



WELCOME TO DELLNER BUBENZER



DELLNER BUBENZER is a global leader in the design and manufacture of braking systems. Our unrivaled braking equipment offers customized stop-action solutions for a wide variety of industries from sea to sky, and everything in between.

For decades DELLNER BUBENZER products have been recognized worldwide as innovative braking solutions that are precision engineered to meet the highest quality standards.



SB 16

The SB series stands out due to its extremely fast closing times and its variability. It is used in a wide range of industries around the world due to its versatility, ease of application and user-friendly handling.

TORQUE: 890 Nm

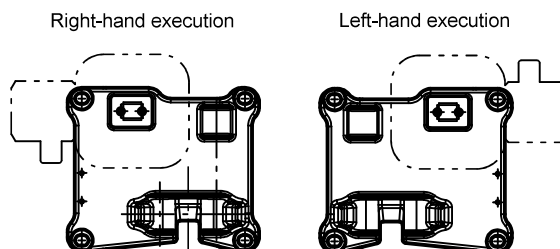
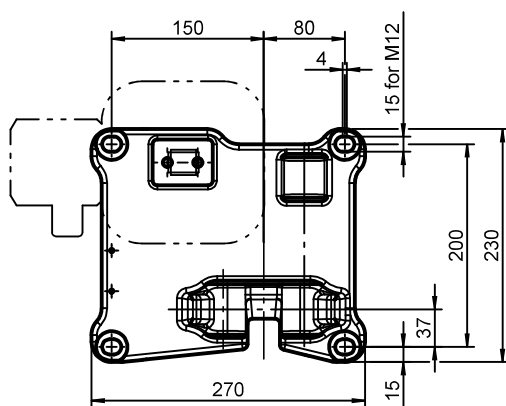
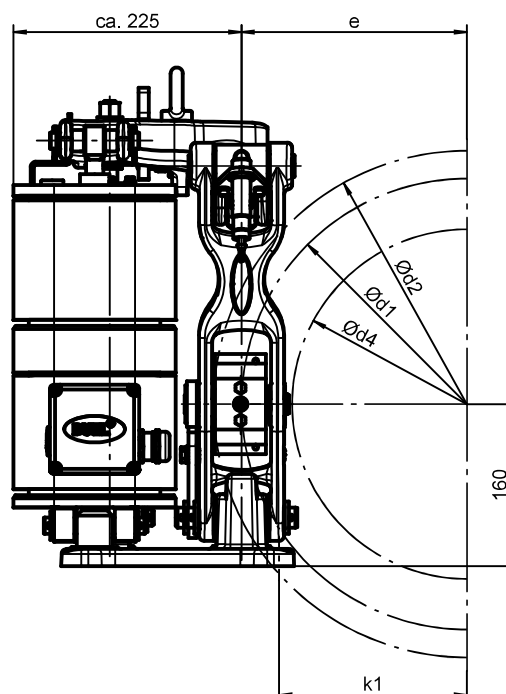
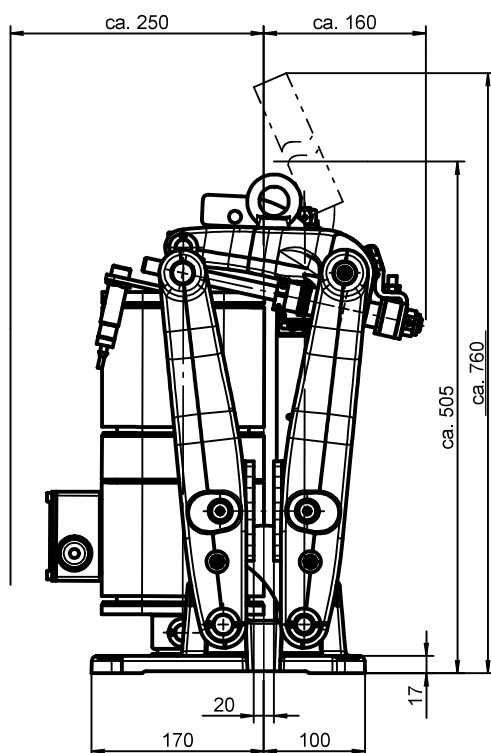
CONTACT FORCE: 5000 N

MAIN FEATURES:

- Proximity switch
- Manual release lever with or without lock
- Manual release lever latching or non latching
- 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:

- Proximity switch pad wear
- Proximity switch hand release
- Monitoring systems (e.g. VSR/CMB)
- Brake disc with hub or coupling
- Special painting for increased corrosion protection



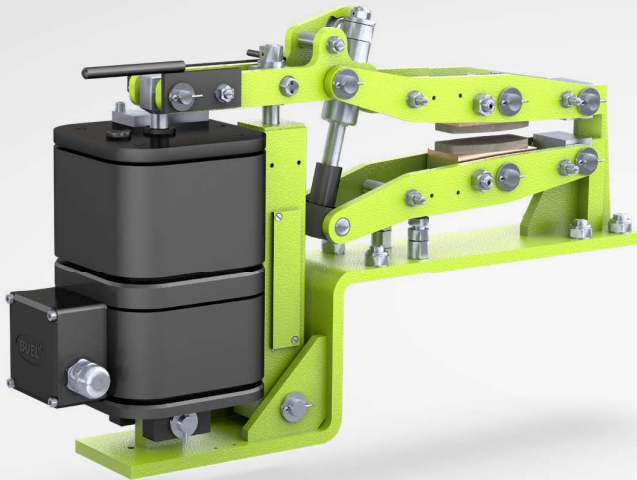
*) Average static coefficient of friction
for standard material combination

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

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

All dimensions in mm
Alterations reserved without notice

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		
Disc-Ø d ₂	Friction-Ø d ₁	Max. hub-Ø d ₄	e	k ₁	*M _{Brm ax.} (Nm) at μ = 0,4	*M _{Brm in.} (Nm) at μ = 0,4	*M _{Brm in.} (% from M _{Brm ax.})	*M _{Brm ax.} (Nm) at μ = 0,4	*M _{Brm in.} (Nm) at μ = 0,4	*M _{Brm in.} (% from M _{Brm ax.})	*M _{Brm ax.} (Nm) at μ = 0,4	*M _{Brm in.} (Nm) at μ = 0,4	*M _{Brm in.} (% from M _{Brm ax.})
250	195	85	97,5	60,5	205	103	50	265	133	50	390	195	50
280	225	115	112,5	75,5	235	118	50	305	153	50	450	225	50
315	260	150	130	93	270	135	50	355	178	50	520	260	50
355	300	190	150	113	315	158	50	410	205	50	600	300	50
400	345	235	172,5	135,5	360	180	50	470	235	50	690	345	50
450	395	285	197,5	160,5	410	205	50	535	268	50	790	395	50
500	445	335	222,5	185,5	465	233	50	605	303	50	890	445	50



SB 22

The SB series stands out due to its extremely fast closing times and its variability. It is used in a wide range of industries around the world due to its versatility, ease of application and user-friendly handling.

TORQUE: 565 Nm

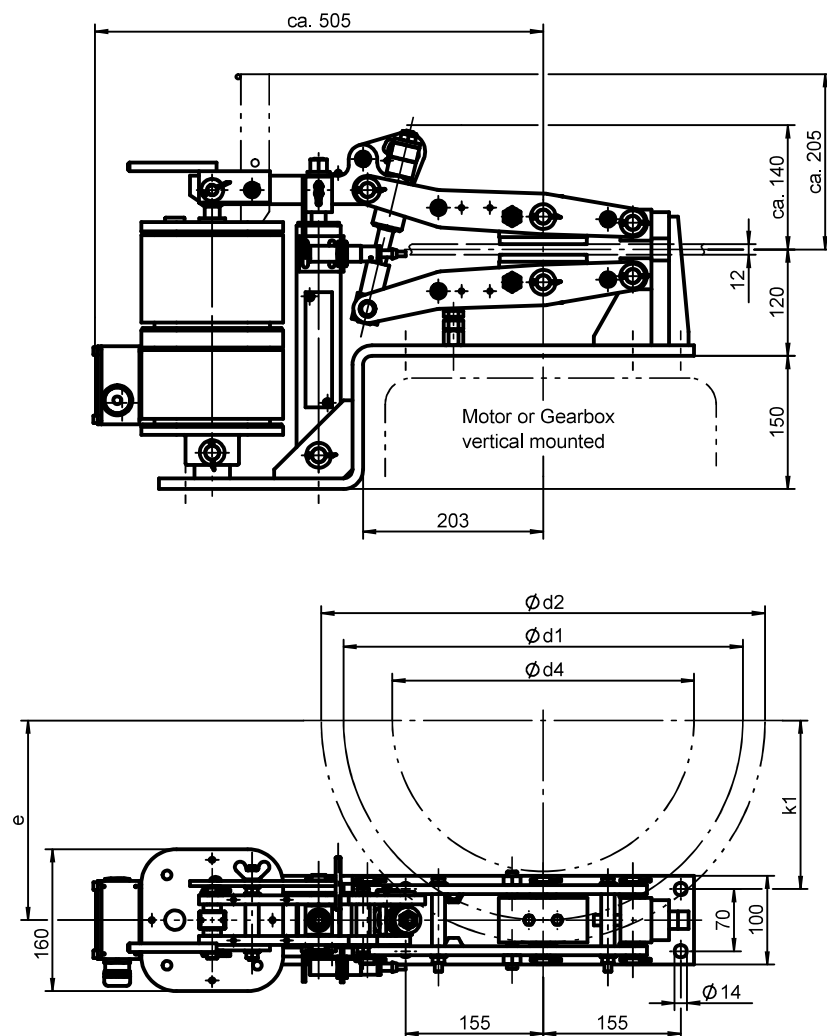
CONTACT FORCE: 3140 N

MAIN FEATURES:

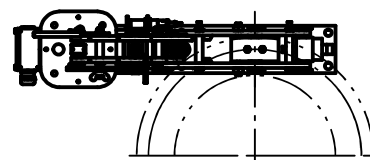
- Compact dimensions
- Sintered linings for high friction speeds
- Organic, non-asbestos linings for low friction speeds
- Continuously adjustable brake spring with torque scale and wear bushing enclosed in a spring tube
- Stainless steel pins and spindles
- Maintenance-free bushings in all hinge points
- Right or left-hand design

OPTIONS:

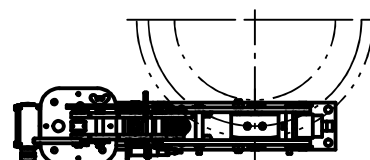
- Automatic wear compensator
- Proximity switch pad wear
- Proximity switch hand release
- Manual release lever with or without lock
- Monitoring systems (e.g. VSR/CMB)
- Brake discs with hubs or couplings



Left-hand execution



Right-hand execution



All dimensions in mm
Alterations reserved without notice

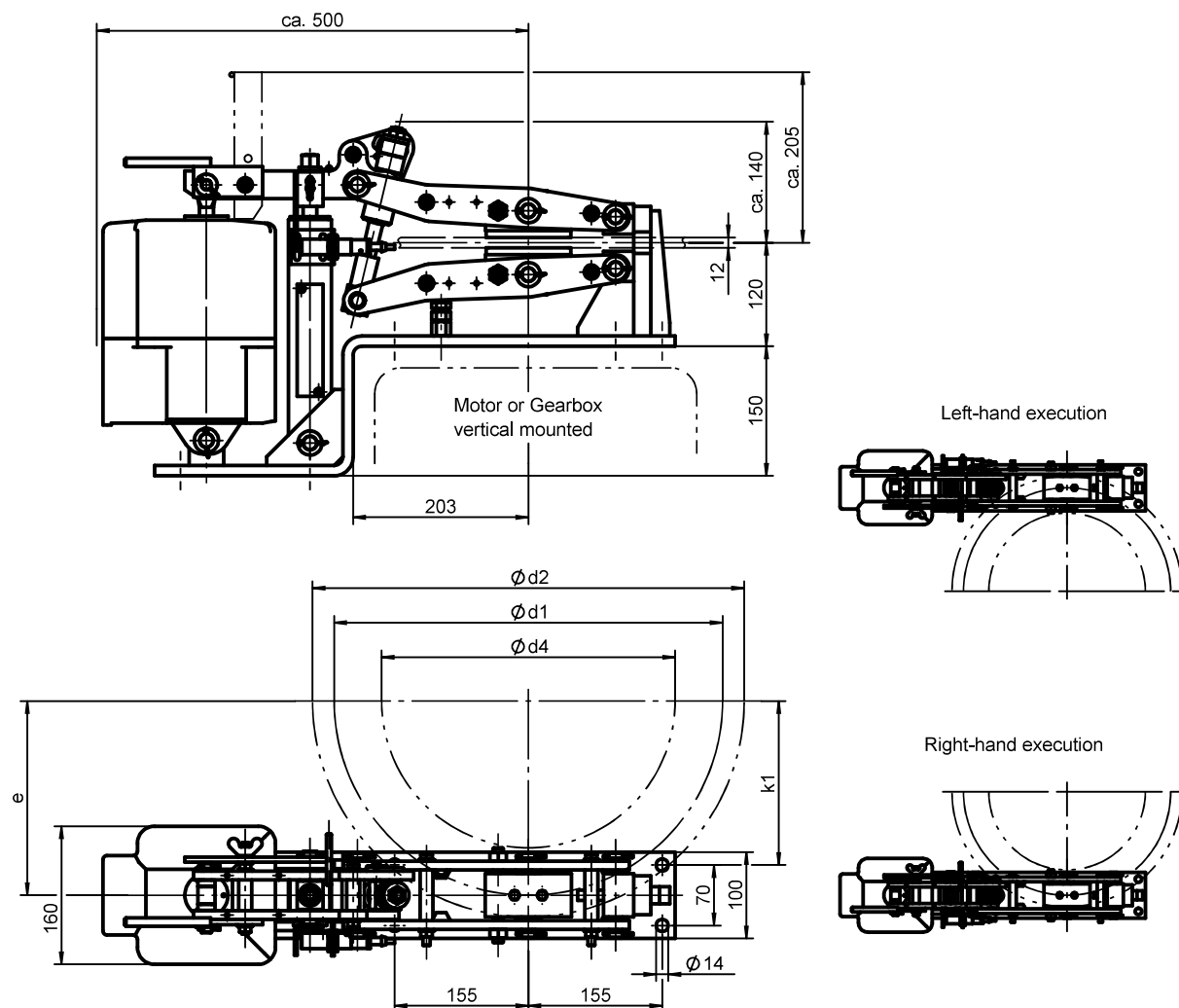
For crane brake layout use safety factors
documented in the FEM 1.001, Section 1

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

*) Average static friction factor of
standard material combination

**) Only applies in conjunction with
socket pins for large hub diameters

Weight without thruster: ca. 25 kg			Thruster type		BL 22-5 (Weight: 11 kg)		
			Contact force in N		3140		
Disc- $\varnothing$ d_2	Friction- $\varnothing$ d_1	Max. hub- $\varnothing$ d_4	e	k_1	* $M_{Brmax.}$ (Nm) at $\mu = 0,4$	* $M_{Brmin.}$ (Nm) at $\mu = 0,4$	* $M_{Brmin.}$ (% from $M_{Brmax.}$)
200	150	50**	75	40	190	114	60
225	175	75**	88	53	220	132	60
250	200	105**	100	65	250	150	60
280	230	130**	115	80	290	174	60
315	265	155	133	98	335	201	60
355	305	195	153	118	385	231	60
400	350	240	175	140	440	264	60
450	400	290	200	165	500	300	60
500	450	340	225	190	565	339	60



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!

*) Average static friction factor of
standard material combination

**) Only applies in conjunction with
socket pins for large hub diameters

Weight without thruster: ca. 25 kg			Thruster type		Ed 23/5 (weight: 10 kg)			Ed 25/5 (weight: 10 kg)		
Disc-Ø d ₂	Friction-Ø d ₁	Max. hub-Ø d ₄	Contact force in N		2445			3140		
			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.})
200	150	50**	75	40	145	109	75	190	114	60
225	175	75**	88	53	170	128	75	220	132	60
250	200	105**	100	65	195	146	75	250	150	60
280	230	130**	115	80	225	169	75	290	174	60
315	265	155	133	98	260	195	75	335	201	60
355	305	195	153	118	300	225	75	385	231	60
400	350	240	175	140	340	255	75	440	264	60
450	400	290	200	165	390	293	75	500	300	60
500	450	340	225	190	440	330	75	565	339	60



SB 23.3

The SB series stands out due to its extremely fast closing times and its variability. It is used in a wide range of industries around the world due to its versatility, ease of application and user-friendly handling.

TORQUE: 5165 Nm

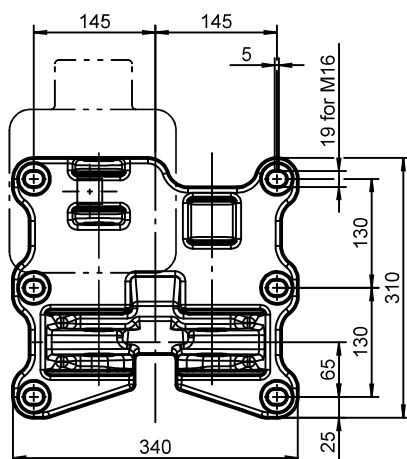
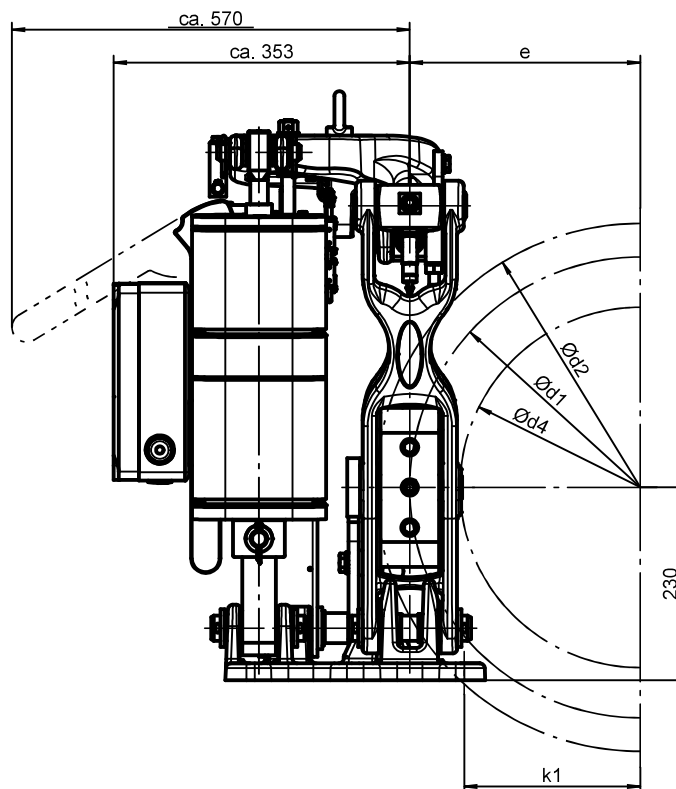
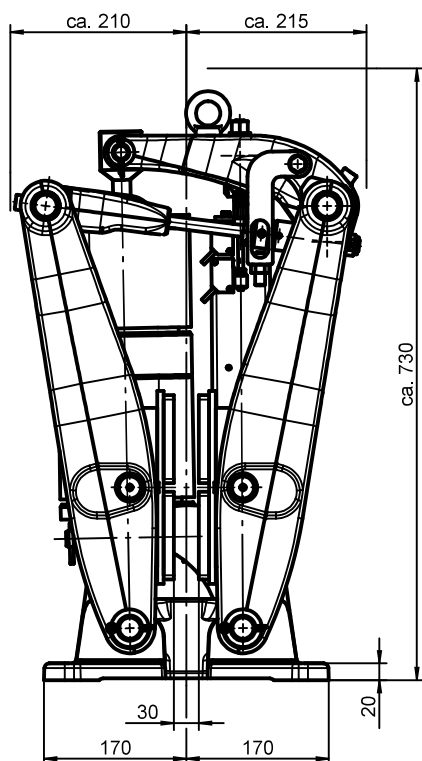
CONTACT FORCE: 20500 N

MAIN FEATURES:

- Proximity switch brake release
- Manual release lever with or without lock
- Manual release lever latching or non latching
- 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:

- Proximity switch pad wear
- Proximity switch hand release
- Monitoring systems (e.g. VSR/CMB)
- Brake disc with hub or coupling
- Option: Terminal box for limit switches
- Special painting for increased corrosion protection
- Manual release lever on top of BUEL® thruster



*) Average static coefficient of friction
for standard material combination

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

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

All dimensions in mm
Alterations reserved without notice

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	135	137,5	72,5	755	378	50						
400	320	180	160	95	875	438	50	1375	825	60	2625	1313	50
450	370	230	185	120	1015	508	50	1590	954	60	3035	1518	50
500	420	280	210	145	1150	575	50	1805	1083	60	3445	1723	50
560	480	340	240	175	1315	658	50	2065	1239	60	3935	1968	50
630	550	410	275	210	1505	753	50	2365	1419	60	4510	2255	50
710	630	490	315	250	1725	863	50	2710	1626	60	5165	2583	50



SB 28.5

To uphold our reputation as a global leader in braking systems and manufacturing solutions, the SB 28.5 represents DELLNER BUBENZER's commitment to constantly innovate, provide industry solutions and anticipate the needs of our customers. Supported by decades of engineering, evolution, and innovation, the SB28.5 brake presents significant advantages with an enhanced and compact design, sustainability, and preeminent performance. Welcome to the SB 28.5, the new generation of SB-disc brake series.

TORQUE: 23400 Nm

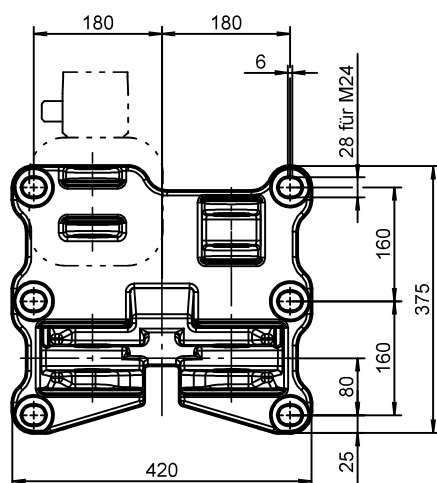
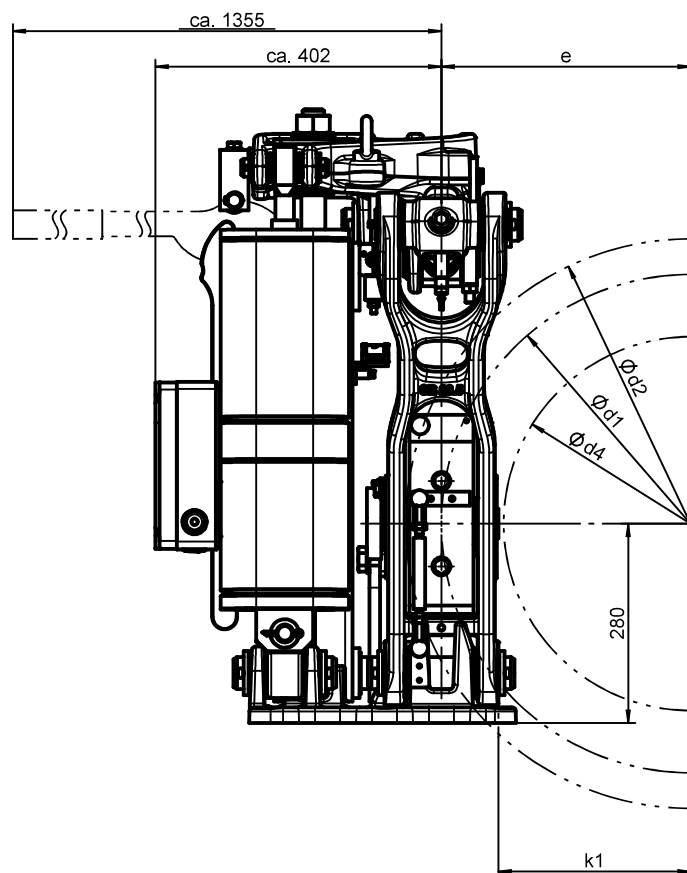
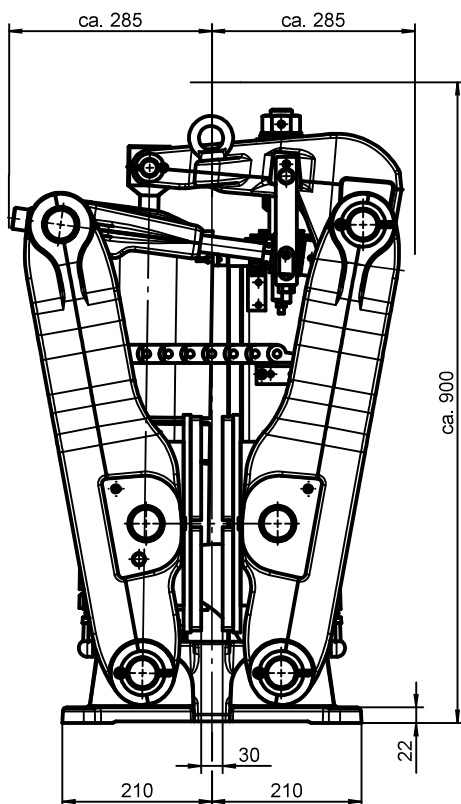
CONTACT FORCE: 65000 N

MAIN FEATURES:

- Proximity switch brake release
- Manual release lever with or without lock
- Manual release lever latching or non latching
- 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:

- Proximity switch pad wear
- Proximity switch hand release
- Monitoring systems (e.g. VSR/CMB)
- Brake disc with hub or coupling
- Option: Terminal box for limit switches
- Special painting for increased corrosion protection
- Manual release lever on top of BUEL® thruster



*) Average static coefficient of friction
for standard material combination

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

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

All dimensions in mm
Alterations reserved without notice

Weight without thruster: ca. 230 kg			Thruster type Contact force in N		BL 125-6 (Weight: 24 kg)			BL 200-6 (Weight: 24 kg)			BL 300-6 (Weight: 33 kg)			BL 450-8 (Weight: 33 kg)		
					22500			35000			50000			65000		
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.})	*M _{Brmax.} (Nm) at μ = 0,4	*M _{Brmin.} (Nm) at μ = 0,4	*M _{Brmin.} (% from M _{Brmax.})
450	350	180	175	95	3150	1575	50									
500	400	230	200	120	3600	1800	50									
560	460	290	230	150	4140	2070	50	6440	3220	50						
630	530	360	265	185	4770	2385	50	7420	3710	50	10600	5830	55	0	0	0
710	610	440	305	225	5490	2745	50	8540	4270	50	12200	6710	55	15860	7930	50
800	700	530	350	270	6300	3150	50	9800	4900	50	14000	7700	55	18200	9100	50
900	800	630	400	320							16000	8800	55	20800	10400	50
1000	900	730	450	370							18000	9900	55	23400	11700	50



SB 30

The SB series stands out due to its extremely fast closing times and its variability. It is used in a wide range of industries around the world due to its versatility, ease of application and user-friendly handling.

TORQUE: 28800 Nm

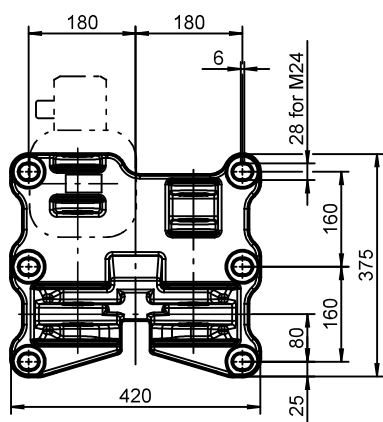
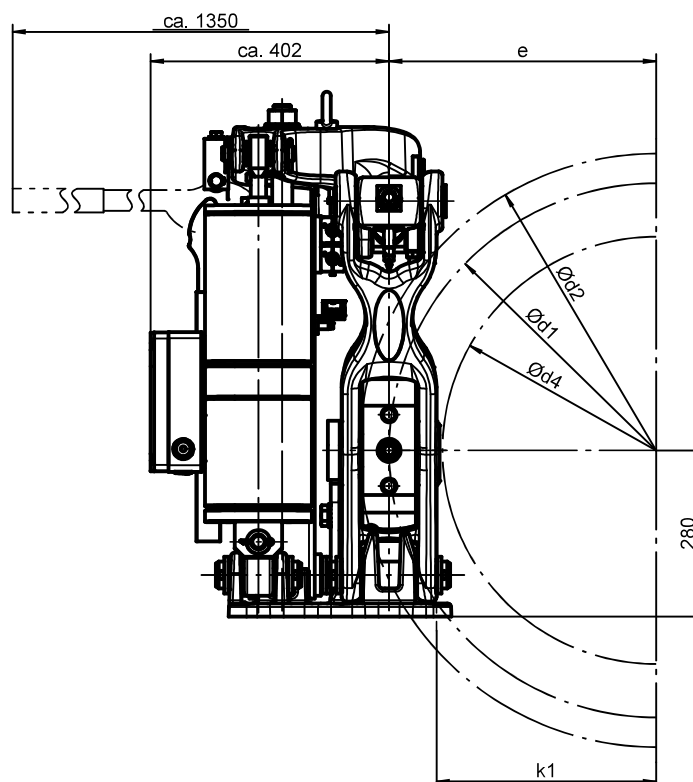
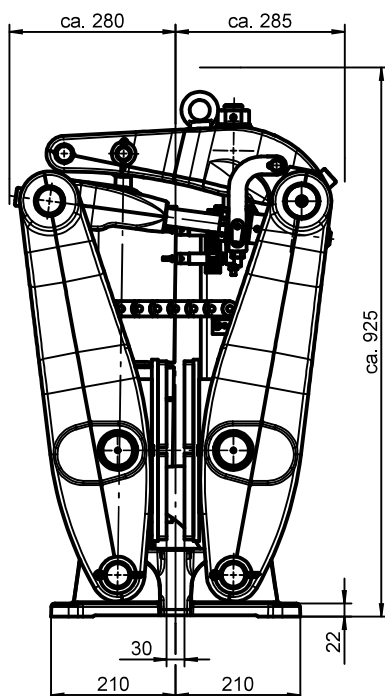
CONTACT FORCE: 80000 N

MAIN FEATURES:

- Proximity switch brake release
- Manual release lever with or without lock
- Manual release lever latching or non latching
- 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:

- Proximity switch pad wear
- Proximity switch hand release
- Monitoring systems (e.g. VSR/CMB)
- Brake disc with hub or coupling
- Option: Terminal box for limit switches
- Special painting for increased corrosion protection
- Manual release lever on top of BUEL® thruster



*) Average static coefficient of friction
for standard material combination

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

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

All dimensions in mm
Alterations reserved without notice

Weight without thruster: ca. 270 kg			Thruster type Contact force		BL 550-8 (Weight: 33 kg) 80000		
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.})
710	610	430	305	225	19520	9760	50
800	700	520	350	270	22400	11200	50
900	800	620	400	320	25600	12800	50
1000	900	720	450	370	28800	14400	50



SB 8 Series

The SB series stands out due to its extremely fast closing times and its variability. It is used in a wide range of industries around the world due to its versatility, ease of application and user-friendly handling.

TORQUE: Up to 20500 Nm

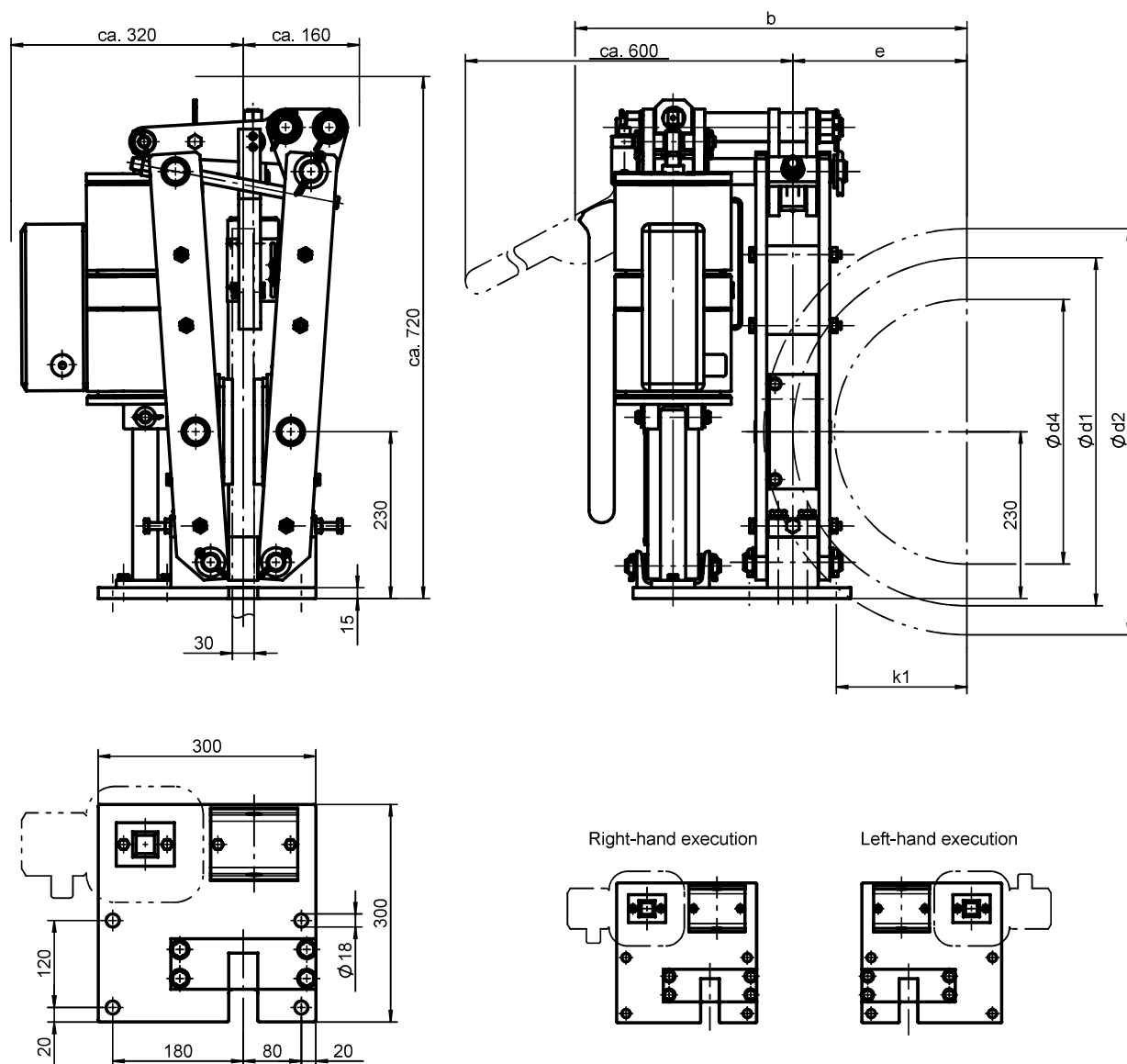
CONTACT FORCE: Up to 45760 N

MAIN FEATURES:

- Compact dimensions
- **I**deal 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
- Proximity switch hand release
- Manual release lever with or without lock
- Monitoring systems (e.g. VSR/CMB)
- Brake discs with hubs or couplings



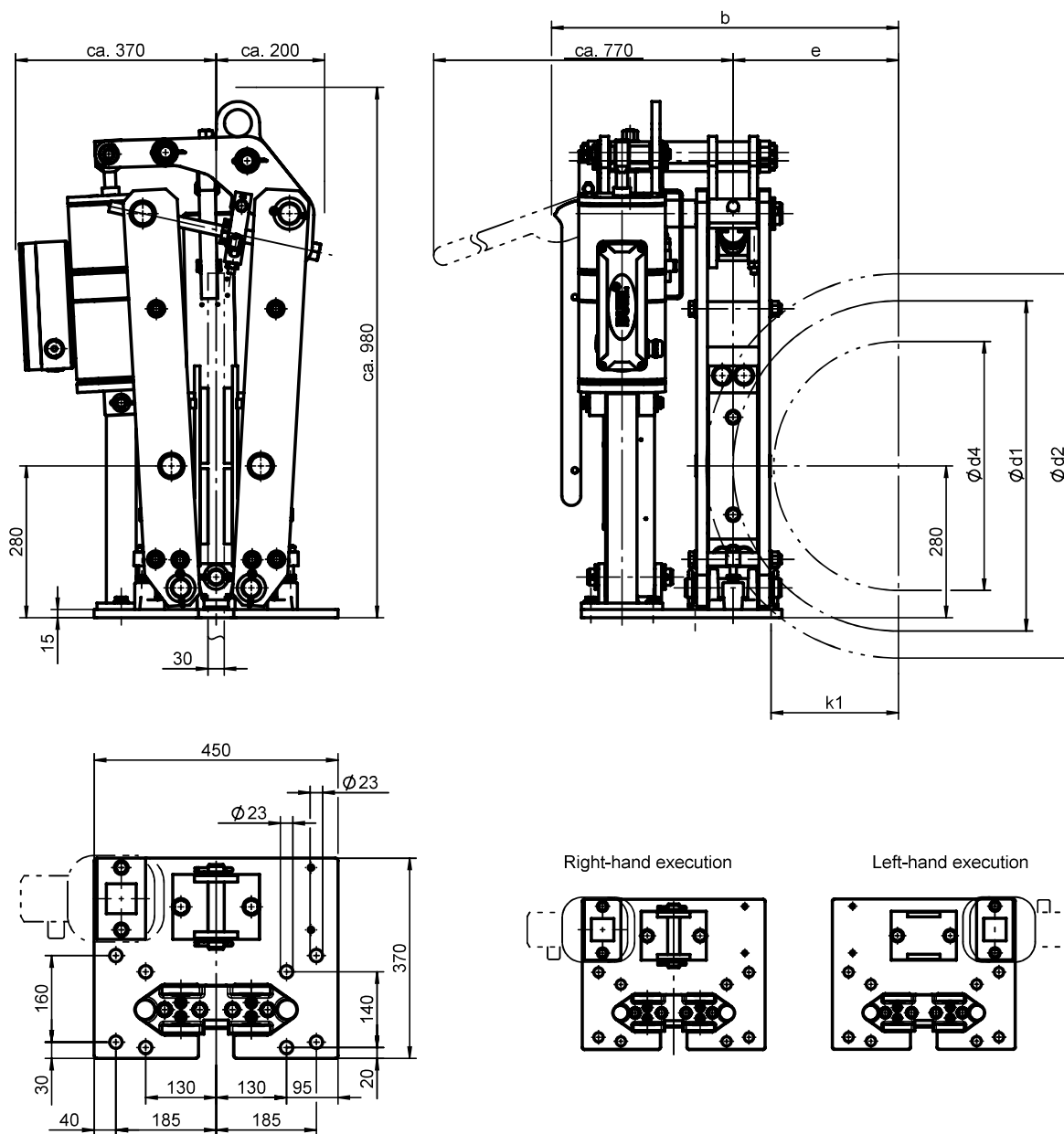
All dimensions in mm
Alterations reserved without notice

*) Average static friction factor of
standard material combination

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. 83 kg			Thruster type			BL 30-5 (Weight: 13 kg)			BL 50-6 (Weight: 16 kg)			BL 80-6 (Weight: 21 kg)		
			Contact force in N			6300			11850			16930		
Disc-Ø d ₂	Friction-Ø d ₁	Max. hub-Ø d ₄	b _{max.}	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	160	438	137,5	77,5	695	348	50	1305	653	50	1860	930	50
400	320	205	460	160	100	805	403	50	1515	758	50	2165	1083	50
450	370	255	485	185	125	930	465	50	1755	878	50	2505	1253	50
500	420	305	510	210	150	1060	530	50	1990	995	50	2845	1423	50
560	480	365	540	240	180	1210	605	50	2275	1138	50	3250	1625	50



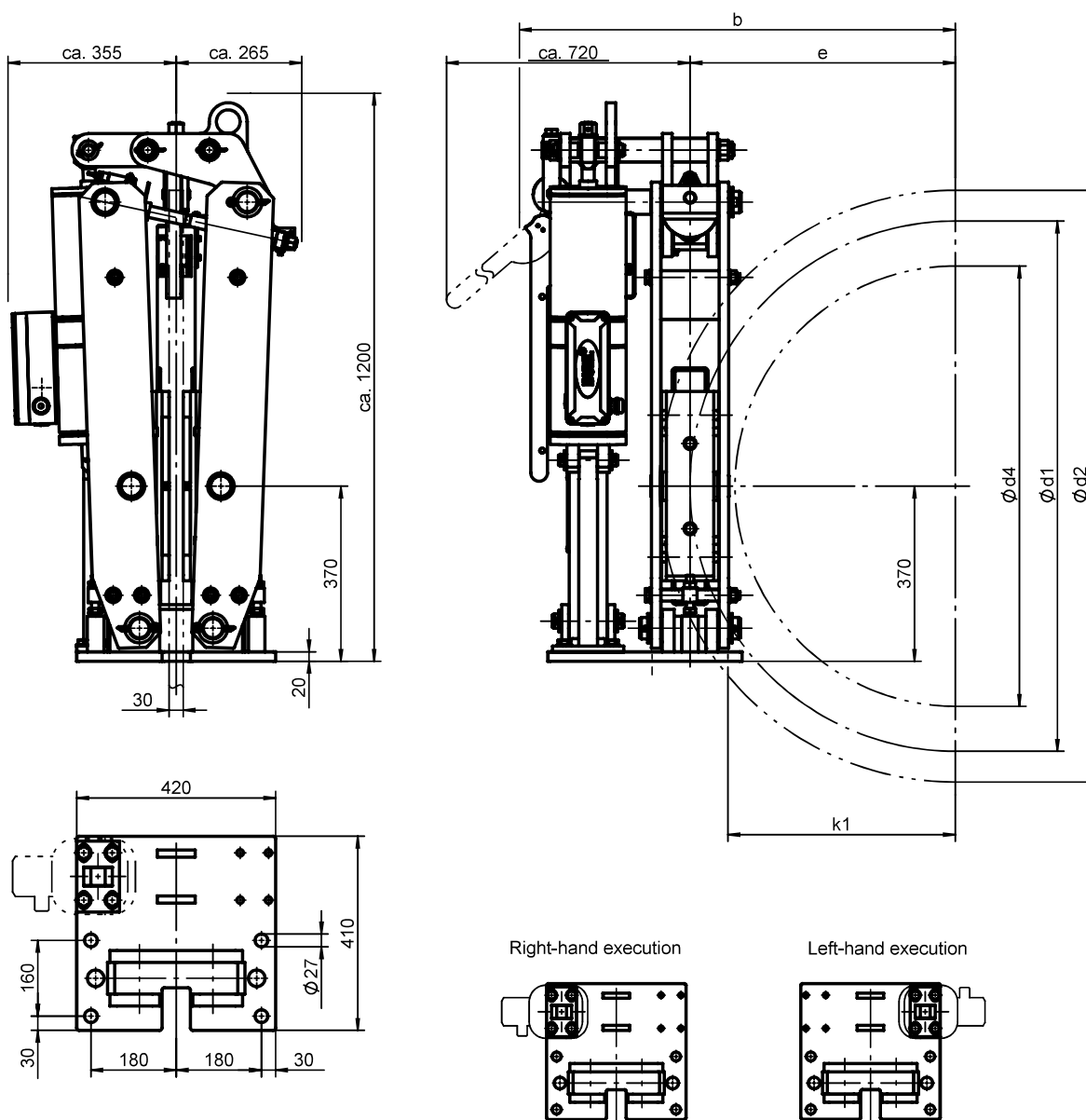
All dimensions in mm
Alterations reserved without notice

*) Average static friction factor of
standard material combination

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. 180 kg			Thruster type			BL 50-6 (Weight: 16 kg)			BL 80-6 (Weight: 21 kg)			BL 125-6 (Weight: 24 kg)		
			Contact force in N			11680			25200			33500		
Disc-Ø d ₂	Friction-Ø d ₁	Max. hub-Ø d ₄	b _{max.}	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.})
450	350	200	510	175	105	1635	818	50	3530	2118	60	4690	2345	50
500	400	250	535	200	130	1870	935	50	4030	2418	60	5360	2680	50
560	460	310	565	230	160	2150	1075	50	4635	2781	60	6165	3083	50
630	530	380	600	265	195	2475	1238	50	5340	3204	60	7100	3550	50
710	610	460	640	305	235	2850	1425	50	6150	3690	60	8175	4088	50



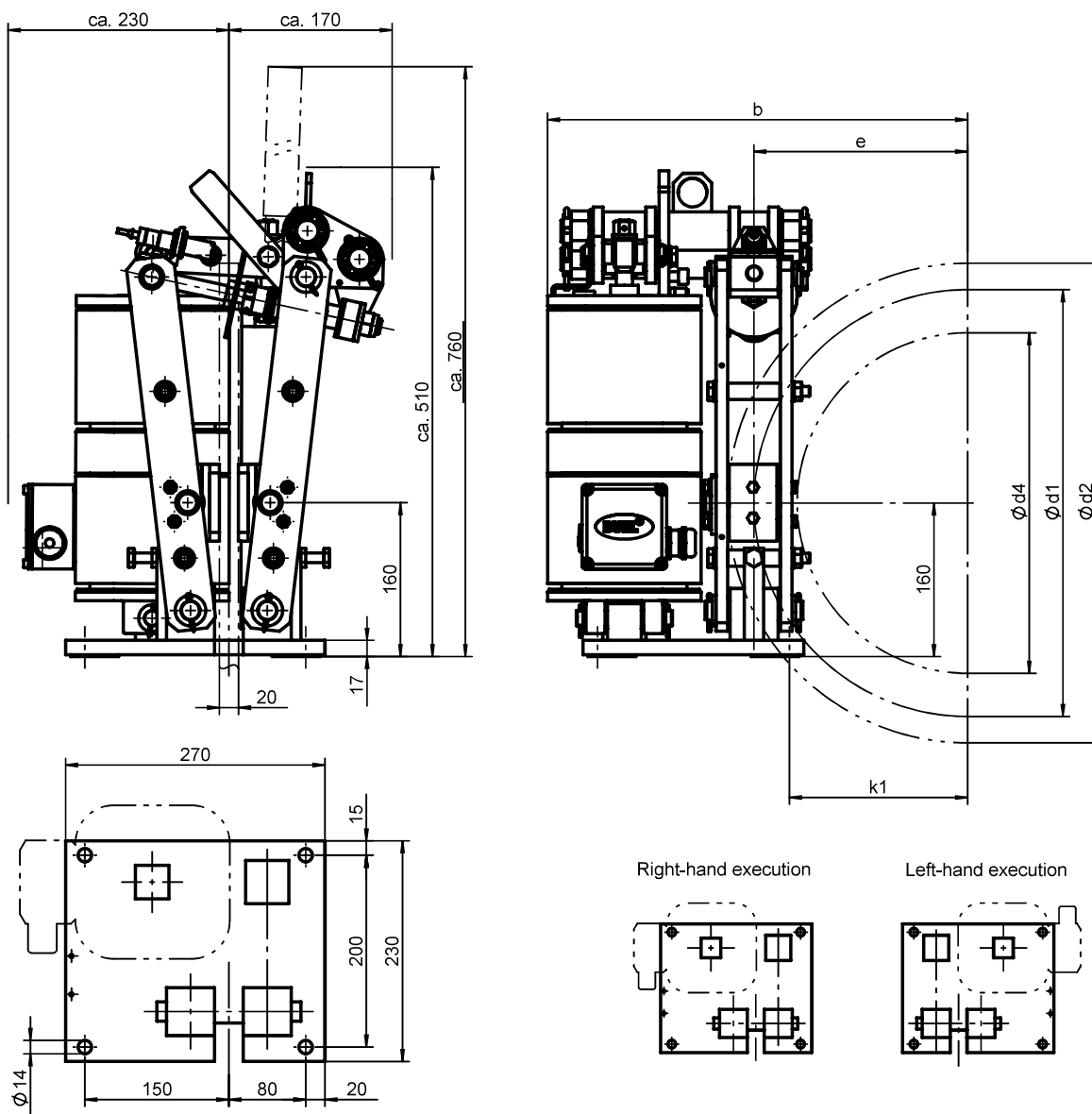
All dimensions in mm
Alterations reserved without notice

*) Average static friction factor of
standard material combination

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. 290 kg			Thruster type			BL 125-6 (Weight: 24 kg)			BL 200-6 (Weight: 24 kg)		
			Contact force in N			31810			45760		
Disc-Ø d ₂	Friction-Ø d ₁	Max. hub-Ø d ₄	b _{max.}	e	k ₁	*M _{Br max.} (Nm) at μ = 0,4	*M _{Br min.} (Nm) at μ = 0,4	*M _{Br min.} (% from M _{Br max.})	*M _{Br max.} (Nm) at μ = 0,4	*M _{Br min.} (Nm) at μ = 0,4	*M _{Br min.} (% from M _{Br max.})
630	500	310	610	250	170	6360	3180	50	9150	4575	50
710	580	390	650	290	210	7380	3690	50	10615	5308	50
800	670	480	695	335	255	8525	4263	50	12265	6133	50
900	770	580	745	385	305	9795	4898	50	14095	7048	50
1000	870	680	795	435	355	11070	5535	50	15925	7963	50
1250	1120	930	920	560	480	14250	7125	50	20500	10250	50



All dimensions in mm
Alterations reserved without notice

*) Average static friction factor of
standard material combination

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)		
			Contact force in N			2500			3400		
Disc-Ø d ₂	Friction-Ø d ₁	Max. hub-Ø d ₄	b _{max.}	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.})
250	195	105	325	97,5	60,5	195	107	55	265	133	50
280	225	130	340	112,5	75,5	225	124	55	305	153	50
315	260	165	358	130	93	260	143	55	355	178	50
355	300	205	378	150	113	300	165	55	410	205	50
400	345	250	400	172,5	135,5	345	190	55	470	235	50
450	395	300	425	197,5	160,5	395	217	55	535	268	50
500	445	350	450	222,5	185,5	445	245	55	605	303	50