Geared Motors RBM/I for travel wheel systems

Material: Housing: Aluminium, painted blue (RAL 5009). Gears: bevel-gear system, case hardened, fatigue endurable.

Lubrication: Mineral oil. **Motor:** Three-phase AC

400 V 50 Hz, dual speed, with brake.

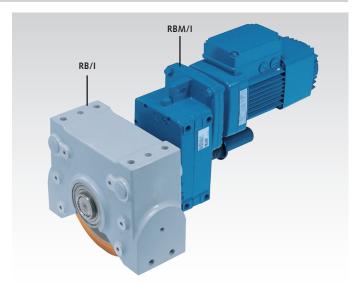
Other motor and gear box versions (e.g. with frequency inverter or angular gear) on request.

Ready-to-mount dual-speed geared motors incl. adaptor flange (as torque support) to be combined with travel-wheel sets RB/I. The mounting position can be modified in steps of 15°.

Single Wheel Drive: one geared motor RBM/I is flange-mounted onto one travel-wheel system RB/I. In carriages two opposing travel-wheel sets have to be powered.

Central Drive Set: the geared motor is flange-mounted onto the travel-wheel system. The connection with the opposing travel-wheel system is done with a central drive set (this set has to be ordered separately). The connecting shaft (output shaft) is already mounted on the geared motors (covered with protection sleeve and protection cap).

Ordering Details:e.g.: Product No., Type, Size



Travel-Wheel System RB/I has to ordered separately.

Geared Motors RBM/I for Travel-Wheel System Size 200

Product No.	Motor- Type	P* kW	Transm. i	Current*	Weight kg	Dimensions Table
482 211 46	63A8/2	0,25	123 :1	0,95	23	1
482 212 46	71A8/2	0,34	126 :1	1,0	29	3
482 213 46	80A8/2	0,50	39,9:1	1,4	34	2
482 214 46	90B8/2	0,80	39,4:1	2,3	46	4
482 215 46	100A8/2	1,20	19,9 :1	3,2	54	4
482 221 46	63A8/2	0,25	135 :1	0,95	27	3
482 222 46	71A8/2	0,34	44,1 :1	1,0	25	1
482 223 46	90B8/2	0,50	45,5 :1	1,4	46	4
482 224 46	90B8/2	0,80	23 :1	2,3	46	4

Geared Motors RBM/I for Travel-Wheel System Size 250

Product No.	Motor- Type	P* kW	Transm. i	Current*	Weight kg	Dimensions Table
483 231 46	63A8/2	0,25	156 :1	0,95	29	5
483 232 46	71A8/2	0,34	166 :1	1,0	34	8
483 233 46	90B8/2	0,80	48,3 :1	2,3	47	7
483 234 46	100A8/2	1,20	49 :1	3,2	66	9
483 235 46	100A8/2	1,20	25,3 :1	3,2	55	7
483 241 46	63A8/2	0,25	156 :1	0,95	29	5
483 242 46	71A8/2	0,34	166 :1	1,0	34	8
483 243 46	80A8/2	0,50	55,7 :1	1,4	39	6
483 244 46	90B8/2	0,80	55,7 :1	2,3	58	9
483 245 46	100A8/2	1,20	29,2 :1	3,2	55	7

Selection Tales for Travel-Wheel Systems

First the Travel-Wheel-System Size (200 or 250 depending on the ultimate load) and Type of Travel Wheel (cast iron flanged wheel or Hydropur-tyre wheel, depending on the operating conditions)

has to be selected. The further selection is done according to the load to be moved per driving motor and according to the driving speed. the table value intersection point states the Product No. of the geared motor to be used.

Travel-Wheel System Size 200 with Cast Wheel, R_{max.} = 2500 kg

Product No. matching geared motor RBM/I at speed in m/min*

Weight	12.5 (3.1)	40 (10)	80 (20)
to 5000 kg	482 211 46**	482 213 46**	482 215 46
to 6000 kg	482 211 46**	482 213 46**	-
to 10000 kg	482 212 46	482 214 46	-
to 11000 kg	482 212 46	-	-

^{*} Values in brackets apply to lower speeds (the motors are dual-speed).

Travel-Wheel System Size 200 with Hydropur Tyre $R_{\text{max.}}$ = 1200 kg

Product No. matching geared motor RBM/I at speed in m/min*

Weight	12.5 (3.1)	40 (10)	80 (20)
to 2000 kg	482 221 46	482 222 46**	482 224 46
to 4000 kg	482 221 46	482 223 46	-
to 5000 kg	482 221 46	482 223 46	-

Travel-Wheel System Size 250 with Cast Wheel, $R_{max.}$ = 3500 kg

Product No. matching geared motor RBM/I at speed in m/min

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We	ight	12.5 (3.1)	40 (10)	80 (20)					
to	5000 kg	483 231 46**	483 233 46**	483 235 46**					
to	8000 kg	483 231 46**	483 233 46**	-					
to 1	16000 kg	483 232 46	483 234 46	-					

Travel-Wheel System Size 250 with Hydropur Tyre, R_{max.} = 1700 kg

Product No. matching geared motor RBM/I at speed in m/min*

Weight	12.5 (3.1)	40 (10)	80 (20)
to 2000 kg	483 241 46**	483 243 46**	483 245 46**
to 4000 kg	483 242 46	483 244 46	-

^{*} Values in brackets apply to lower speeds (the motors are dual-speed). ** Central drive not possible.









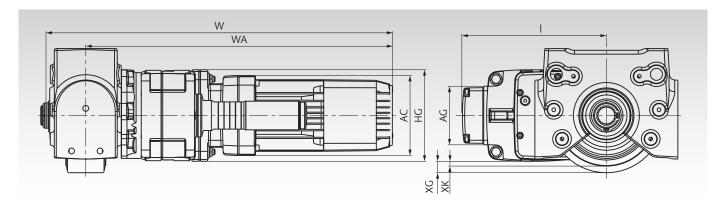




^{*} Values at double-pole operation (high speeds).

^{**} Central drive not possible (due to stepped shaft or dimensions of motor casing).

Dimensions Table for Travel-Wheel System Drive RBM/I



Dimensions	Size of Travel-	L	HG	W	WA	AC	AG	XG (Vers.G)	XK (Vers.K)
Table	Wheel System	mm	mm						
1	200	228	131	608	539	140	103	17,5	30
2	200	238	131	664	595	157	103	9	21,5
3	200	253	160	615	546	140	103	7,5	20
4	200	281	160	715	646	196	133	-10,5	2
5	250	253	160	641	563	140	103	30	45
6	250	263	160	697	619	157	103	30	45
7	250	281	160	741	663	196	133	12	27
8	250	272	190	650	572	140	103	15	30
9	250	300	190	750	672	196	133	12	27

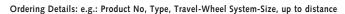
Central Drive Set

Material: Splined shaft, coupling, washers and rings made from steel, shaft protection made from plastic.

Two sizes available suiting travel-wheel system 200 and 250. Two length for gauges up to 1500 mm or up to 2900 mm.

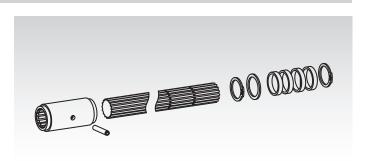
Consisting of: Splined shaft, coupling with pin, shaft protection, washers and retaining rings.

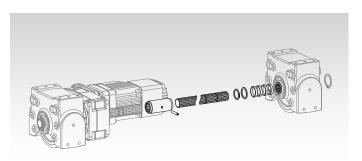
The central-drive set serves to combine two travel-wheel sets RB/I with a geared motor RBM/I to make up a central drive. To achieve this, the shaft is shortened to the required length on the coupling side, then the shaft protection cap is taken off the geared motor and the shafts are connected using the rigid coupling. The pin serves as stop inside the coupling. The shaft is fixed in the travel-wheel system with the retaining rings.



Product No. Travel-Wheel Syst. for Distance*Shaft Ø Shaft Length Weight							
	Size	up to mm	mm	approx. mm	kg		
480 256 84	200	1500	35	1115	9		
480 257 84	200	2900	35	2515	18,5		
480 356 84	250	1500	45	1070	13,5		
480 357 84	250	2900	45	2470	29		

^{*} The shafts are to be shortened by the customer on assembly.

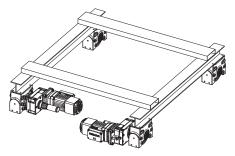




Application examples for Travel-Wheel System Drives

Two Single Drives:

- 4 x Travel-Wheel System RB/I
- 2 x Geared Motor RBM/I
- Optional accessories:
- 4 x Buffer Set
- 4 x Pin Connection Set
- 2 x Horizontal Guide Roller Arrangement



Central Drive Set:

- 4 x Travel-Wheel System RB/I
- 1 x Geared Motor RBM/I
- 1 x Central Drive Set

Optional accessories:

- 4 x Buffer Set
- 4 x Pin Connection Set
- 2 x Horizontal Guide Roller Arrangement

