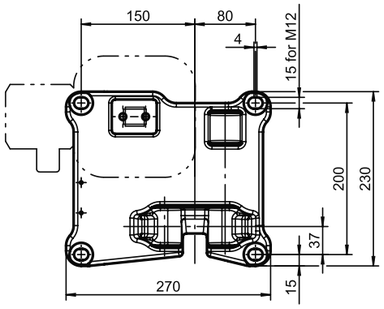

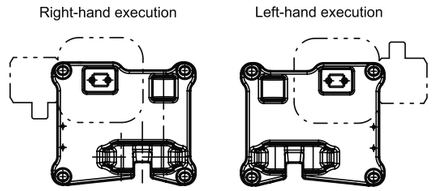

*) Average static friction factor of standard material combination

All dimensions in mm
Alterations reserved without notice

For crane brake layout use safety factors documented in the FEM 1.001, Section 1

The friction coefficient is subject to fluctuations depending on operational-, material- and ambient-conditions! This must be considered during the selection!

Weight without thruster: ca. 37 kg			Thruster type		BL 22-5 (Weight: 11 kg)			BL 30-5 (Weight: 13 kg)			BL 35-5 (Weight: 16 kg)		
			Contact force in N		2610			3400			5000 (on request)		
Disc-Ø d_2	Friction-Ø d_1	Max. hub-Ø d_4	e	k_1	*$M_{Brmax.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (% from $M_{Brmax.}$)	*$M_{Brmax.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (% from $M_{Brmax.}$)	*$M_{Brmax.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (Nm) at μ = 0,4	*$M_{Brmin.}$ (% from $M_{Brmax.}$)
250	195	95	97,5	60,5	205	103	50	265	133	50	390	195	50
280	225	125	112,5	75,5	235	118	50	305	153	50	450	225	50
315	260	160	130	93	270	135	50	355	178	50	520	260	50
355	300	200	150	113	315	158	50	410	205	50	600	300	50
400	345	245	172,5	135,5	360	180	50	470	235	50	690	345	50
450	395	295	197,5	160,5	410	205	50	535	268	50	790	395	50
500	445	345	222,5	185,5	465	233	50	605	303	50	890	445	50

Notes

3rd edition

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