

Left-hand execution

Right-hand execution

All dimensions in mm
 Alterations reserved without notice

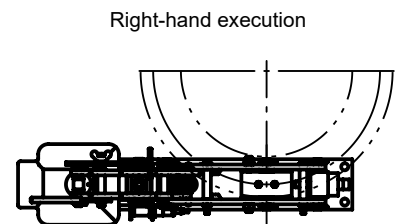
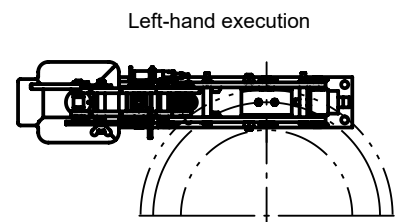
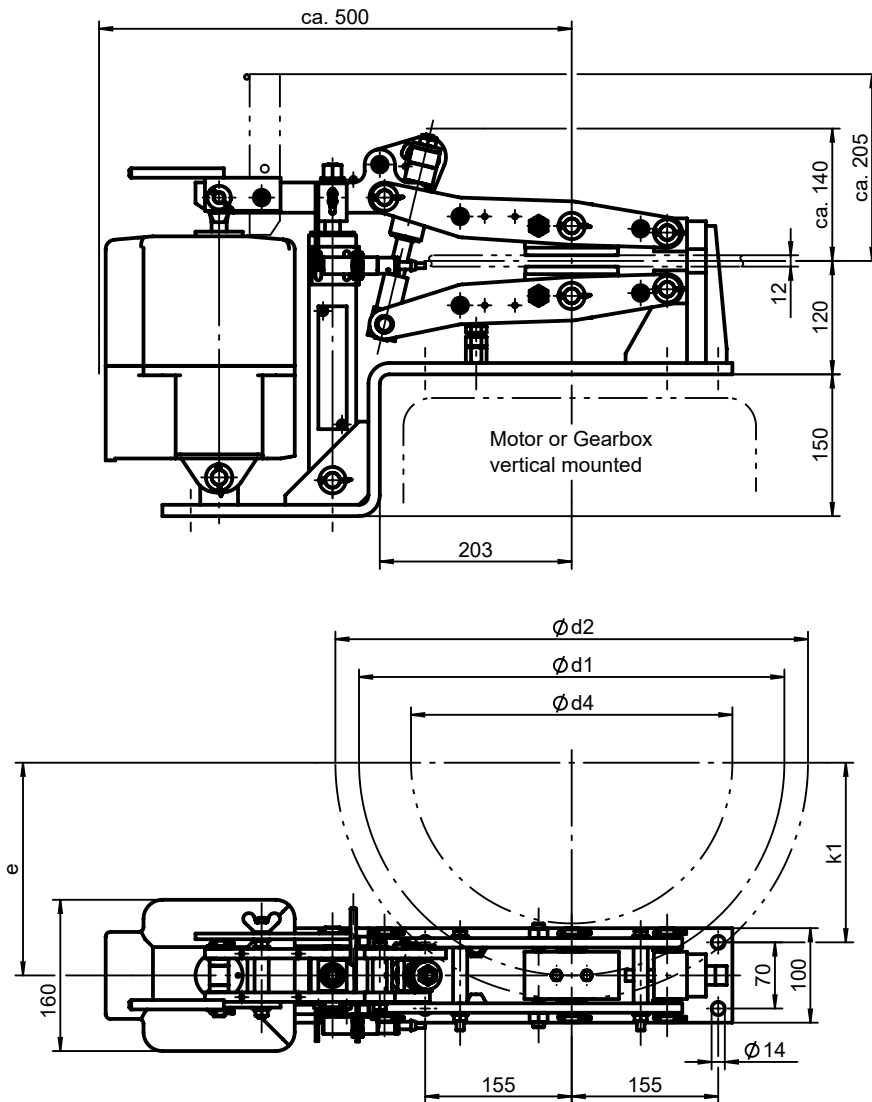
*) Average static friction factor of standard material combination

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

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. 25 kg | | | Thruster type | | BL 22-5 (Weight: 11 kg) | | |
|---------------------------------------|------------------------------|------------------------------|--------------------|----------------|--|--|--|
| Disc-Ø d ₂ | Friction-Ø d ₁ | Max. hub-Ø d ₄ | Contact force in N | | 3140 | | |
| | | | e | k ₁ | *M _{Brmax.} (Nm) at μ = 0,4 | *M _{Brmin.} (Nm) at μ = 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 |



*) Average static friction factor of standard material combination

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

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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. 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 |