



MOTORBASES

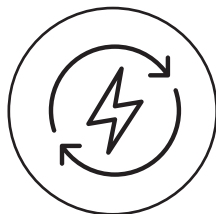
Self-tensioning motor mounts for friction belt drives

- Prevent belt slippage
- One-time set-up
- Change belts without realignment
- Compensation for load changes
- Constant transfer of force

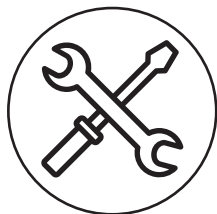
Product advantages:



cost-saving



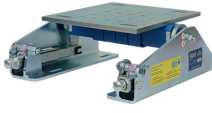

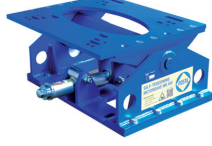


energy-saving

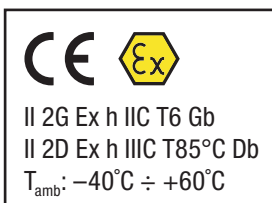


maintenance-free

Selection table motorbases

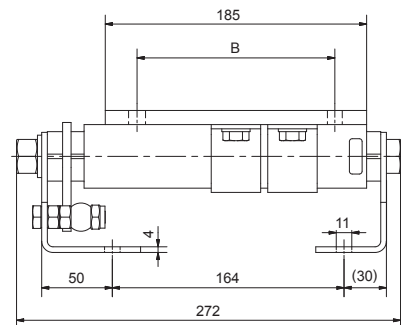
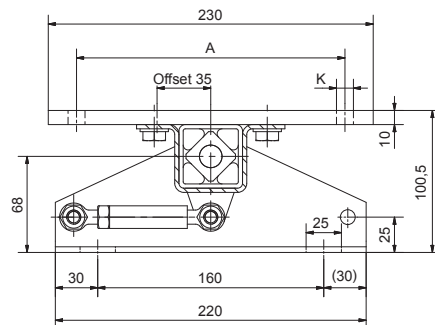
| Illustration | Type | IEC | | | NEMA | | | Page |
|---|----------------------|--------------------|--|--|------------------|--|--|------------|
| | | Motor Frame Size | P [kW] 1000 min ⁻¹ 6-pole motor | P [kW] 1500 min ⁻¹ 4-pole motor | Motor Frame Size | P [HP] 1200 min ⁻¹ 6-pole motor | P [HP] 1800 min ⁻¹ 4-pole motor | |
|  | MB 27 × 120 | 90S | 0.75 | 1.1 | 143T | 0.75 | 1 | 6.3 |
| | | 90L | 1.1 | 1.5 | 145T | 1 | 1.5/2 | |
| | | 100L | 1.5 | 2.2/3 | 182T | 1.5 | 3 | |
| | | 112M | 2.2 | 4 | 184T | 2 | 5 | |
|  | MB 38 × 300 | 132S | 3 | 5.5 | 213T | 3 | 7.5 | 6.4 |
| | | 132M | 4/5.5 | 7.5 | 215T | 5 | 10 | |
| | | 160M | 7.5 | 11 | 254T | 7.5 | 15 | |
| | | 160L | 11 | 15 | 256T | 10 | 20 | |
|  | MB 50 × 270-1 | 160M | 7.5 | 11 | 254T | 7.5 | 15 | 6.5 |
| | | 160L | 11 | 15 | 256T | 10 | 20 | |
| | MB 50 × 270-2 | 180M | – | 18.5 | 284T | 15 | 25 | |
| | | 180L | 15 | 22 | 286T | 20 | 30 | |
| | MB 50 × 400 | 200L | 18.5/22 | 30 | 324T | 25 | 40 | |
| | | – | – | – | 326T | 30 | 50 | |
| | MB 50 × 500 | 225S | – | 37 | 364T | 40 | 60 | |
| | | 225M | 30 | 45 | 365T | 50 | 75 | |
|  | MB 70 × 400 | 250M | 37 | 55 | 404T | 60 | 100 | 6.6 |
| | MB 70 × 550 | 280S | 45 | 75 | 405T | 75 | 100/125 | |
| | | 280M | 55 | 90 | 444T | 100 | 125/150 | |
| | MB 70 × 650 | 315S | 75 | 110 | 445T | 125/150 | 150/200 | |
| | | MB 70 × 800 | 315M | 90/110 | 132–160 | 447T | 150–200 | |
| | 315L | | 110–160 | 160–200 | 449T | 200–300 | 250–300 | |
|  | MB 100 × 750 | 315M | 90/110 | 132–160 | 447T | 150–200 | 200–250 | 6.7 |
| | | 315L | 110–160 | 160–200 | 449T | 200–300 | 250–300 | |
| | | 355S | 132–160 | 200–250 | 586/7 | 250–350 | 300–350 | |
| | | 355M | 200–250 | 250 | – | – | – | |
| | | 355L | 200–250 | 250 | – | – | – | |
| | MB 100 × 1000 | various | up to 275 | up to 400 | various | up to 370 | up to 540 | on request |
| | MB 100 × 1500 | various | up to 350 | up to 550 | various | up to 650 | up to 750 | |

- Attention: Don't use motorbase on floating chassis.
- Contact ROSTA for more frame sizes not listed.
- For the ATEX certified designs category 2 please change the 3rd digit of the part number to 3 (example: 02 200 201 = 02 300 201).
- ATEX label:



Motorbase

MB 27



| Part no. | Type | Motor Frame Size | IEC | | | Motor Frame Size | NEMA | | | Weight [kg] |
|------------|-------------|------------------|-----|-----|------|------------------|------|-----|------|-------------|
| | | | A | B | K | | A | B | K | |
| 02 200 201 | MB 27 × 120 | 90S | 140 | 100 | 10.5 | 143T | 140 | 102 | 10.5 | 6.9 |
| | | 90L | 140 | 125 | 10.5 | 145T | 140 | 127 | 10.5 | 6.9 |
| | | 100L | 160 | 140 | 10.5 | 182T | 190 | 114 | 10.5 | 6.9 |
| | | 112M | 190 | 140 | 10.5 | 184T | 190 | 140 | 10.5 | 6.9 |

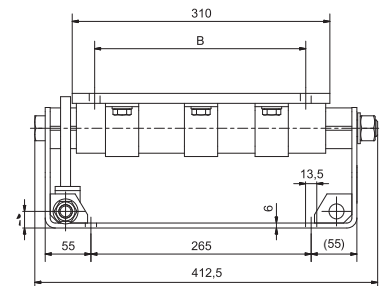
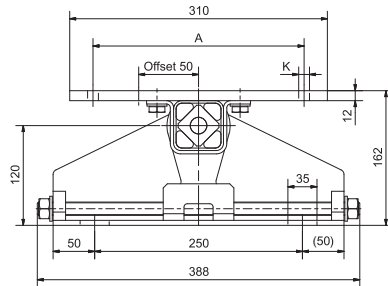
Details ATEX on page 6.2.

If the tension range is not sufficient, the motor plate can be configured in the offset position.

If no other units are specified, the numbers given are in mm.

Motorbase

MB 38



| Part no. | Type | IEC | | | | NEMA | | | | Weight [kg] |
|------------|--------------------|------------------|-----|-----|-----|------------------|-----|-----|-----|----------------|
| | | Motor Frame Size | A | B | K | Motor Frame Size | A | B | K | |
| 02 000 301 | MB 38 × 300 | 132S | 216 | 140 | M10 | 213T | 216 | 140 | M10 | 25.4 |
| | | 132M | 216 | 178 | M10 | 215T | 216 | 178 | M10 | 25.4 |
| | | 160M | 254 | 210 | 13 | 254T | 254 | 210 | 13 | 25.4 |
| | | 160L | 254 | 254 | 13 | 256T | 254 | 254 | 13 | 25.4 |

Details ATEX on page 6.2.

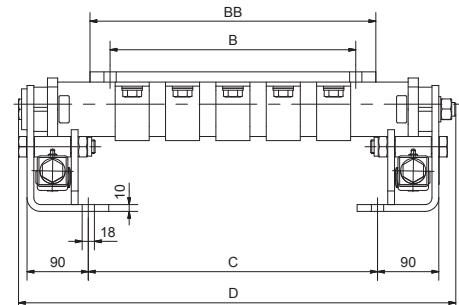
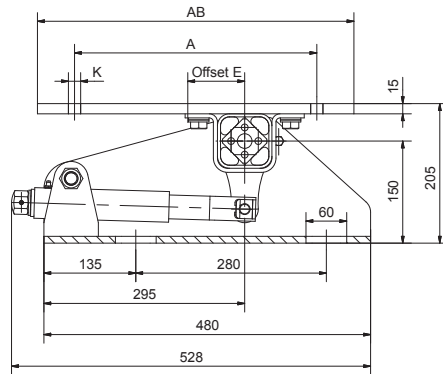
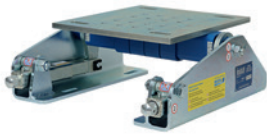
If the tension range is not sufficient, the motor plate can be configured in the offset position.

If no other units are specified, the numbers given are in mm.

We recommend using the MB 50 for motor frame size 160 in vibrating screen applications.

Motorbase

MB 50



| Part no. | Type | Motor Frame Size | IEC | | | NEMA | | | AB | BB | C | D | E | Weight [kg] | |
|------------|---------------|------------------|-----|-----|----|------------------|-----|-----|----|-----|-----|-----|-----|-------------|------|
| | | | A | B | K | Motor Frame Size | A | B | | | | | | | K |
| 02 200 526 | MB 50 × 270-1 | 160M | 254 | 210 | 14 | 254T | 254 | 210 | 14 | 320 | 315 | 245 | 463 | 25 | 43.8 |
| | | 160L | 254 | 254 | 14 | 256T | 254 | 254 | 14 | 320 | 315 | 245 | 463 | 25 | 43.8 |
| 02 200 527 | MB 50 × 270-2 | 180M | 279 | 241 | 14 | 284T | 279 | 241 | 14 | 350 | 335 | 245 | 463 | 72 | 46.2 |
| | | 180L | 279 | 279 | 14 | 286T | 279 | 279 | 14 | 350 | 335 | 245 | 463 | 72 | 46.2 |
| 02 200 528 | MB 50 × 400 | 200L | 318 | 305 | 18 | 324T | 318 | 267 | 18 | 405 | 390 | 345 | 563 | 55 | 56.6 |
| | | – | – | – | – | 326T | 318 | 305 | 18 | 405 | 390 | 345 | 563 | 55 | 56.6 |
| 02 200 529 | MB 50 × 500 | 225S | 356 | 286 | 18 | 364T | 356 | 286 | 18 | 465 | 420 | 425 | 643 | 72 | 63.2 |
| | | 225M | 356 | 311 | 18 | 365T | 356 | 311 | 18 | 465 | 420 | 425 | 643 | 72 | 63.2 |

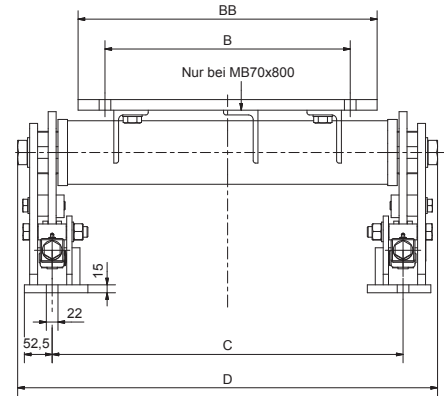
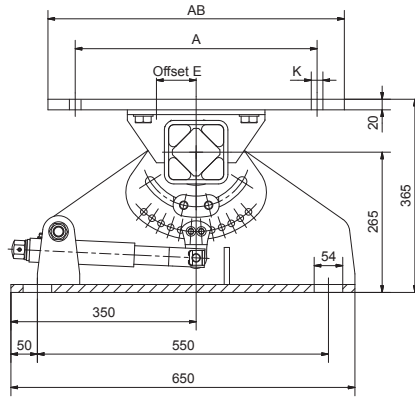
Details ATEX on page 6.2.

The ROSTA Motorbases MB 50 are supplied with the motor plate installed in «off-set» configuration. Depending on the operating angle of the running belts, the motor plate can also be configured «centrally» over the element axis. Corresponding threads are present on the motor plate. For a higher setting angle of the motor plate, the lever can be mounted at 45°.

If no other units are specified, the numbers given are in mm.

Motorbase

MB 70



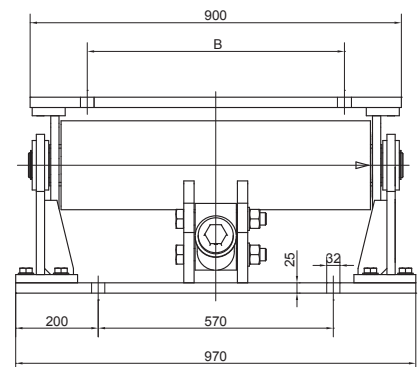
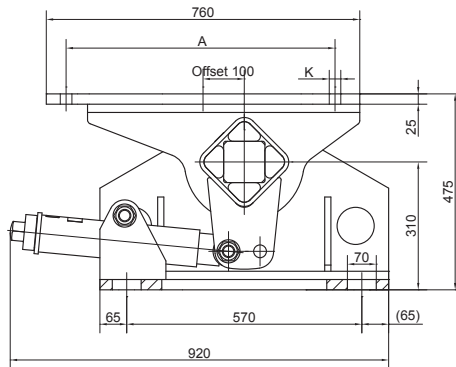
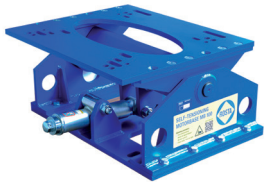
| Part no. | Type | Motor Frame Size | IEC | | | NEMA | | | AB | BB | C | D | E | Weight [kg] | |
|------------|--------------------|------------------|-----|-----|----|------------------|-----|-----|----|-----|-----|-----|-------|-------------|-----|
| | | | A | B | K | Motor Frame Size | A | B | | | | | | | K |
| 02 200 710 | MB 70 × 400 | 250M | 406 | 349 | 22 | 404T | 406 | 311 | 22 | 510 | 410 | 513 | 643 | 50 | 140 |
| 02 200 711 | MB 70 × 550 | 280S | 457 | 368 | 22 | 405T | 406 | 349 | 22 | 560 | 565 | 663 | 793 | 50 | 190 |
| | | 280M | 457 | 419 | 22 | 444T | 457 | 368 | 22 | 560 | 565 | 663 | 793 | 50 | 190 |
| 02 200 712 | MB 70 × 650 | 315S | 508 | 406 | 26 | 445T | 457 | 419 | 22 | 630 | 660 | 763 | 893 | 70 | 189 |
| 02 200 713 | MB 70 × 800 | 315M | 508 | 457 | 28 | 447T | 457 | 508 | 22 | 630 | 805 | 913 | 1 043 | 70 | 215 |
| | | 315L | 508 | 508 | 28 | 449T | 457 | 635 | 22 | 630 | 805 | 913 | 1 043 | 70 | 215 |

Details ATEX on page 6.2.

All ROSTA Motorbases MB 70 is supplied with motor plate installed in «centered» configuration on top of the element axis. According to the final positioning of the base, the operating angle of the belts and the required tensioning travel, the motor plate can be altered in «off-set» position. Relevant threaded fixation holes are existent in plate. For possibly required additional tensioning travel of the motor plate, the fork head of the pretensioning device can be set in one of the eleven hole positions of the friction plate. If no other units are specified, the numbers given are in mm.

Motorbase

MB 100



| Part no. | Type | IEC | | | | NEMA | | | | Weight [kg] |
|------------|---------------------|---------------------|-----|-----|----|---------------------|-----|-----|----|----------------|
| | | Motor Frame Size | A | B | K | Motor Frame Size | A | B | K | |
| 02 200 900 | MB 100 x 750 | 315M | 508 | 457 | 28 | 447T | 457 | 508 | 21 | 490 |
| | | 315L | 508 | 508 | 28 | 449T | 457 | 635 | 21 | 490 |
| | | 355S | 610 | 500 | 28 | 586/7 | 584 | 560 | 30 | 490 |
| | | 355M | 610 | 560 | 28 | – | – | – | – | 490 |
| | | 355L | 610 | 630 | 28 | – | – | – | – | 490 |

Details ATEX on page 6.2.

For possibly required additional tensioning travel, the pretensioning device can be bolted into the front holes of the fork-head on the rubber suspension element.

If no other units are specified, the numbers given are in mm.