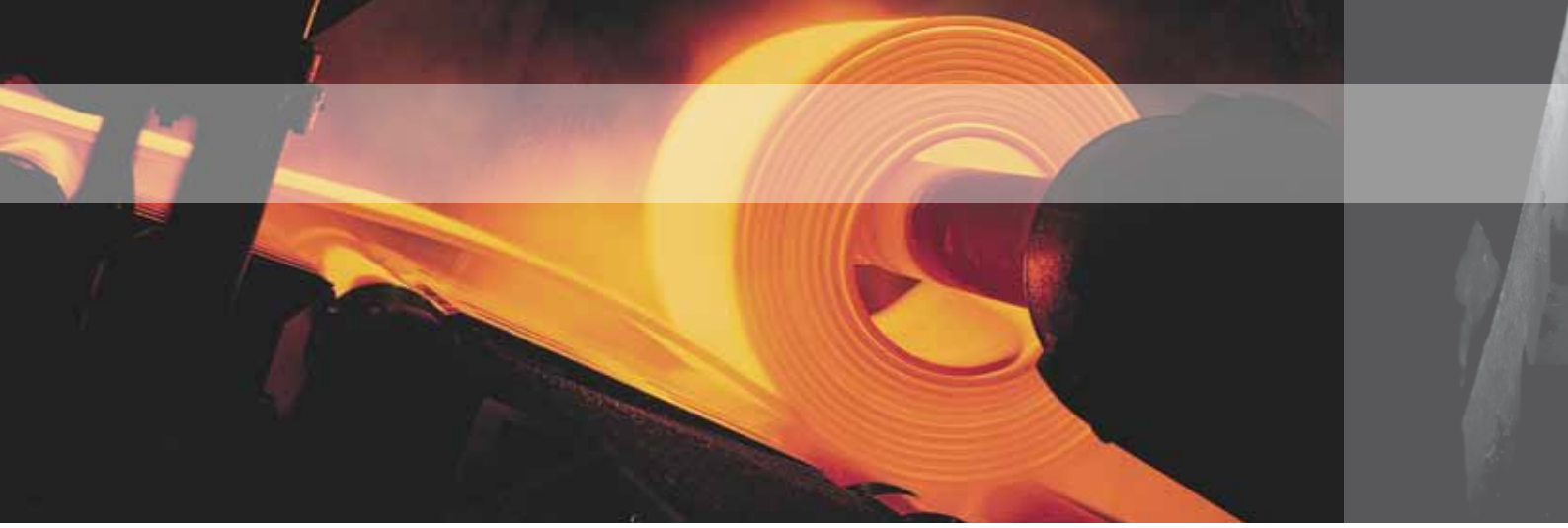
ELECTRIC DRIVES
FOR EVERY DEMAND

Roller table motors

Heavy duty design
for converter operation

VEM DRIVE
drive systems

www.vem-group.com



Roller table motors
Heavy duty design for converter operation

Drives for rolling mills

Robust to meet the toughest demands

The drive elements of the mill and driving tables in rolling mills are required to meet especially exacting electrical and mechanical demands. VEM roller table motors are ideally prepared to stand up to such extreme operating conditions, because they

- cope with all operating modes, such as continuous, intermittent and short-time duty, as well as start-up, braking and reversing functions
- withstand the high ambient temperatures of the molten steel
- handle the overloads arising should jammed stock block the transport system
- offer trouble-free synchronous operation of group drives also under changing loads
- have been demonstrating their function capabilities and reliability for many decades
- can be adapted perfectly to practically any individual drive requirements in converter-fed operation.

Internationally proven quality

VEM roller table motors are available in numerous versions. With windings designed specifically for con-verterfed operation, they satisfy all the demands placed on modern drive technologies with frequency converter control. VEM drives of this type are operating reliably for renowned European and global enterprises in the metallurgical industry.

Versatile and adaptable

Robust grey-cast versions with housings with circular ribs are ideally suited for the extreme conditions in roller mill operation. In converter-fed operation, the operational speeds can be adapted perfectly to practically any individual drive requirements. As the control span is generally in the lower frequency range, project-specific winding adaptation and the use of frequency converters with automatic voltage boosting or field-oriented control are recommended. The windings are optimised for converter-fed operation. To help with project planning detailed operational data sheets are available. They are based on windings in thermal class 155. As option it is also possible to choose thermal class 180. This can be uses especially for an increase in the frequency of operation.

In already existing, older installations it is also possible to revert to the heavy duty series ARB that was specially designed for mains operation and can survive a blocking period lasting several minutes.

Series	**ARC**
Sizes	112 to 400
Power range	0.04 – 290 kW
Type of protection	IP 55 acc. to IEC/EN 60034-5
Type of construction	IM B3, IM B35 and derived types of construction acc. to IEC/EN 60034-7
Type of cooling	IC 410 acc. to IEC/EN 60034-6

Heavy-duty roll table motors for converter-fed operation are very much in demand for rolling mills.

	4-pole 1500 rpm		6-pole 1000 rpm		8-pole 750 rpm		10-pole 600 rpm		12-pole 500 rpm	
	P_{eff} kW	M_{max} Nm	P_{eff} kW	M_{max} Nm	P_{eff} kW	M_{max} Nm	P_{eff} kW	M_{max} Nm	P_{eff} kW	M_{max} Nm
ARC 112 M	2.3	47	1.5	45	1.1	38	0.55	25	0.4	23
ARC 112 MX	2.5	49	1.9	57	1.5	54	0.8	35	0.6	30
ARC 112 MZ	3.0	60	2.2	66	1.7	65	0.85	40	0.7	40
ARC 132 S	3.0	61	2.6	79	1.8	57	1.1	50	0.8	45
ARC 132 M	4.4	93	3.5	103	2.5	87	1.5	75	1.1	60
ARC 132 MX	6.2	120	4.2	130	3.0	110	1.8	90	1.5	90
ARC 160 S	5.5	105	4.8	145	3.6	117	2.8	135	1.5	90
ARC 160 M	7.7	150	6.5	195	5.0	174	3.0	150	2.75	165
ARC 160 MX	8.0	160	-	-	-	-	-	-	-	-
ARC 160 L	10.2	200	7.0	205	7.3	255	4.0	200	3.0	180
ARC 180 S	8.8	175	7.6	228	6.5	257	4.5	225	3.0	180
ARC 180 M	11.0	215	9.5	283	7.5	316	6.5	330	4.5	270
ARC 180 MX	14.0	270	11.0	320	8.0	325	7.0	350	5.5	320
ARC 200 M	15.0	307	12.5	373	9.0	390	8.5	420	6.5	390
ARC 200 L	18.5	367	15.0	450	11.0	410	9.0	440	7.0	420
ARC 200 LX	20.0	380	19.5	580	14.0	520	-	-	-	-
ARC 225 M	22.0	425	16.5	496	13.0	480	11.0	540	8.5	510
ARC 225 MX	25.0	480	18.0	535	14.0	540	12.0	600	9.0	540
ARC 250 S	32.0	624	27.0	706	17.5	590	13.5	660	10.0	600
ARC 250 M	40.0	778	22.0	540	22.0	715	17.0	840	12.0	705
ARC 280 S	50.0	968	37.0	1075	28.0	1040	22.5	1080	18.5	1080
ARC 280 M	60.0	1169	44.0	1265	35.0	1320	27.5	1350	22.5	1320
ARC 280 MX	70.0	1330	48.0	1608	37.0	1685	37.5	1800	27.5	1650
ARC 315 M	95.0	1780	75.0	1945	55.0	2100	45.0	2190	30.0	1790
ARC 315 L	132.0	2040	90.0	2140	68.0	2140	55.0	2670	37.5	2190
ARC 315 LX	150.0	2884	100.0	2800	85.0	2724	60.0	2050	45	2640
ARC 355 M	160.0	3066	140.0	4031	90.0	3461	68.0	3274	55	3216
ARC 355 MX	-	-	160.0	4607	110.0	4230	80.0	3852	66	3859
ARC 400 L	240.0	6340	210.0	6400	170.0	6450	-	-	110.0	6000
ARC 400 LX	290.0	7500	240.0	7460	200.0	7750	-	-	132.0	7320

Please refer to our catalogues for technical details. The catalogues are available in printed or in digital version on DVD. They are also available in the internet.

VEM/05-011 **E**/0315 Printed in Germany. Subject to change.

VEM Holding GmbH

Pirnaer Landstraße 176
D-01257 Dresden

Phone: +49 351 208-0
Fax: +49 351 208-1028

VEM Sales

Low voltage

Phone: +49 3943 68-0
E-Mail: motors@vem-group.com

High voltage

Phone: +49 351 208-0
E-Mail: sachsenwerk@vem-group.com

Drive systems

Phone: +49 30 9861-2104
E-Mail: transresch@vem-group.com

For detailed information
please visit our website.

www.vem-group.com