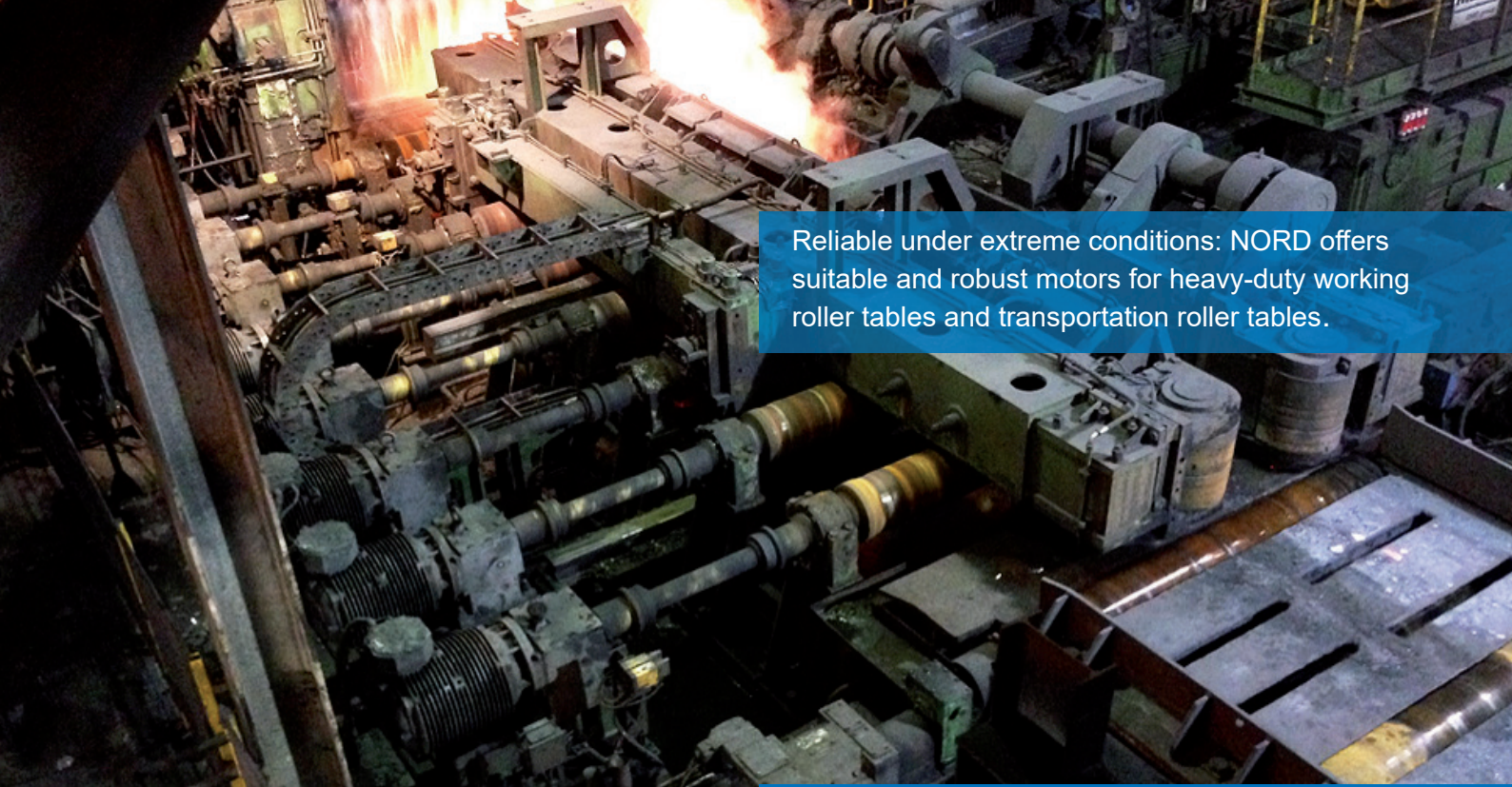


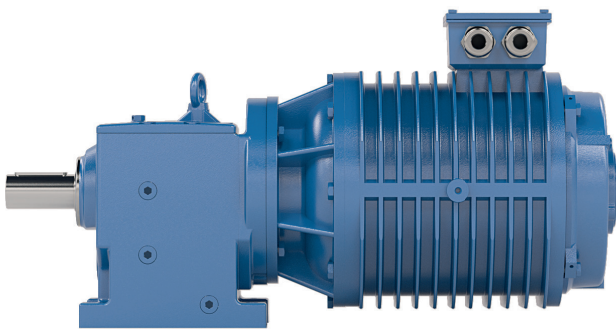
# HEAVY-DUTY MOTORS FOR ROLLER TABLE APPLICATIONS



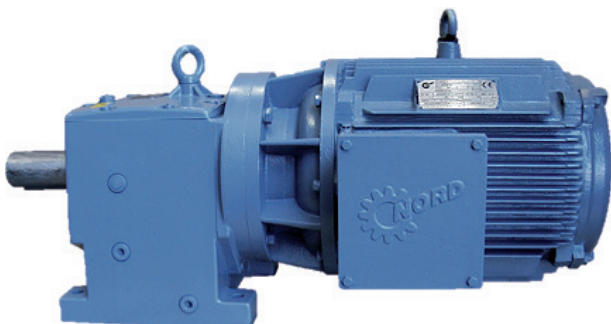
Reliable under extreme conditions: NORD offers suitable and robust motors for heavy-duty working roller tables and transportation roller tables.

## FEATURES AND BENEFITS

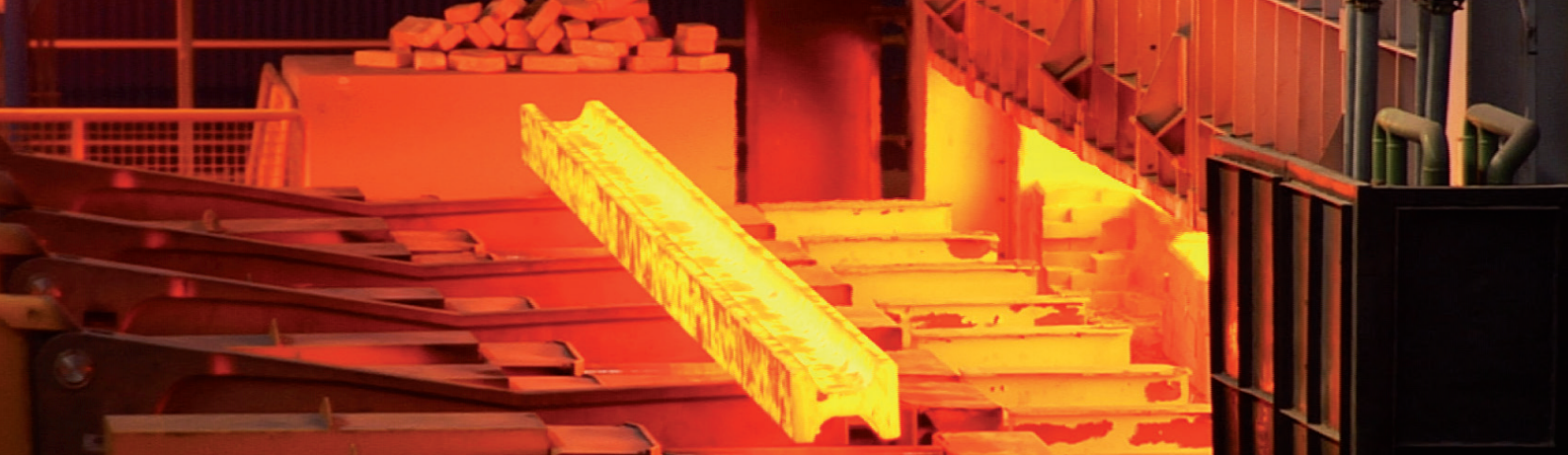
- Shock-absorbing cast iron housings EN-GJL-200 (GG20) and reinforced drive end shields made from robust ductile cast iron EN-GJS-400-15 (GGG40) ensure maximum resistance against mechanical stress.
- Individual project-based winding adaption possible
- Hard torque characteristics with high breakdown 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)



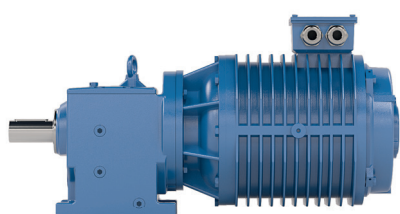
Roller table motor in circular fin design



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 <sup>2</sup>
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 <sup>2</sup>
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

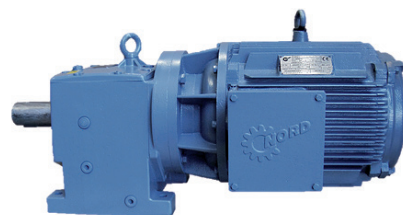
All motor data are based on realized windings. Project individual windings possible on request.



# 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 <sup>2</sup>
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					



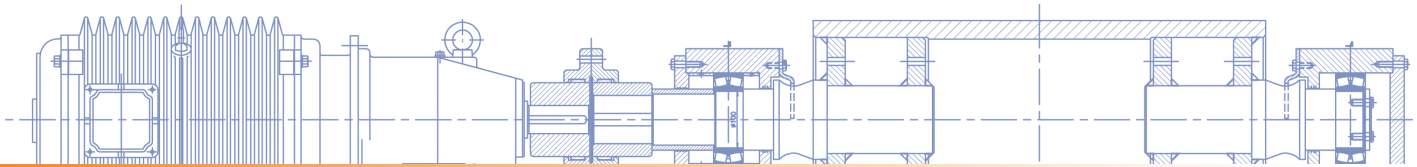
## 6 Pole

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 <sup>2</sup>
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

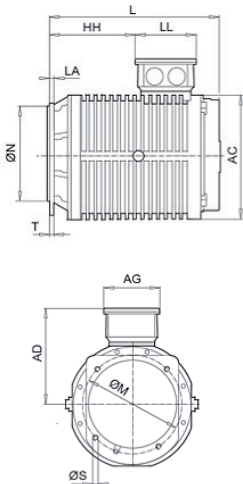
\*\*other voltage ratings/frequencies on request

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



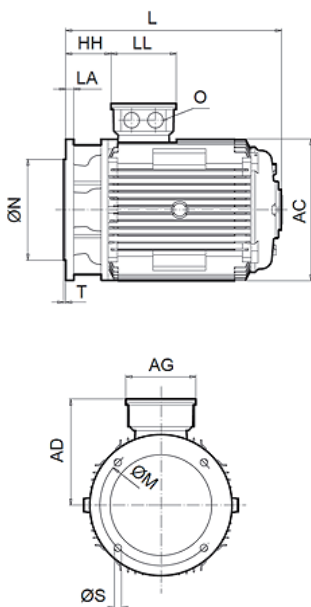
# DIMENSIONS ROLLER TABLE MOTORS

## 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	153	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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### Global Vision, Local Support

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