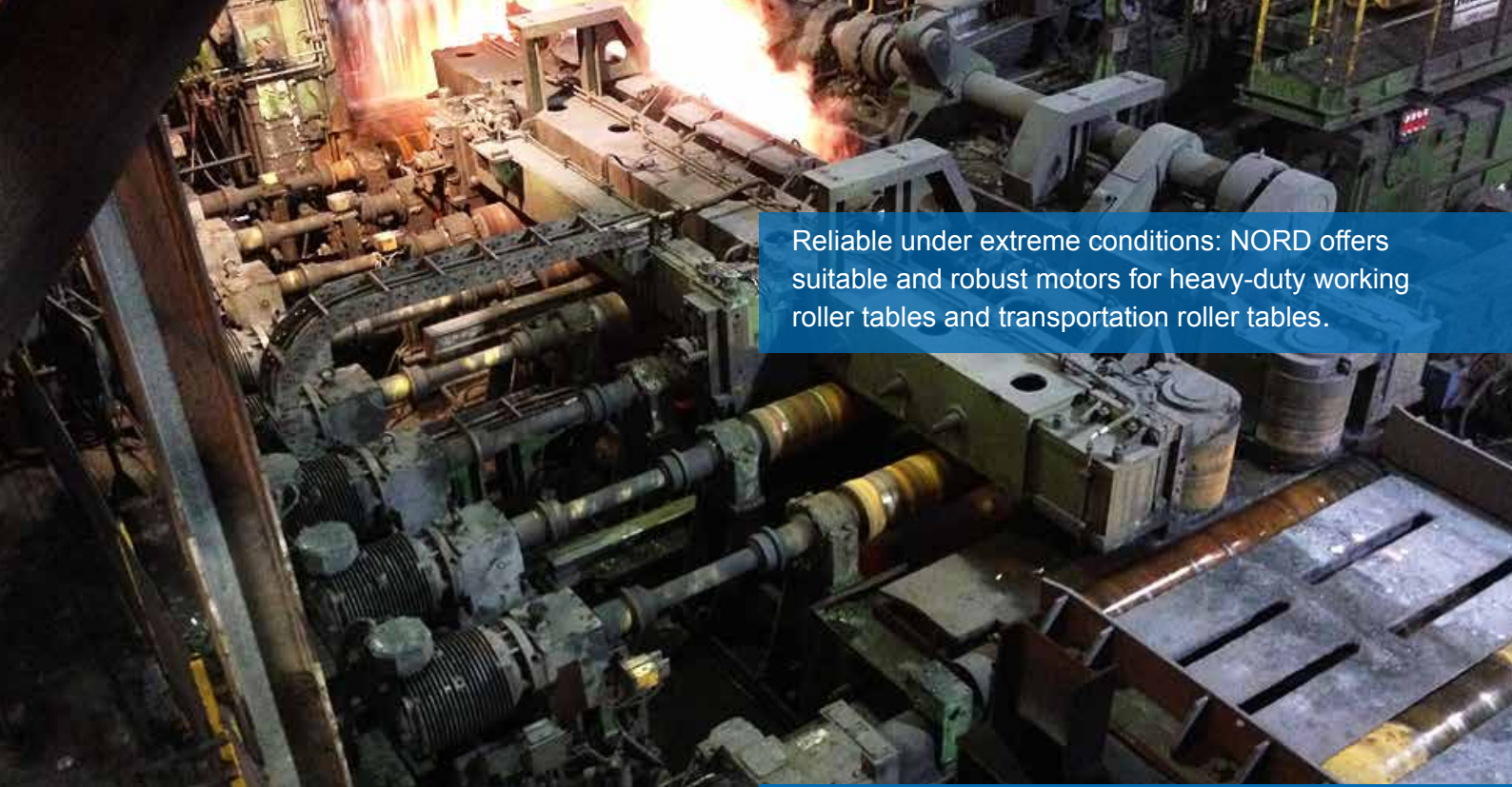


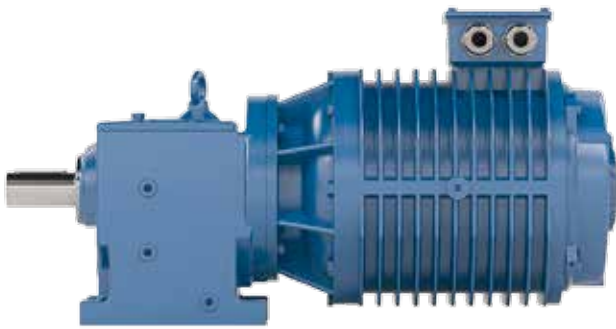
HEAVY-DUTY MOTORS FOR ROLLER TABLE APPLICATIONS



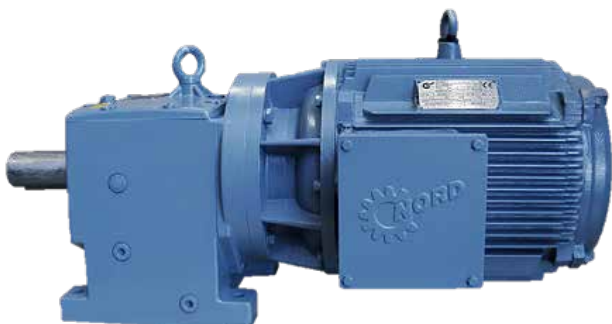
Reliable under extreme conditions: NORD offers suitable and robust motors for heavy-duty working roller tables and transportation roller tables.

FEATURES AND BENEFITS

- Shock-absorbing cast iron housings EN-GJL-200 (GG20) and reinforced drive end shields made from robust ductile cast iron EN-GJS-400-15 (GGG40) ensure maximum resistance against mechanical stress.
- Individual project-based winding adaption possible
- Hard torque characteristics with high breakdown torque values
- Insulation systems for inverter feedings
- Natural convection cooling (IC410), totally enclosed design
- Stalling time capability
- Insulation class F, Class H optionally
- IE1 Standard efficiency, High efficiency grades available on request.
- Available with different options as brakes, encoders, thermistors and many more.
- Optimized for direct NORD gear unit mounting.
- Compact integral solution (IEC B3 and B5 on request)



Roller table motor in circular fin design



Roller table motor in longitudinal fin design



CIRCULAR FIN DESIGN IC410



4 Pole

| 400V / 50Hz** | | Duty: S3*-60% | | | | |
|------------------|-----------------------|-----------------------|--------------|---------------|-------------------------|------------------|
| Motor Frame Size | Power | n | Rated Torque | Rated Current | Acceleration Torque VFD | Inertia |
| | kW | rpm | MN (Nm) | In (A) | Ma (Nm) | kgm ² |
| 112M | 2.2 | 1460 | 14.4 | 4.9 | 42 | 0.012 |
| 132S | 3.0 | 1470 | 19.5 | 6.6 | 70 | 0.021 |
| 132M* | 4.0 | 1470 | 26.1 | 8.6 | 103 | |
| | 5.5 | Available on request. | | | | |
| 160M | 7.5 | 1470 | 48.7 | 14.9 | 158 | 0.075 |
| 160L | 9.2 | 1480 | 59.6 | 17.6 | 192 | 0.092 |
| 180M | 11.0 | 1480 | 71.2 | 20.8 | 222 | 0.136 |
| 180L | 15.0 | 1470 | 97.6 | 27.5 | 290 | 0.156 |
| 200L | 18.5 | 1480 | 119.3 | 34.1 | 364 | 0.3 |
| 225S | 26.0 | 1480 | 167.8 | 46.0 | 470 | 0.47 |
| 225M | Available on request. | | | | | |

6 Pole

| 400V / 50Hz** | | Duty: S3*-60% | | | | |
|------------------|-----------------------|-----------------------|--------------|---------------|-------------------------|------------------|
| Motor Frame Size | Power | n | Rated Torque | Rated Current | Acceleration Torque VFD | Inertia |
| | kW | rpm | MN (Nm) | In (A) | MA (Nm) | kgm ² |
| 112M | 2.2 | Available on request. | | | | |
| 132S | 3.0 | Available on request. | | | | |
| 132M | 3.0 | 970 | 29.5 | 7.3 | 104 | 0.042 |
| | 4.0 | 970 | 39.8 | 9.0 | 116 | 0.042 |
| 160M | 5.5 | 980 | 54.7 | 12.5 | 180 | 0.075 |
| 160L | 7.5 | 980 | 73.8 | 16.4 | 210 | 0.092 |
| 180L | 11.0 | 980 | 106.1 | 24.5 | 321 | 0.156 |
| 200L | 15.0 | 980 | 146.2 | 31.0 | 390 | 0.32 |
| 225S | 18.5 | Available on request. | | | | |
| 225M | 22.0 | 980 | 213.5 | 46.0 | 710 | 0.57 |
| | 26.0 | 980 | 253.4 | 53.5 | 590 | 0.57 |
| 250M | Available on request. | | | | | |

* Intermittent periodic duty type S3: Intermittent operation, consisting of identical load cycles with phases of constant load and then pauses. The frequency and size of the load on start-up must not have a significant influence on heating. Unless otherwise agreed a cycle time of 10 min is assumed. The relative switch-on period is given by the proportion of the operating time to the cycle time. Example: S3-60% switch-on time: 6 min. load - 4 min. pause

** other voltage ratings/frequencies on request

All motor data are based on realized windings. Project individual windings possible on request.



LONGITUDINAL FIN DESIGN IC410

4 Pole

| Motor Frame Size | Duty: S3*-60% | | | | | | |
|------------------|---------------|-----------------------|-------------------------|-------------------------|------------------------------------|-----------------------------|--|
| | Power kW | n rpm | Rated Torque Mn (Nm) | Rated Current In (A) | Acceleration Torque VFD MA (Nm) | Inertia kgm ² | |
| 100L | 1.5 | 1460 | 9.8 | 4.2 | 30 | 0.01 | |
| 112M | 2.2 | 1460 | 14.4 | 4.62 | 37 | 0.015 | |
| 132S | 3.0 | 1440 | 20.3 | 6.2 | 48 | 0.021 | |
| 132M | 4.0 | 1440 | 27.1 | 8.1 | 71 | 0.03 | |
| | 5.5 | 1440 | 36.5 | 11.0 | 84 | 0.03 | |
| 160M | 7.5 | 1460 | 48.9 | 14.0 | 126 | 0.075 | |
| 160L | 9.2 | 1460 | 59.9 | 16.7 | 157 | 0.092 | |
| 180M | 11.0 | 1470 | 71.4 | 20.6 | 173 | 0.136 | |
| 180L | 15.0 | 1470 | 97.6 | 27.0 | 235 | 0.156 | |
| 200L | 18.5 | 1470 | 119.6 | 33.0 | 318 | 0.3 | |
| 225S | 22.0 | 1480 | 141.9 | 39.5 | 318 | 0.47 | |
| 225M | 30.0 | Available on request. | | | | | |
| 250M | 37.0 | | | | | | |
| 280S | 45.0 | | | | | | |
| 280M | 55.0 | | | | | | |
| | 75.0 | | | | | | |
| 315S | 90.0 | | | | | | |



6 Pole

| Motor Frame Size | Duty: S3*-60% | | | | | |
|------------------|---------------|-----------------------|-------------------------|-------------------------|------------------------------------|-----------------------------|
| | Power kW | n rpm | Rated Torque Mn (Nm) | Rated Current In (A) | Acceleration Torque VFD MA (Nm) | Inertia kgm ² |
| 100L | 1.1 | 940 | 11.1 | 4.5 | 22 | 0.01 |
| 112M | 1.5 | 940 | 15.2 | 3.6 | 30 | 0.015 |
| 132M | 2.2 | 960 | 21.9 | 5.1 | 51 | 0.038 |
| | 3.0 | 960 | 29.8 | 6.2 | 65 | 0.042 |
| 160M | 4.0 | 970 | 39.4 | 8.6 | 85 | 0.075 |
| 160L | 5.5 | 970 | 54.1 | 11.5 | 118 | 0.092 |
| 180L | 7.5 | 970 | 73.8 | 15.0 | 175 | 0.156 |
| 200L | 11.0 | 970 | 108.3 | 21.8 | 270 | 0.3 |
| | 15.0 | 970 | 147.7 | 28.9 | 377 | 0.32 |
| 225M | 18.05 | 980 | 179.1 | 34.7 | 483 | 0.57 |
| 250M | 22.0 | 980 | 214.4 | 42.5 | 552 | 0.82 |
| 280S | 26.0 | 980 | 253.4 | 47.1 | 677 | 1.48 |
| 280M | 30.0 | 980 | 292.3 | 56.5 | 800 | 1.78 |
| | 37.0 | Available on request. | | | | |
| 45.0 | | | | | | |

* Intermittent periodic duty type S3: Intermittent operation, consisting of identical load cycles with phases of constant load and then pauses. The frequency and size of the load on start-up must not have a significant influence on heating. Unless otherwise agreed a cycle time of 10 min is assumed. The relative switch-on period is given by the proportion of the operating time to the cycle time. Example: S3-60% switch-on time: 6 min. load - 4 min. pause

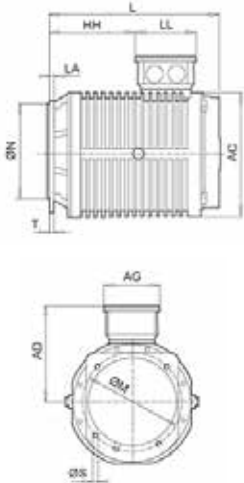
**other voltage ratings/frequencies on request

All motor data are based on realized windings. Project individual windings possible on request.



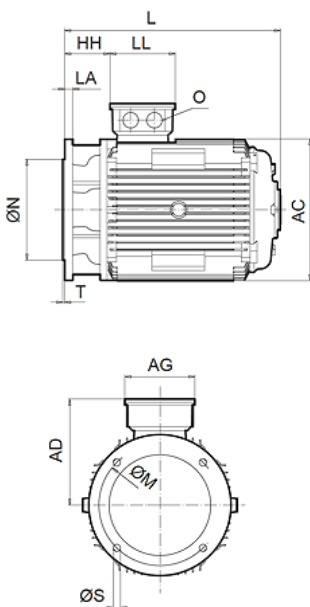
DIMENSIONS ROLLER TABLE MOTORS

Circular fin design - IC410



| Type | Flange | M | N | S | T | LA | AC | AD | AG | HH | L | LL | O |
|------|--------|-----|-------|---------|---|----|-----|-----|-----|-------|-----|-----|------------|
| 112M | 250S | 215 | 180j6 | 4 x Ø14 | 4 | 16 | 246 | 183 | 126 | 163,5 | 320 | 126 | 2x M25x1,5 |
| | 350S | 265 | 230j6 | 4 x Ø14 | 4 | 20 | 246 | 183 | 126 | 163,5 | 320 | 126 | 2x M25x1,5 |
| 132 | 250 | 215 | 180j6 | 4 x Ø14 | 4 | 16 | 285 | 208 | 126 | 231 | 394 | 126 | 2x M25x1,5 |
| | 250S | 215 | 180j6 | 4 x Ø14 | 4 | 16 | 285 | 208 | 126 | 231 | 394 | 126 | 2x M25x1,5 |
| 160M | 300S | 265 | 230j6 | 4 x Ø14 | 4 | 20 | 340 | 248 | 172 | 236 | 448 | 162 | 2x M40x1,5 |
| | 350 | 300 | 250h6 | 4 x Ø18 | 5 | 20 | 340 | 248 | 172 | 216 | 428 | 162 | 2x M40x1,5 |
| 160L | 300S | 265 | 230j6 | 4 x Ø14 | 4 | 20 | 340 | 248 | 172 | 280 | 492 | 162 | 2x M40x1,5 |
| | 350 | 300 | 250h6 | 4 x Ø18 | 5 | 20 | 340 | 248 | 172 | 260 | 472 | 162 | 2x M40x1,5 |
| 180L | 300 | 265 | 230j6 | 4 x Ø14 | 4 | 20 | 352 | 264 | 172 | 305 | 532 | 162 | 2x M40x1,5 |
| 200L | 300 | 265 | 230j6 | 4 x Ø14 | 4 | 20 | 425 | 311 | 220 | 319 | 603 | 200 | 2x M50x1,5 |
| 225M | 350 | 300 | 250j6 | 4 x Ø18 | 5 | 20 | 475 | 334 | 220 | 364 | 646 | 200 | 2x M40x1,5 |
| 250M | 450 | 400 | 350h6 | 8 x Ø18 | 5 | 22 | 515 | 373 | 258 | 362 | 694 | 228 | 2x M63x1,5 |

Longitudinal fin design - IC410



| Type | Flange | M | N | S | T | LA | AC | AD | AG | HH | L | LL | O |
|------|--------|-----|--------|---------|-----|----|-----|-----|-----|-----|------|-----|------------|
| 100L | 160S | 130 | 110j6 | 4 x Ø9 | 3,5 | 12 | 196 | 188 | 126 | 121 | 322 | 126 | 2x M25x1,5 |
| 112M | 250S | 215 | 180j6 | 4 x Ø14 | 4 | 16 | 220 | 190 | 126 | 116 | 318 | 126 | 2x M25x1,5 |
| 132S | 250 | 215 | 180j6 | 4 x Ø14 | 4 | 16 | 259 | 210 | 126 | 149 | 354 | 126 | 2x M25x1,5 |
| 132M | 250 | 215 | 180j6 | 4 x Ø14 | 4 | 16 | 259 | 210 | 126 | 168 | 392 | 126 | 2x M25x1,5 |
| 160M | 350 | 300 | 250h6 | 4 x Ø14 | 4 | 20 | 314 | 255 | 172 | 102 | 448 | 162 | 2x M40x1,5 |
| 160L | 350 | 300 | 250h6 | 4 x Ø18 | 5 | 20 | 314 | 255 | 172 | 82 | 472 | 162 | 2x M40x1,5 |
| 180M | 300 | 265 | 230j6 | 4 x Ø14 | 4 | 20 | 355 | 265 | 172 | 97 | 511 | 162 | 2x M40x1,5 |
| 180L | 300 | 265 | 230j6 | 4 x Ø14 | 4 | 20 | 355 | 265 | 172 | 97 | 549 | 162 | 2x M40x1,5 |
| 200L | 350 | 300 | 250h6 | 4 x Ø14 | 6 | 20 | 397 | 305 | 220 | 152 | 602 | 200 | 2x M50x1,5 |
| 225S | 350 | 300 | 250h6 | 4 x Ø18 | 5 | 20 | 446 | 330 | 220 | 152 | 602 | 200 | 2x M50x1,5 |
| 225M | 350 | 300 | 250h6 | 4 x Ø18 | 5 | 20 | 446 | 330 | 220 | 157 | 627 | 200 | 2x M50x1,5 |
| 250M | 450 | 400 | 350h6 | 8 x Ø18 | 5 | 22 | 485 | 368 | 258 | 149 | 694 | 228 | 2x M63x1,5 |
| 280S | 450 | 400 | 350h6 | 8 x Ø18 | 5 | 22 | 547 | 400 | 258 | 134 | 743 | 228 | 2x M63x1,5 |
| 280M | 450 | 400 | 350h6 | 8 x Ø18 | 5 | 22 | 547 | 400 | 258 | 134 | 794 | 228 | 2x M63x1,5 |
| 315S | 550 | 500 | 450js6 | 8 x Ø18 | 5 | 22 | 620 | 580 | 320 | 157 | 913 | 280 | 2x M63x1,5 |
| 315M | 550 | 550 | 450js6 | 8 x Ø18 | 5 | 22 | 620 | 580 | 320 | 157 | 1023 | 280 | 2x M63x1,5 |

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