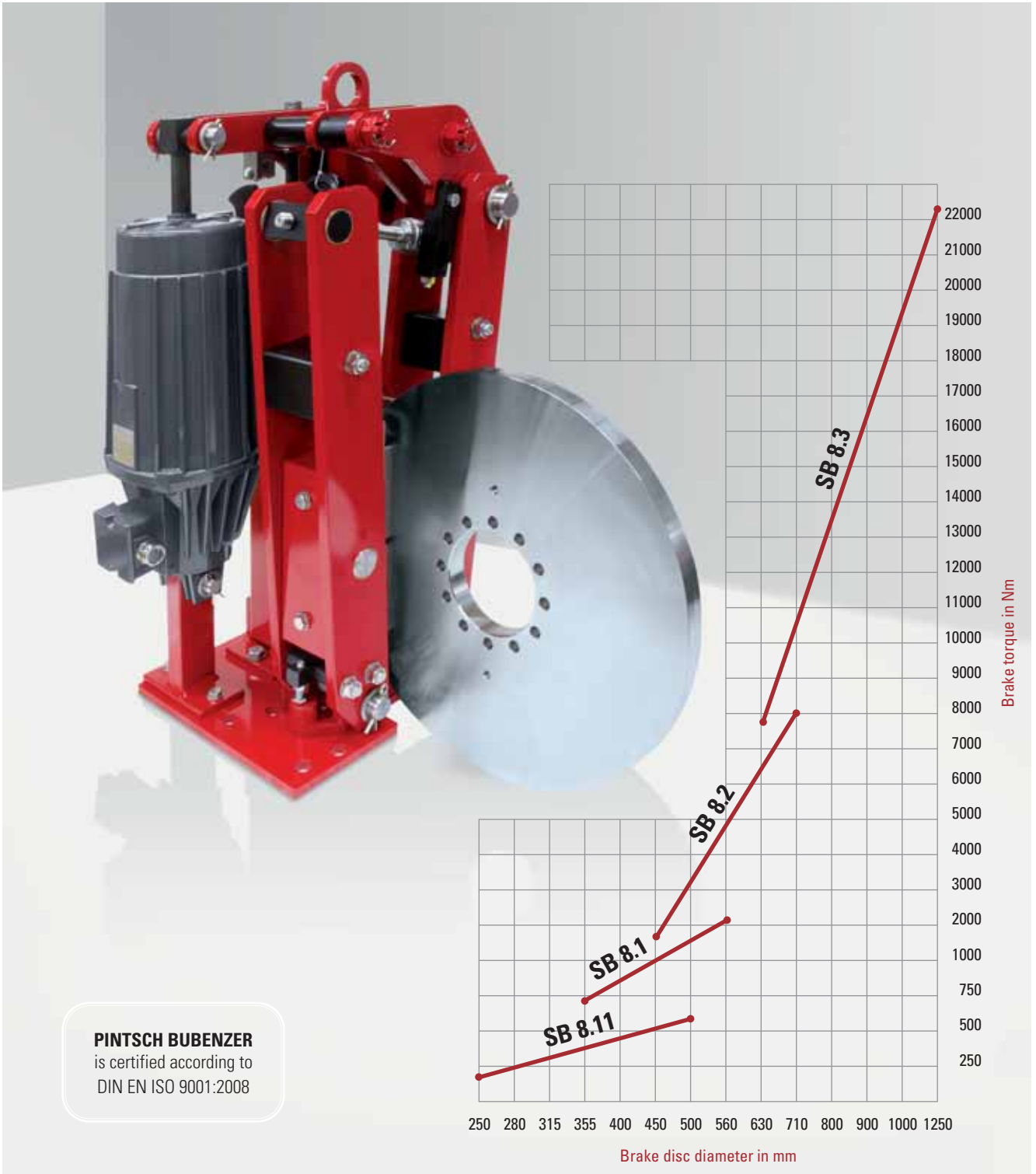




Thruster Disc Brakes SB 8 Series




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




Reliable



Compact Design



Robust Construction



Easy Maintenance

Description SB 8



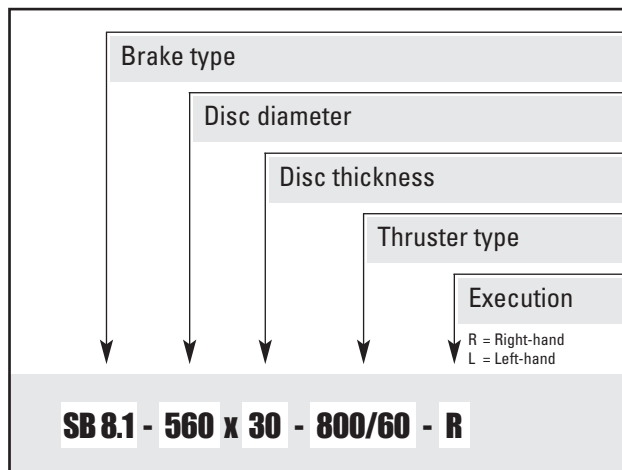
Main Features

- Compact dimensions
- Ideal for belt conveyors in combination with long stroke thrusters
- 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

Options

- Automatic wear compensator
- Limit switch release control
- Limit switch wear control
- Limit switch manual release
- Manual release lever with or without lock
- Monitoring systems (e.g. VSR/CMB)
- Brake discs with hubs or couplings

Ordering Example



Thrusters, Technical Data

Thruster Type	Power (W)	Curr. (A) at 400 V	Weight (kg)
EB 120/40	130	0,4	7,5
EB 220/50	160	0,4	9,3
EB 300/50	140	0,3	10
EB 500/60	200	0,4	13
EB 800/60	260	0,5	19
EB 1250/60	380	0,6	21
EB 2000/60	500	0,7	33
EB 3000/60	550	0,9	39

Data supplied by thruster manufacturer, please take higher start current into consideration, fuses to be minimum 2A



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.

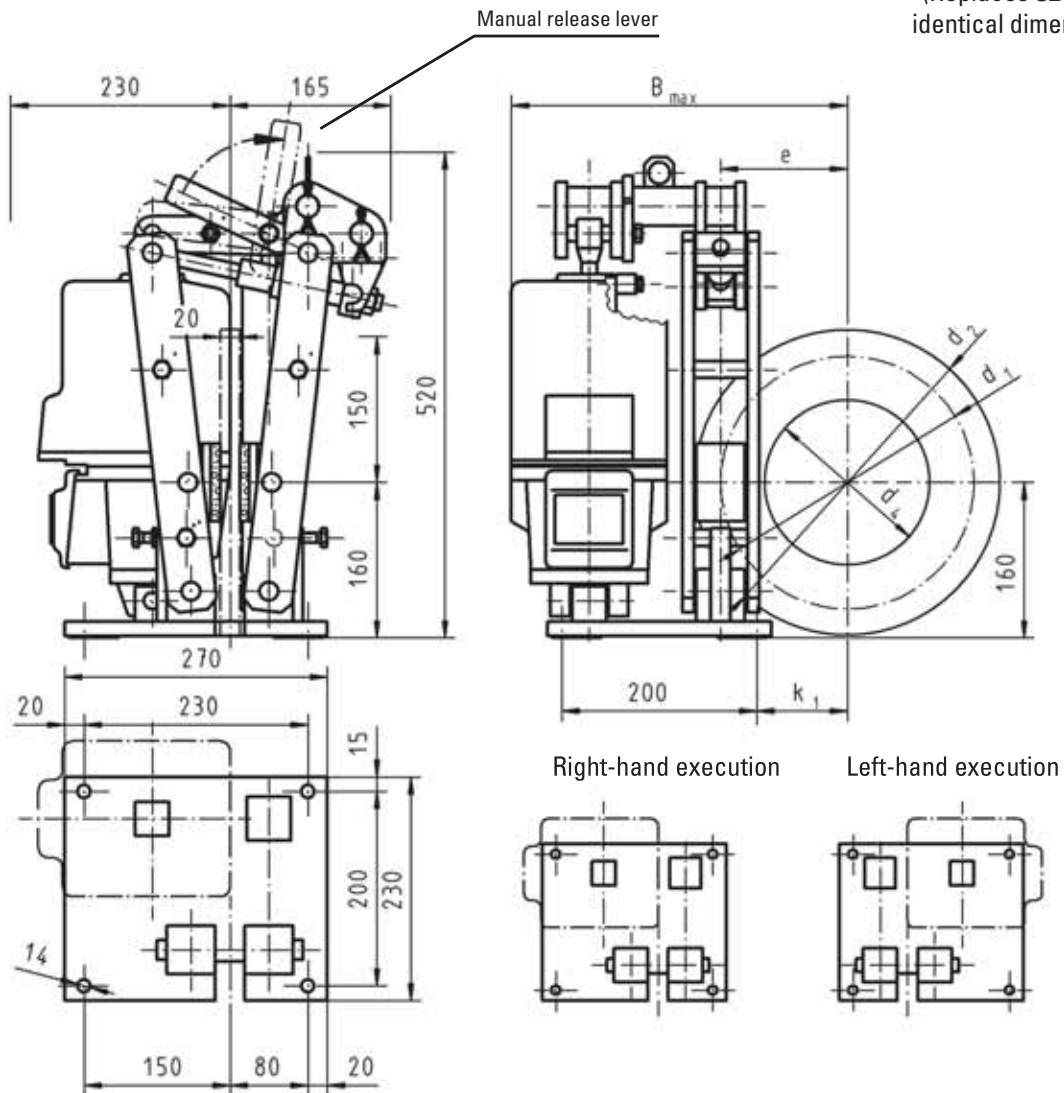
Disc Brake SB 8.11

Dimensions and technical data



Rev. 10-08

(Replaces **SB 14.11**, identical dimensions)



*) Average friction factor of standard material combination

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

All dimensions in mm
Alterations reserved without notice

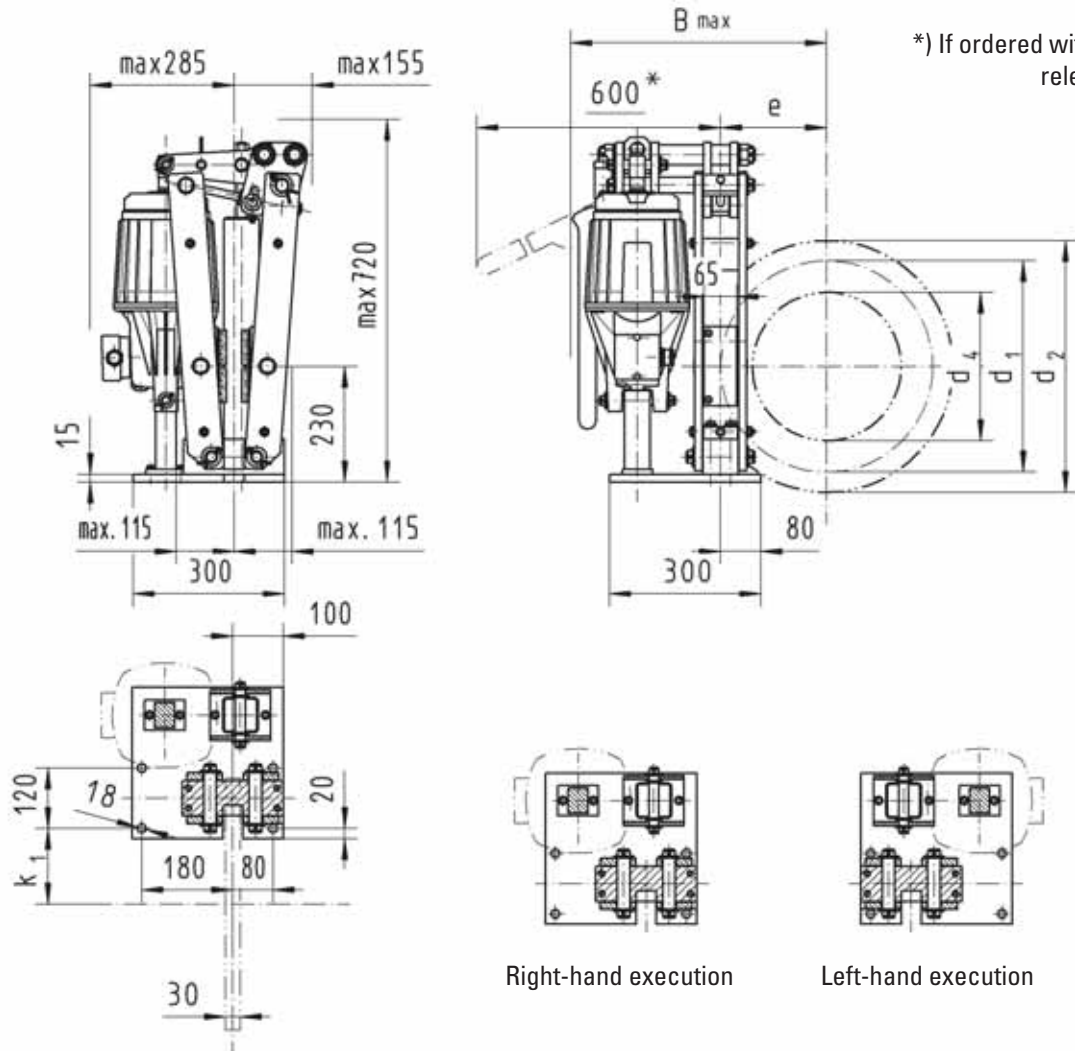
Weight: 37 kg w/o thruster		Thruster type				EB 120/40	EB 220/50	EB 300/50	Ed 23/5	Ed 30/5
		Contact force in N				1550	2500	3400	2500	3400
Disc Ø	Friction Ø					Brake torque			Friction factor	
		d ₂	d ₁	d ₄	e	k ₁	B _{max}	M _{Br} in Nm	μ = 0,4*	
250	195	105	98	61	311	120	200	270	200	270
280	225	135	113	76	326	140	230	310	230	310
315	260	170	130	93	343	160	260	355	260	355
355	300	210	150	113	363	185	300	410	300	410
400	345	255	173	136	386	215	345	470	345	470
450	395	305	197	160	411	245	395	540	395	540
500	445	355	222	185	436	275	445	610	445	610

Disc Brake SB 8.1

Dimensions and technical data



Rev. 01-08



*) Average friction factor of standard material combination

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

All dimensions in mm
Alterations reserved without notice

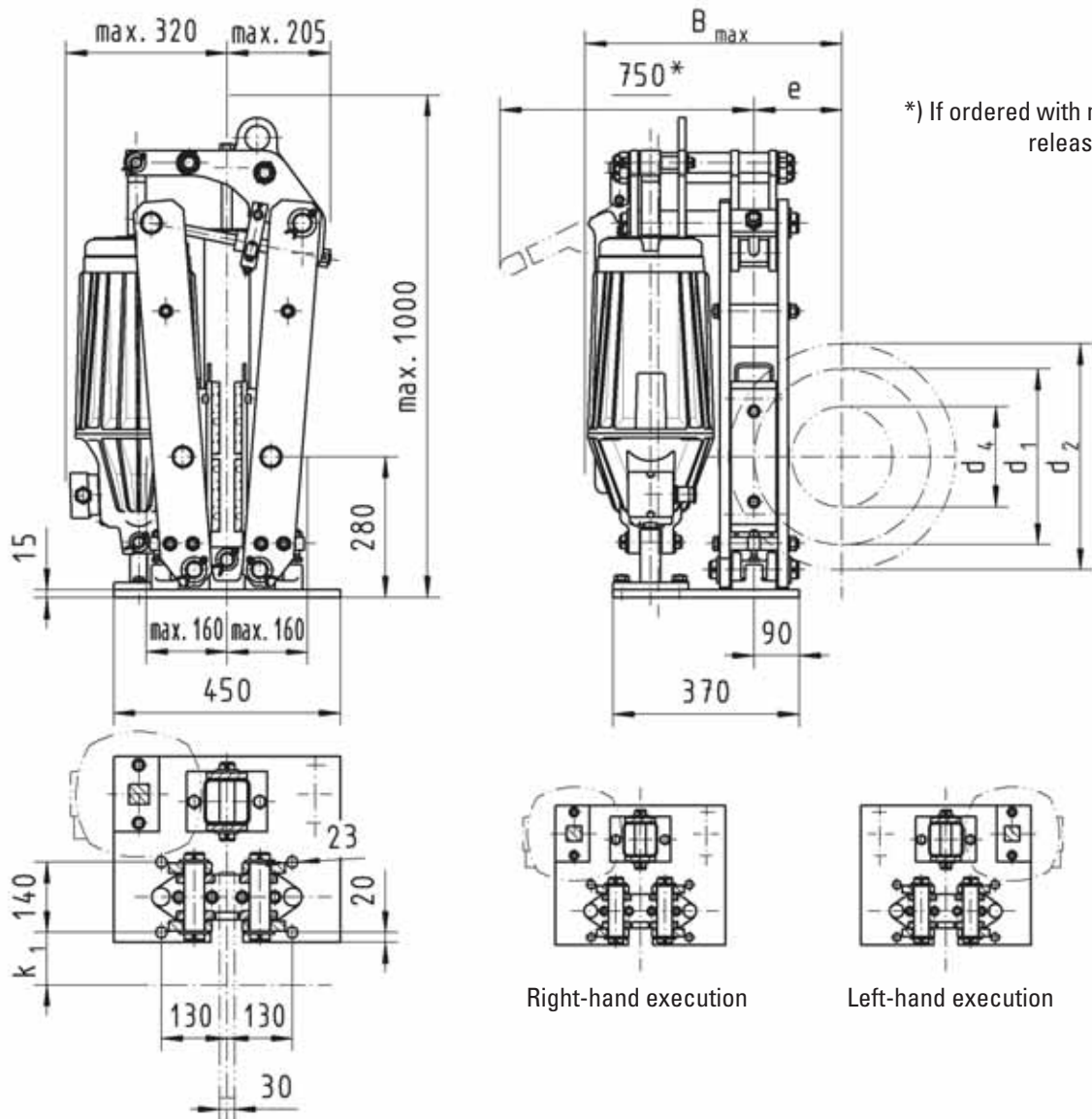
Weight: 78 kg w/o thruster		Thruster type				EB 300/50	EB 500/60 EB 500/120	EB 800/60 EB 800/120
		Contact force in N				5950	10700	16950
Disc Ø	Friction Ø					Brake torque M _{Br} in Nm		Friction factor μ = 0,4*
d ₂	d ₁	d ₄	e	k ₁	Bmax			
355	275	160	138	78	430	655	1180	1860
400	320	205	160	100	457	760	1370	2160
450	370	255	185	125	482	880	1580	2500
500	420	305	210	150	507	1000	1800	2840
560	480	365	240	180	537	1140	2050	3250

Disc Brake SB 8.2

Dimensions and technical data



Rev. 12-06



*) If ordered with manual release lever

*) Average friction factor of standard material combination

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

All dimensions in mm
Alterations reserved without notice

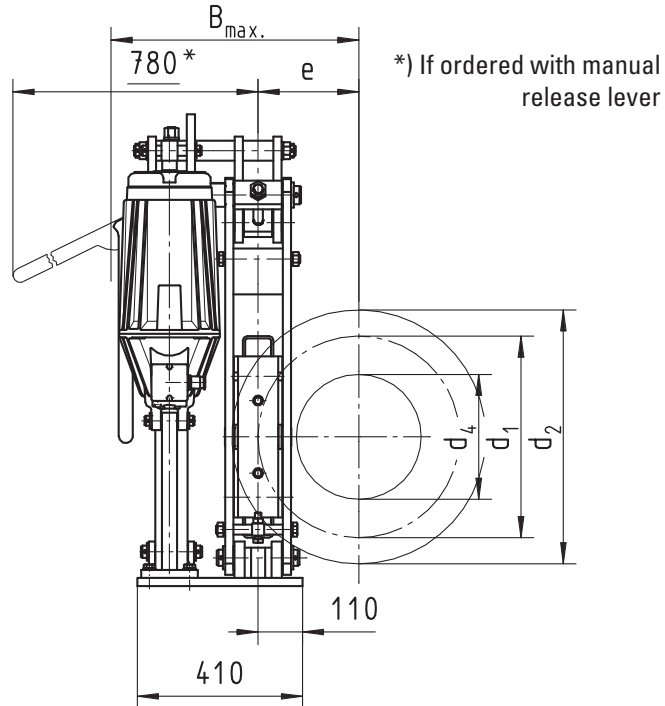
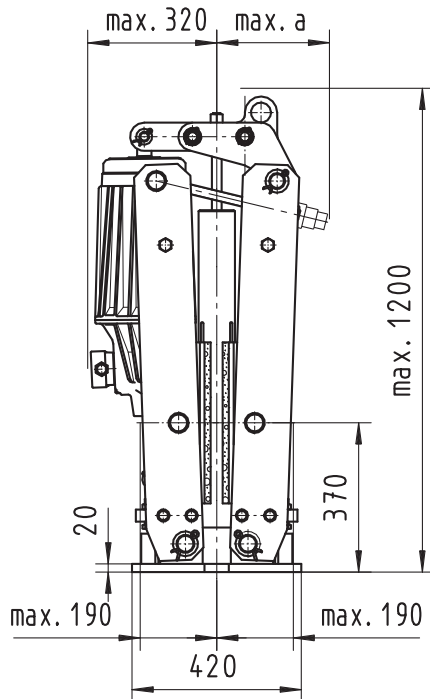
Weight: 180 kg w/o thruster		Thruster type				EB 500/60 EB 500/120	EB 800/60 EB 800/120	EB 1250/60 EB 1250/120	EB 2000/60 EB 2000/120
		Contact force in N				11300	18300	24500	33500
Disc Ø	Friction Ø					Brake torque M_{Br} in Nm		Friction factor $\mu = 0,4^*$	
d_2	d_1	d_4	e	k_1	B_{max}				
450	350	200	175	105	510	1580	2560	3430	4690
500	400	250	200	130	535	1810	2930	3920	5360
560	460	310	230	160	565	2080	3370	4510	6160
630	530	380	265	195	600	2395	3880	5190	7100
710	610	460	305	235	640	2760	4465	5980	8175

Disc Brake SB 8.3

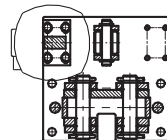
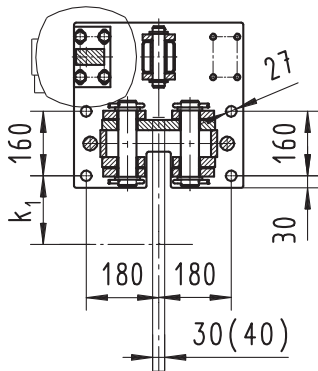
Dimensions and technical data



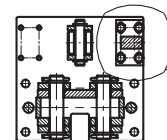
Rev. 06-13



Dimension a: With automatic wear compensator max. 280 mm
without automatic wear compensator max. 220 mm



Right-hand execution



Left-hand execution

*) Average friction factor of standard material combination

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

All dimensions in mm
Alterations reserved without notice

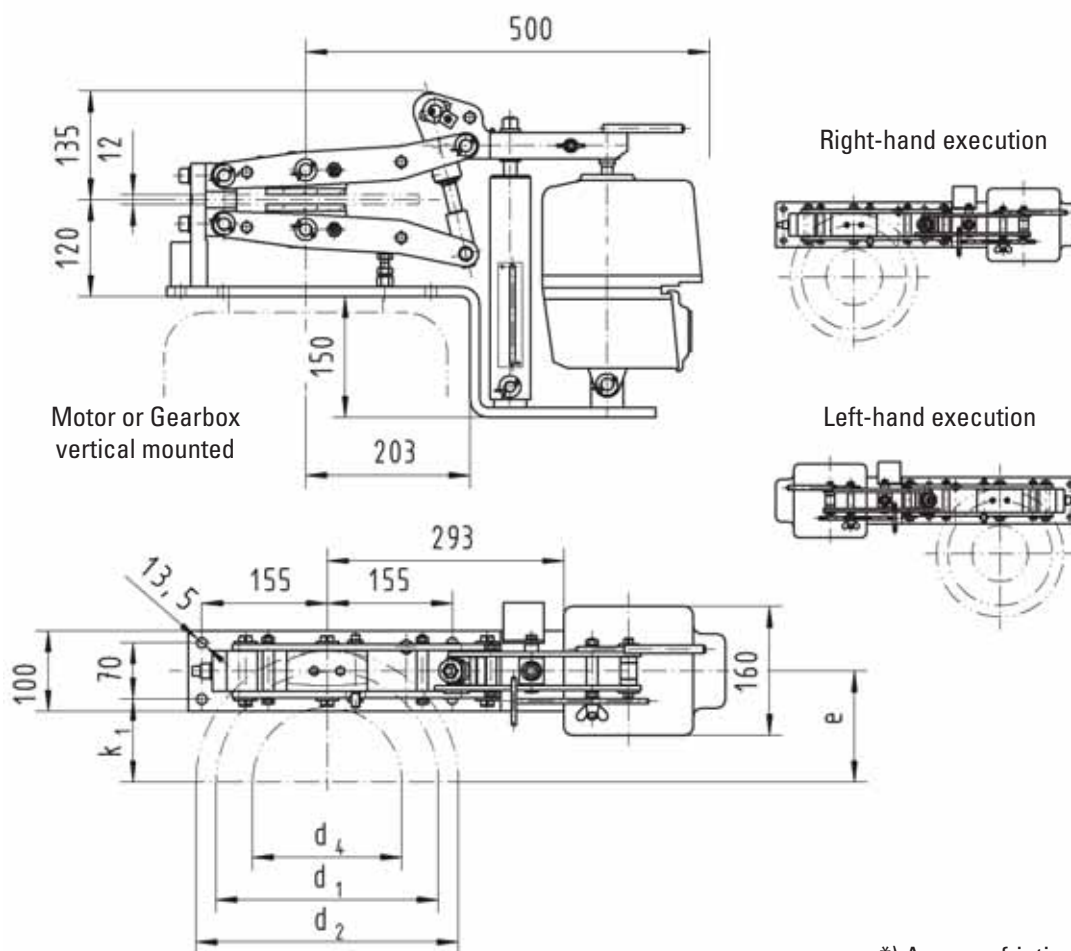
Weight: 285 kg w/o thruster		Thruster type				EB 2000/60 EB 2000/120	EB 3000/60 EB 3000/120
		Contact force in N				37400	50200
Disc Ø	Friction Ø					Brake torque M _{Br} in Nm	Friction factor μ = 0,4*
d ₂	d ₁	d ₄	e	k ₁	B _{max}		
630	500	310	250	170	615	7500	10000
710	580	390	290	210	655	8600	11600
800	670	480	335	255	700	10000	13500
900	770	580	385	305	750	11500	15500
1000	870	680	435	355	800	13000	17500
1250	1120	930	560	480	925	16750	22500

Disc Brake SB 22

Dimensions and technical data



Rev. 12-06



*) Average friction factor of standard material combination

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

All dimensions in mm
Alterations reserved without notice

Weight: 35 kg w/o thruster		Thruster type			Ed 23/5	Ed 23/5bb
		Contact force in N			2450	3150
Disc Ø	Friction Ø	d ₄	e	k ₁	Brake torque M _{Br} in Nm	Friction factor μ = 0,4*
d ₂	d ₁					
200	150	60	75	40	145	190
225	175	85	88	53	170	220
250	200	110	100	65	200	250
280	230	140	115	80	225	290
315	265	175	133	98	260	335
355	305	215	153	118	300	385
400	350	260	175	140	345	440
450	400	310	200	165	390	500
500	450	360	225	190	440	565