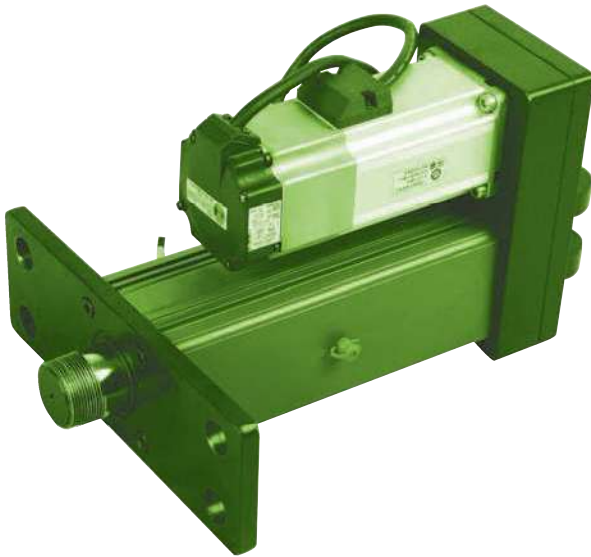


「 DMB SERIES BALL SCREW SERVO ACTUATOR 」

Working principle:

DMB Servo actuator use a designed ball screw mechanism for converting electric motor power in to linear motion within the actuator, and converting precise revolution control , precise torque , precised speed in to precise speed , position and load control. Widely apply in high precision machining, testing, 6DOF, Injection, Robot, Valve control, Machine tool, etc.



Features:

DMB series servo actuator could work trouble free in harsh environment with high strength, speed and precision. Antirotation device assured precision position control and security.

Replacement of Hydraulic and Pneumatic actuator:

Electric servo linear actuator are best replacement of Hydraulic and Pneumatic actuator, to reduce leakage and more environmental.

Harsh application:

Protection class IP65 will satisfy with most of out door harsh ambient such as Paper, chemical, Welding application.

Performance DMB:

Load range: From 10kgs - 100 tons

Stroke: maximum 3 meters. Duty cycle :100%

High Efficiency ground and rolled ball screw

Equipped with various brands imported servo motor, stepping motor.

Add the grating ruler to realize closed-loop servo control, and the control accuracy reaches 0.01mm.

Precise force control, control precision 5%, Optional load sensor increases precision 1%.

Precise speed control.

Maintain force in any position.

High response time and Acceleration.

High rigidity, impact resistance.

Long lifespan, simple operation and maintenance, low noise.

Normal working temperature: -20°C ~ + 60°C;

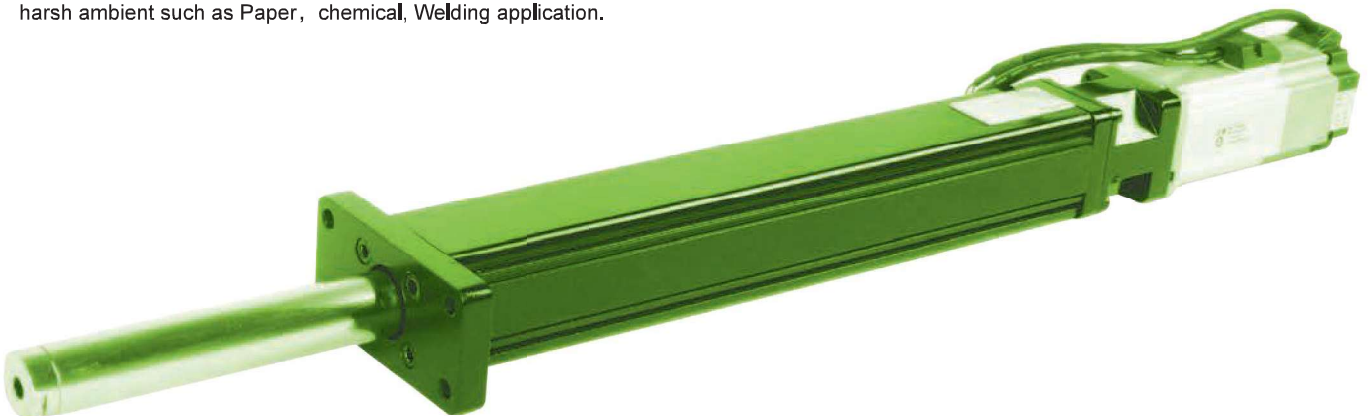
Consult with Lim-Tec engineers for the temperature below -40°C or above +100°C

Low Maintenance Cost:

Servo actuators working in complex environments only require regular grease lubrication and do not have easily damaged parts that need maintenance and replacement. It will reduce a significant amount of after-sales service costs compared to hydraulic systems.

Flexibility:

Flexible mounting : Front flange, rear flange , side flange, rear clevis , trunnion etc. Actuator can be inline or parallel with motor. Multifunction accessory , Limit switch, planet gear reducer, pre-load etc.



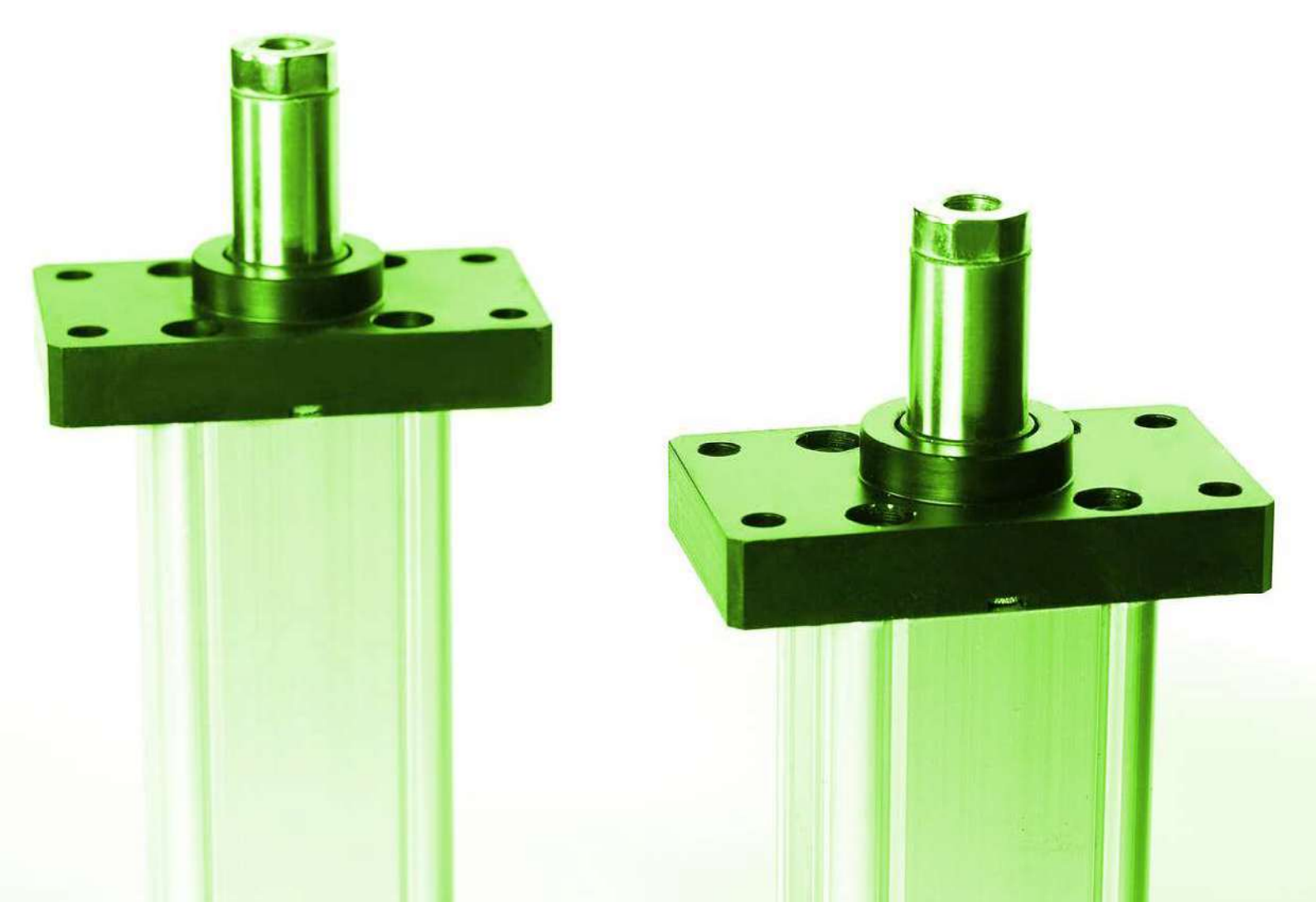
Performance table:

Model	DMB05	DMB10	DMB20	DMB30			DMB35			DMB40			DMB45			DMB50			DMB60	DMB70			DMB80			DMB100			DMB200			DMB500					
Lead mm	4	4	5	10	5	10	25	10	20	10	20	10	20	10	20	10	20	10	20	10	20	16	20	32	20	25	32	20	25	32	20	25	32				
Rated force KN	0.6	1	5	4.8	8.5	13	8.7	15	10	25	15	35	25	50	30	55	60	80	100	100	150	100	150	150	200	200	300	300	500	500	500	500					
Max. Speed mm/s	200	333	275	550	166	332	830	417	833	250	500	250	500	417	500	167	333	167	333	233	292	467	292	365	467	233	292	373	183	229	293						
Torque at rated force Nm	0.28	0.99	5.529	10.7	9.4	28.75	48.89	37.2	49.7	61.925	66.348	62.20	74.64	110	131.37	121.64	265.39	199.04	497.61	333	624	999	995.22	1244.03	1592.36	1244.03	1866.04	2388.54	1741.64	2177.05	2786.62						
Dynamic load of Ball Screw KN	4	5	10.5	12	17	28	16.5	36.8	19	45	39	45	39	83.5	45.7	62.4	90.8	68.1	115.8	200	305	305	305	305	310	310	310	308	350	457	456						
Parallel mounting inertia Kg·m ² ·10 ⁻⁴	0.028	0.042	0.1	0.18	1.388	2.409	2.527	5.698	6.036	14.61	14.913	14.61	14.91	76.913	79.609	82.79	83.545	82.79	83.545	196.66	200.61	205.24	250.32	260.36	270.65	250.32	260.36	270.65	450.32	455.69	466.58						
Inline coupling inertia Kg·m ² ·10 ⁻⁴	0.013	0.027	0.08	0.09	0.763	0.784	0.885	4.569	5.874	5.418	5.721	5.42	5.72	32.793	33.489	53.36	54.127	53.36	54.127	150.53	154.63	160.63	220.45	230.69	240.57	220.45	230.69	240.57	400.26	412.54	425.38						
Inertia/100mm Kg·m ² ·10 ⁻⁴	0.008	0.016	0.052	0.056	0.303	0.309	0.355	1.069	1.127	1.989	2.041	1.99	2.04	4.83	4.83	12.1	12.1	12.1	12.1	31.742	31.85	32.318	45.32	55.25	58.76	45.32	55.25	58.76	45.32	55.25	58.76						
Max. Stroke mm	200	300	500	800	1000			1200			1500			2000			2500			2800			3000														
Max. input rpm	4500	4000	3000	2750	2500			1500			1500			1000			1000			1000			1000														
Max. Acceleration m/s ²	6	3	3	6	3	6	10	6	8	6	10	6	10	6	10	6	10	6	10	3	6	10	3	6	10	3	6	10	3	6	10						
Weight (Without motor) kg	0.75	1.27	6.9	15.3	23.7			32.4			35.6			76.9			120.3			127.8			132.6			150.68			168.7			180.85					
Weight per 100mm stroke kg	0.33	0.5	1	1.3	2.1			3.2			3.5			4.8			6.5			10.2			14.3			18			23			25					
SCREW TYPE	Standard configuration is rolled ball screws, ground ball screws are available with the model number marked specially as "GB". Standard configuration is ground ball screws.																																				
Max.idling angle	±0.3	± 0.3	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25	± 0.3	± 0.25	± 0.15	± 0.15	± 0.15	± 0.15	± 0.15	± 0.15	± 0.15	± 0.15	± 0.15	± 0.1	± 0.1	± 0.1					
Axial backlash mm	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05-0.06	0.06	0.03-0.05			0.02-0.04			0.02-0.04			0.02-0.04			0.02-0.04			0.02-0.04						
Lead Tolerance within 300mm/mm	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05					
	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023					
Repeat accuracy mm	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				

Coding :

Series	Size	Lead	Stroke	Mounting	Front attachment	Input version	Accessories	Motor
DMBSeries	05	5	100	FF Front Flang	BA Female thread	NMT Drive shaft Only	AR Anti-Rotate device	Lenze
FMRSeries	10	10	200	RF Rear Flange	FM Male thread	G05 Planetary gearing5:1 ratio	FCM Magnetic reed switches	Siemens
EMBSeries	20	20	300	RC Rear clevis	ROE Rod end	GX Planetary gearing special ratio	FCP Inductive proximity switches	Yaskawa
DMASeries	30	25	400	ST Trunnion	TS Ball joint	SC Inline including motor flange	SP Rear bracket	Panasonnic
	40	30	500	SH Side mount	FO Clevis end	P10 Parallel 1:1 ratio	B Bellow	Mitsubishi
	45	50	600	SF Side Flange	FL Flange end	P20 Parallel 2:1 ratio	PF Pre-load	FUJI
	50		700	GM Guide mounion	TC Bearing support	PGXX Gear housing	PL Load Sensor	Other
	60		800		FZ Anti-impact attachment		GB Ground ball screw (DMB5-60)	
	80		900					
	100		1000					
	200		Special					
	500							

Coding
DMB - 40 - 10 - 300 - FF - FO - P10 - FCP - SGMGH20A A



Lifetime calculation:

Theoretically Ball screw lifetime L10 is 90% of stroke ability that screw could reach before metal fatigue, Unit is million millimeter. Theoretically lifetime is not guarantee lifetime. In order to reach max. Lifetime the screw need been appropriate maintainence and lubricate.

If the theoretically lifetime need higher than 90%, need multiply follow coefficient

95%: L10 x 62% 96%: L10 x 53% 97%: L10 x 44%
98%: L10 x 33% 99%: L10 x 21%

Standard Nut lifetime calculation:

$$L10 = (C/F_m)^3 \times S$$

L10: Theoretically Lifetime km

C: Rated Dynamic load N S: Screw Lead mm

Pre-load Nut lifetime calculation:

$$L10 = (L10(1)^{-10/9} + L10(2)^{-10/9})^{-9/10}$$

L10(1) Extending direction theoretically lifetime, formula same as standard nut

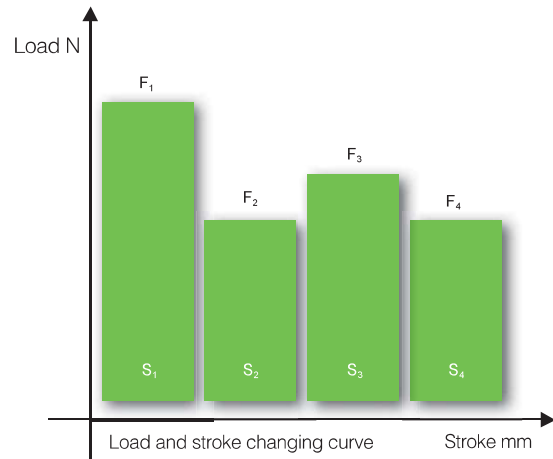
L10(2) Retract direction theoretically lifetime , formula same as standard nut

The dynamic load rating of zero backlash, pre-loaded screws is 63% of the dynamic load rating of standard non-preloaded screws,

The calculated lifetime of preloaded screw will be 25% of the calculated lifetime of same size standard non-preloaded screw.

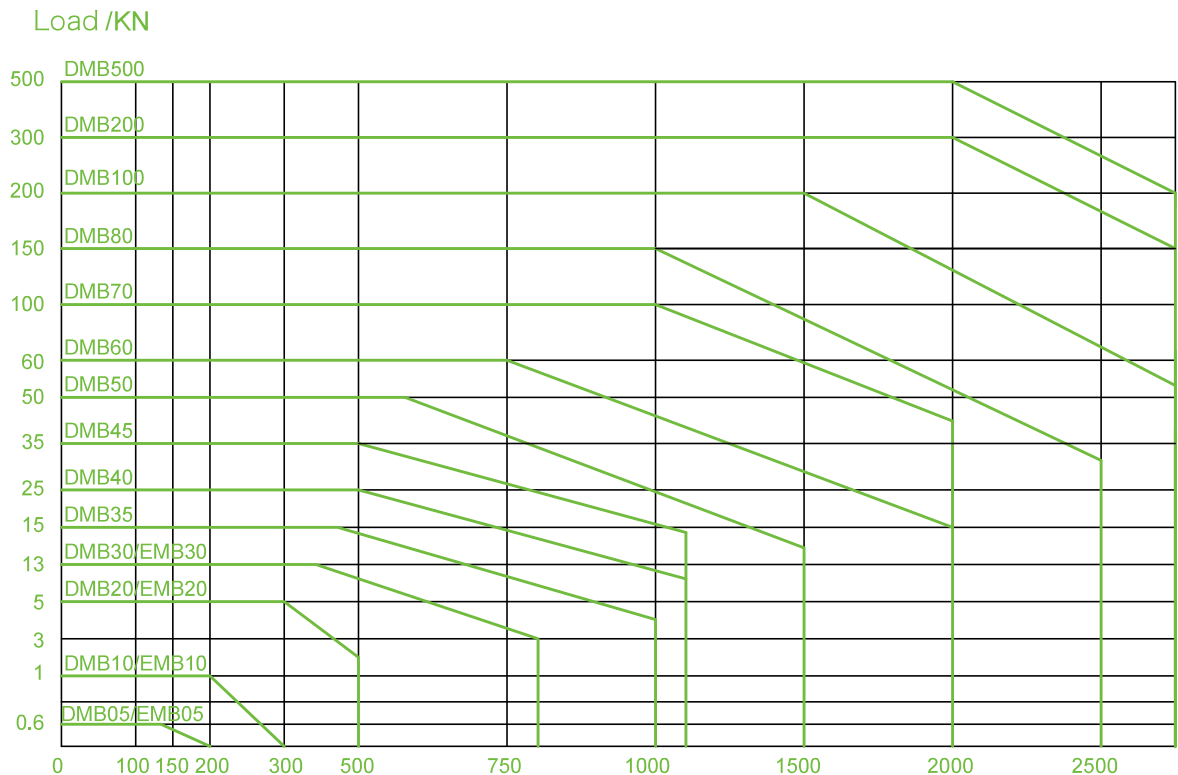
Mean load calculation:

In order to calculate accurate lifetime of roller screw, we need get weighted mean load.



$$F_m = 3 \sqrt{\frac{F_1^3 S_1 + F_2^3 S_2 + F_3^3 S_3 + F_4^3 S_4}{S_1 + S_2 + S_3 + S_4}}$$

Critical Buckling Force Graphs:



Note: It is the stability curve of the servo cylinder with front and rear clevis mounting. For other mounting mode, please consult with Lim-Tec engineer for confirmation.

Stable length L mm

Speed and stroke table:

Model	DMB05	DMB10	DMB20	DMB30			DMB35		DMB40	DMB45	DMB50	DMB60	DMB70	DMB80			DMB100			DMB200			DMB500					
Lead mm	4	4	5	10	5	10	25	10	20	10	20	10	20	10	20	16	20	32	20	25	32	20	25	32	20	25	32	
Stroke	Maximum speed for different strokes mm/s																											
50-300mm	200	333	275	550	166	332	830	417	833	250	500	167	333	167	333	233	292	467	292	365	467	233	292	373	183	229	293	
450mm			275	550	166	332	830	417	833	250	500	167	333	167	333	233	292	467	292	365	467	233	292	373	183	229	293	
600mm					166	332	830	417	833	250	500	167	333	167	333	233	292	467	292	365	467	233	292	373	183	229	293	
750mm					166	332	830	417	833	250	500	167	333	167	333	233	292	467	292	365	453	233	292	373	183	229	293	
1000mm								250	800	226	452	226	452	170	330	167	333	292	467	292	365	453	233	292	373	183	229	293
1250mm										226	452	226	452	170	330	167	333	167	226	360	283	360	233	292	373	183	229	293
1500mm												170	330	160	320	152	226	180	226	360	283	360	233	292	373	183	229	293
1600mm												160	320	152	226	180	226	360	226	283	360	233	292	360	183	229	293	
1800mm												160	320	152	226	180	226	360	226	283	360	233	292	360	183	229	293	
2000mm												160	320	152	180	140	180	280	180	226	288	160	200	260	160	200	260	
2200mm																140	180	280	180	226	288	160	200	260	160	200	260	
2400mm																140	180	280	180	226	288	160	200	260	160	200	260	
2800mm																			180	226	288	160	200	260	160	200	260	

Please contact us and confirm the stability if the stroke exceed standard stroke.

DMB05 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 3000rpm mm/s	Actual load N										Max.linear speed mm/s
					600		300		200		100		50		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB05-04	4	Parallel 1:1	NON	200	0.188	0.597	0.094	0.299	0.063	0.199	0.063	0.199	0.063	0.199	200
		Inline shaft coupling 1:1	NON	200	0.167	0.531	0.083	0.265	0.056	0.177	0.056	0.177	0.056	0.177	200

DMB10 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 3000rpm mm/s	Actual load N										Max.linear speed mm/s
					1000		800		500		300		100		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB10-04	4	Parallel 1:1	NON	200	0.313	0.995	0.250	0.796	0.156	0.498	0.094	0.299	0.094	0.299	333
			1:3	67	0.110	0.349	0.088	0.279	0.055	0.175	0.033	0.105	0.033	0.105	333
			1:5	40	0.066	0.210	0.053	0.168	0.033	0.105	0.020	0.063	0.020	0.063	333
		Parallel 2:1	NON	100	0.156	0.498	0.125	0.398	0.078	0.249	0.047	0.149	0.047	0.150	333
		Inline shaft coupling 1:1	NON	200	0.278	0.885	0.222	0.708	0.139	0.442	0.083	0.265	0.083	0.265	333
			1:3	67	0.098	0.310	0.078	0.248	0.049	0.155	0.029	0.093	0.029	0.093	333
			1:5	40	0.059	0.186	0.047	0.149	0.029	0.093	0.018	0.056	0.018	0.056	333

DMB20 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 3000rpm mm/s	Actual load N										Max.linear speed mm/s
					5000		3500		1500		1000		500		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB20-05	5	Parallel 1:1	NON	250	1.912	6.088	1.339	4.262	0.574	1.827	0.383	1.218	0.191	0.609	275
			1:3	83	0.671	2.136	0.470	1.495	0.201	0.641	0.134	0.427	0.067	0.214	275
			1:5	50	0.403	1.282	0.281	0.897	0.121	0.385	0.081	0.237	0.040	0.128	275
			1:10	25	0.202	0.641	0.141	0.449	0.061	0.193	0.041	0.119	0.020	0.064	275
		Parallel 2:1	NON	125	0.956	3.044	0.670	2.131	0.287	0.914	0.192	0.609	0.096	0.305	275
		Inline shaft coupling 1:1	NON	250	1.738	5.535	1.217	3.875	0.522	1.661	0.348	1.107	0.174	0.554	275
			1:3	83	0.610	1.942	0.427	1.359	0.183	0.583	0.122	0.388	0.061	0.195	275
			1:5	50	0.366	1.165	0.255	0.815	0.110	0.350	0.074	0.215	0.036	0.116	275
1:10	25		0.184	0.583	0.128	0.408	0.055	0.118	0.037	0.108	0.018	0.058	275		
					4800	3500	1500	1000	500						
DMB20-10	10	Parallel 1:1	NON	500	3.531	11.240	2.575	8.196	1.104	3.513	0.736	2.342	0.368	1.171	550
			1:3	167	1.239	3.944	0.904	2.876	0.387	1.233	0.258	0.822	0.129	0.411	550
			1:5	100	0.743	2.366	0.542	1.718	0.232	0.740	0.155	0.493	0.077	0.247	550
			1:10	50	0.372	1.183	0.271	0.859	0.116	0.370	0.078	0.247	0.039	0.124	550
		Parallel 2:1	NON	250	1.766	5.620	1.288	4.098	0.552	1.756	0.368	1.171	0.184	0.586	550
		Inline shaft coupling 1:1	NON	500	3.210	10.218	2.341	7.451	1.004	3.194	0.669	2.129	0.335	1.065	550
			1:3	167	1.126	3.585	0.822	2.615	0.352	1.121	0.235	0.747	0.117	0.374	550
			1:5	100	0.675	2.151	0.493	1.562	0.211	0.673	0.141	0.448	0.070	0.225	550
			1:10	50	0.338	1.076	0.247	0.781	0.106	0.337	0.071	0.224	0.035	0.113	550

DMB30 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 1500rpm mm/s	Actual load N										Max.linear speed mm/s
					8500		6000		4000		2000		1000		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB30-05	5	Parallel 1:1	NON	125	1.661	10.574	1.172	7.464	0.782	4.976	0.391	2.488	0.195	1.244	166
			1:3	42	0.583	3.710	0.411	2.619	0.274	1.746	0.137	0.873	0.069	0.437	166
			1:5	25	0.350	2.226	0.247	1.571	0.165	1.048	0.082	0.524	0.041	0.262	166
			1:10	13	0.175	1.113	0.123	0.786	0.082	0.524	0.041	0.262	0.021	0.131	166
			1:20	6	0.092	0.587	0.065	0.415	0.043	0.276	0.022	0.138	0.011	0.069	166
			1:50	3	0.037	0.235	0.026	0.166	0.017	0.111	0.009	0.055	0.004	0.028	166
		Parallel 2:1	NON	63	0.830	5.287	0.586	3.732	0.391	2.488	0.195	1.244	0.098	0.622	166
		Inline shaft coupling 1:1	NON	125	1.476	9.399	1.042	6.635	0.695	4.423	0.347	2.212	0.174	1.106	166
			1:3	42	0.518	3.298	0.366	2.328	0.244	1.552	0.122	0.776	0.061	0.388	166
			1:5	25	0.311	1.979	0.219	1.397	0.146	0.931	0.073	0.466	0.037	0.233	166
			1:10	13	0.155	0.989	0.110	0.698	0.073	0.466	0.037	0.233	0.018	0.116	166
			1:20	6	0.082	0.522	0.058	0.369	0.039	0.246	0.019	0.123	0.010	0.061	166
			1:50	3	0.033	0.209	0.023	0.147	0.015	0.098	0.008	0.049	0.004	0.025	166

Model	Lead mm	Reducer	Ratio	Speed at 1500rpm mm/s	Actual load N										Max.linear speed mm/s
					12500		10000		8000		5000		2500		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB30-10	10	Parallel 1:1	NON	250	4.781	30.442	3.825	24.354	3.060	19.483	1.913	12.177	0.957	6.089	332
			1:3	83	1.678	10.683	1.342	8.545	1.074	6.836	0.671	4.273	0.336	2.136	332
			1:5	50	1.007	6.409	0.805	5.127	0.644	4.102	0.403	2.564	0.201	1.282	332
			1:10	25	0.503	3.205	0.403	2.564	0.322	2.051	0.202	1.282	0.101	0.641	332
			1:20	13	0.252	1.603	0.202	1.282	0.161	1.026	0.101	0.641	0.051	0.321	332
			1:50	5	0.101	0.641	0.081	0.513	0.064	0.410	0.040	0.256	0.020	0.128	332
		Parallel 2:1	NON	125	2.391	15.221	1.913	12.177	1.530	9.742	0.957	6.089	0.479	3.045	332
			NON	250	4.346	27.675	3.477	22.140	2.782	17.712	1.739	11.070	0.870	5.535	332
		Inline shaft coupling 1:1	1:3	83	1.525	9.712	1.220	7.768	0.976	6.215	0.610	3.885	0.305	1.942	332
			1:5	50	0.915	5.826	0.732	4.661	0.585	3.729	0.366	2.331	0.183	1.165	332
			1:10	25	0.457	2.914	0.366	2.331	0.293	1.865	0.184	1.165	0.092	0.583	332
			1:20	13	0.229	1.457	0.183	1.166	0.147	0.933	0.092	0.583	0.046	0.292	332
			1:50	5	0.091	0.583	0.073	0.466	0.059	0.373	0.037	0.233	0.018	0.117	332
					12500		10000		8000		5000		2500		
DMB30-25	25	Parallel 1:1	NON	625	7.650	48.707	4.781	30.442	2.391	15.220	0.952	6.088	0.476	3.044	830
			1:3	208	2.684	17.090	1.678	10.681	0.839	5.340	0.334	2.136	0.167	1.068	830
			1:5	125	1.611	10.254	1.006	6.409	0.503	3.204	0.200	1.281	0.100	0.641	830
			1:10	63	0.805	5.127	0.503	3.204	0.252	1.602	0.100	0.641	0.050	0.320	830
			1:20	31	0.403	2.564	0.252	1.602	0.126	0.801	0.050	0.321	0.025	0.160	830
			1:50	13	0.161	1.025	0.100	0.641	0.050	0.320	0.020	0.128	0.010	0.064	830
		Parallel 2:1	NON	313	3.825	24.354	2.391	15.221	1.196	7.610	0.476	3.044	0.238	1.522	830
			NON	625	6.955	44.279	4.346	27.675	2.174	13.836	0.865	5.535	0.433	2.767	830
		Inline shaft coupling 1:1	1:3	208	2.440	15.536	1.525	9.710	0.763	4.855	0.304	1.942	0.152	0.971	830
			1:5	125	1.465	9.322	0.915	5.826	0.457	2.913	0.182	1.165	0.091	0.583	830
			1:10	63	0.732	4.661	0.457	2.913	0.229	1.456	0.091	0.583	0.455	0.291	830
			1:20	31	0.366	2.331	0.229	1.456	0.115	0.728	0.045	0.292	0.023	0.145	830
			1:50	13	0.146	0.932	0.091	0.583	0.045	0.291	0.018	0.116	0.009	0.058	830

DMB35 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 1500rpm mm/s	Actual load N										Max.linear speed mm/s
					15000		12500		8000		5000		2500		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB35-10	10	Parallel 1:1	NON	250	5.862	37.321	4.885	31.101	3.126	19.904	1.954	12.440	0.977	6.220	417
			1:3	83	2.057	13.095	1.714	10.913	1.097	6.984	0.686	4.365	0.343	2.183	417
			1:5	50	1.234	7.857	1.028	6.548	0.658	4.190	0.411	2.619	0.206	1.310	417
			1:10	25	0.617	3.929	0.514	3.274	0.329	2.095	0.206	1.310	0.103	0.655	417
			1:20	13	0.326	2.073	0.271	1.728	0.174	1.106	0.109	0.691	0.054	0.346	417
			1:50	5	0.130	0.829	0.109	0.691	0.069	0.442	0.043	0.276	0.022	0.138	417
		Parallel 2:1	NON	125	2.931	18.660	2.442	15.550	1.563	9.952	0.977	6.220	0.488	3.110	417
			Inline shaft coupling 1:1	NON	250	5.211	33.174	4.342	27.645	2.779	17.693	1.737	11.058	0.868	5.529
		1:3		83	1.828	11.640	1.524	9.700	0.975	6.208	0.609	3.880	0.305	1.940	417
		1:5		50	1.097	6.984	0.914	5.820	0.585	3.725	0.366	2.328	0.183	1.164	417
		1:10		25	0.548	3.492	0.457	2.910	0.293	1.862	0.183	1.164	0.091	0.582	417
		1:20		13	0.289	1.843	0.241	1.536	0.154	0.983	0.096	0.614	0.048	0.307	417
		1:50		5	0.116	0.737	0.096	0.614	0.062	0.393	0.039	0.246	0.019	0.123	417
DMB35-20	20	Parallel 1:1	NON	500	7.816	49.761	6.253	39.809	3.126	19.904	1.563	9.952	0.391	2.488	833
			1:3	167	2.742	17.460	2.194	13.968	1.097	6.984	0.548	3.492	0.137	0.873	833
			1:5	100	1.645	10.476	1.316	8.381	0.658	4.190	0.329	2.095	0.082	0.524	833
			1:10	50	0.823	5.238	0.658	4.190	0.329	2.095	0.165	1.048	0.041	0.262	833
			1:20	25	0.434	2.765	0.347	2.212	0.174	1.106	0.087	0.553	0.022	0.138	833
			1:50	10	0.174	1.106	0.139	0.885	0.069	0.442	0.035	0.221	0.009	0.055	833
		Parallel 2:1	NON	250	3.908	24.881	3.126	19.904	1.563	9.952	0.782	4.976	0.195	1.244	833
			Inline shaft coupling 1:1	NON	500	6.947	44.232	5.558	35.386	2.779	17.693	1.389	8.846	0.347	2.212
		1:3		167	2.438	15.520	1.950	12.416	0.975	6.208	0.488	3.104	0.122	0.776	833
		1:5		100	1.463	9.312	1.170	7.450	0.585	3.725	0.293	1.862	0.073	0.466	833
		1:10		50	0.731	4.656	0.585	3.725	0.293	1.862	0.146	0.931	0.037	0.233	833
		1:20		25	0.386	2.457	0.309	1.966	0.154	0.983	0.077	0.491	0.019	0.123	833
		1:50		10	0.154	0.983	0.124	0.786	0.062	0.393	0.031	0.197	0.008	0.049	833

DMB40 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 1500rpm mm/s	Actual load N										Max.linear speed mm/s
					25000		15000		10000		5000		2500		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB40-10	10	Parallel 1:1	NON	250	9.563	60.884	5.737	36.523	3.825	24.354	1.913	12.177	0.956	6.089	250
			1:3	83	3.355	21.363	2.013	12.815	1.342	8.545	0.671	4.273	0.335	2.136	250
			1:5	50	2.013	12.818	1.208	7.689	0.805	5.127	0.403	2.564	0.201	1.282	250
			1:10	25	1.007	6.409	0.604	3.845	0.403	2.564	0.201	1.282	0.101	0.641	250
			1:20	13	0.504	3.205	0.302	1.923	0.202	1.282	0.101	0.641	0.051	0.321	250
			1:50	5	0.201	1.282	0.121	0.769	0.081	0.513	0.040	0.256	0.020	0.128	250
		Parallel 2:1	NON	125	4.782	30.442	2.869	18.262	1.913	12.177	0.957	6.089	0.478	3.045	250
			Inline shaft coupling 1:1	NON	250	8.694	55.350	5.215	33.203	3.477	22.140	1.739	11.071	0.869	5.535
		1:3		83	3.050	19.421	1.830	11.650	1.220	7.768	0.610	3.885	0.305	1.940	250
		1:5		50	1.830	11.653	1.097	6.984	0.731	4.656	0.366	2.328	0.183	1.164	250
		1:10		25	0.915	5.826	0.549	3.492	0.366	2.328	0.183	1.164	0.091	0.582	250
		1:20		13	0.458	2.914	0.289	1.843	0.193	1.229	0.096	0.641	0.048	0.307	250
		1:50		5	0.183	1.165	0.116	0.737	0.077	0.491	0.039	0.246	0.019	0.123	250
							15000		10000		8000		5000		2500
DMB40-20	20	Parallel 1:1	NON	500	11.476	73.061	7.651	48.707	6.121	38.966	3.823	24.354	1.912	11.677	500
			1:3	167	4.027	25.635	2.685	17.090	2.148	13.672	1.341	8.545	0.671	4.097	500
			1:5	100	2.416	15.381	1.611	10.254	1.289	8.203	0.805	5.127	0.403	2.458	500
			1:10	50	1.208	7.691	0.801	5.127	0.645	4.102	0.403	2.564	0.202	1.229	500
			1:20	25	0.604	3.846	0.401	2.564	0.323	2.051	0.202	1.282	0.101	0.650	500
			1:50	10	0.242	1.538	0.161	1.025	0.129	0.820	0.081	0.513	0.040	0.246	500
		Parallel 2:1	NON	250	5.738	36.531	3.826	24.354	3.061	19.483	1.912	12.177	0.956	5.839	500
			Inline shaft coupling 1:1	NON	500	10.433	66.419	6.955	44.279	5.565	35.424	3.475	22.140	1.738	10.615
		1:3		167	3.661	23.305	2.441	15.536	1.953	12.416	1.219	7.760	0.609	3.880	500
		1:5		100	2.196	13.983	1.465	9.322	1.170	7.450	0.731	4.656	0.366	2.328	500
		1:10		50	1.098	6.992	0.733	4.661	0.585	3.725	0.366	2.328	0.183	1.164	500
		1:20		25	0.549	3.496	0.367	2.331	0.293	1.863	0.183	1.164	0.092	0.582	500
		1:50		10	0.220	1.398	0.147	0.932	0.117	0.745	0.073	0.467	0.037	0.233	500

DMB45 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 1500rpm mm/s	Actual load N										Max.linear speed mm/s
					35000		30000		25000		20000		15000		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB45-10	10	Parallel 1:1	NON	250	13.678	87.082	11.724	74.642	9.770	62.201	7.816	49.761	5.862	37.321	250
			1:3	83	4.799	30.555	4.114	26.190	3.428	21.825	2.742	17.460	2.057	13.095	250
			1:5	50	2.880	18.333	2.468	15.714	2.057	13.095	1.645	10.476	1.234	7.857	250
			1:10	25	1.440	9.167	1.234	7.857	1.028	6.548	0.823	5.238	0.617	3.929	250
			1:20	13	0.760	4.838	0.651	4.147	0.543	3.456	0.434	2.765	0.326	2.073	250
			1:50	5	0.304	1.935	0.261	1.659	0.217	1.382	0.174	1.106	0.130	0.829	250
		Parallel 2:1	NON	125	6.839	43.541	5.862	37.321	4.885	31.101	3.908	24.881	2.931	18.660	250
			Inline shaft coupling 1:1	NON	250	12.158	77.406	10.421	66.348	8.684	55.290	6.947	44.232	5.211	33.174
		1:3		83	4.266	27.160	3.657	23.280	3.047	19.400	2.438	15.520	1.828	11.640	250
		1:5		50	2.560	16.296	2.194	13.968	1.828	11.640	1.463	9.312	1.097	6.984	250
		1:10		25	1.280	8.148	1.097	6.984	0.914	5.820	0.731	4.656	0.548	3.492	250
		1:20		13	0.675	4.300	0.579	3.686	0.482	3.072	0.386	2.457	0.289	1.843	250
		1:50		5	0.270	1.720	0.232	1.474	0.193	1.229	0.154	0.983	0.116	0.737	250
							25000		20000		15000		12000		10000
DMB45-20	20	Parallel 1:1	NON	500	19.540	124.40	15.632	99.522	11.724	74.642	9.379	59.713	7.816	49.761	500
			1:3	167	6.856	43.65	5.485	34.920	4.114	26.190	3.291	20.952	2.742	17.460	500
			1:5	100	4.114	26.19	3.291	20.952	2.468	15.714	1.975	12.571	1.645	10.476	500
			1:10	50	2.057	13.10	1.645	10.476	1.234	7.857	0.987	6.286	0.823	5.238	500
			1:20	25	1.086	6.91	0.868	5.529	0.651	4.147	0.521	3.317	0.434	2.765	500
			1:50	10	0.434	2.76	0.347	2.212	0.261	1.659	0.208	1.327	0.174	1.106	500
		Parallel 2:1	NON	250	9.770	62.20	7.816	49.761	5.862	37.321	4.690	29.857	3.908	24.881	500
			Inline shaft coupling 1:1	NON	500	17.369	110.58	13.895	88.464	10.421	66.348	8.337	53.079	6.947	44.232
		1:3		167	6.094	38.80	4.875	31.040	3.657	23.280	2.925	18.624	2.438	15.520	500
		1:5		100	3.657	23.28	2.925	18.624	2.194	13.968	1.755	11.174	1.463	9.312	500
		1:10		50	1.828	11.64	1.463	9.312	1.097	6.984	0.878	5.587	0.731	4.656	500
		1:20		25	0.965	6.14	0.772	4.915	0.579	3.686	0.463	2.949	0.386	2.457	500
		1:50		10	0.386	2.46	0.309	1.966	0.232	1.474	0.185	1.180	0.154	0.983	500

DMB50 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 1500rpm mm/s	Actual load N										Max.linear speed mm/s	
					50000		30000		20000		10000		5000			
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm		
DMB50-10	10	Parallel 1:1	NON	250	19.540	124.40	11.724	74.642	7.816	49.761	3.908	24.881	1.954	12.440	417	
			1:3	83	6.856	43.650	4.114	26.190	2.742	17.460	1.371	8.730	0.686	4.365	417	
			1:5	50	4.114	26.190	2.468	15.714	1.645	10.476	0.823	5.238	0.411	2.619	417	
			1:10	25	2.057	13.095	1.234	7.857	0.823	5.238	0.411	2.619	0.206	1.310	417	
			1:20	13	1.086	6.911	0.651	4.147	0.434	2.765	0.217	1.382	0.109	0.691	417	
			1:50	5	0.434	2.765	0.261	1.659	0.174	1.106	0.087	0.553	0.043	0.276	417	
		Parallel 2:1	NON	125	9.770	62.201	5.862	37.321	3.908	24.881	1.954	12.440	0.977	6.220	417	
			Inline shaft coupling 1:1	NON	250	17.369	110.580	10.421	66.348	6.947	44.232	3.474	22.116	1.737	11.058	417
		1:3		83	6.094	38.800	3.657	23.280	2.438	15.520	1.219	7.760	0.609	3.880	417	
		1:5		50	3.657	23.280	2.194	13.968	1.463	9.312	0.731	4.656	0.366	2.328	417	
		1:10		25	1.828	11.640	1.097	6.984	0.731	4.656	0.366	2.328	0.183	1.164	417	
		1:20		13	0.965	6.143	0.579	3.686	0.386	2.457	0.193	1.229	0.096	0.614	417	
		1:50		5	0.386	2.457	0.232	1.474	0.154	0.983	0.077	0.491	0.039	0.246	417	
							30000		20000		10000		5000		2500	
		DMB50-20	20	Parallel 1:1	NON	500	23.448	149.28	15.632	99.522	7.816	49.761	3.908	24.881	1.954	12.440
1:3	167				8.227	52.380	5.485	34.920	2.742	17.460	1.371	8.730	0.686	4.365	500	
1:5	100				4.936	31.428	3.291	20.952	1.645	10.476	0.823	5.238	0.411	2.619	500	
1:10	50				2.468	15.714	1.645	10.476	0.823	5.238	0.411	2.619	0.206	1.310	500	
1:20	25				1.303	8.294	0.868	5.529	0.434	2.765	0.217	1.382	0.109	0.691	500	
1:50	10				0.521	3.317	0.347	2.212	0.174	1.106	0.087	0.553	0.043	0.276	500	
Parallel 2:1	NON			250	11.724	74.642	7.816	49.761	3.908	24.881	1.954	12.440	0.977	6.220	500	
	Inline shaft coupling 1:1			NON	500	20.842	132.70	13.895	88.464	6.947	44.232	3.474	22.116	1.737	11.058	500
1:3				167	7.313	46.560	4.875	31.040	2.438	15.520	1.219	7.760	0.609	3.880	500	
1:5				100	4.388	27.936	2.925	18.624	1.463	9.312	0.731	4.656	0.366	2.328	500	
1:10				50	2.194	13.968	1.463	9.312	0.731	4.656	0.366	2.328	0.183	1.164	500	
1:20				25	1.158	7.372	0.772	4.915	0.386	2.457	0.193	1.229	0.096	0.614	500	
1:50				10	0.463	2.949	0.309	1.966	0.154	0.983	0.077	0.491	0.039	0.246	500	

DMB60 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 1000rpm mm/s	Actual load N										Max.linear speed mm/s
					55000		40000		25000		15000		10000		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB60-10	10	Parallel 1:1	NON	167	14.329	136.84	10.421	99.522	6.513	62.201	3.908	37.321	2.605	24.881	167
			1:3	56	5.028	48.02	3.657	34.920	2.285	21.825	1.371	13.095	0.914	8.730	167
			1:5	33	3.017	28.81	2.194	20.952	1.371	13.095	0.823	7.857	0.548	5.238	167
			1:10	17	1.508	14.40	1.097	10.476	0.686	6.548	0.411	3.929	0.274	2.619	167
			1:20	8	0.796	7.60	0.579	5.529	0.362	3.456	0.217	2.073	0.145	1.382	167
			1:50	3	0.318	3.04	0.232	2.212	0.145	1.382	0.087	0.829	0.058	0.553	167
		Parallel 2:1	NON	83	7.165	68.42	5.211	49.761	3.257	31.101	1.954	18.660	1.303	12.440	167
		Inline shaft coupling 1:1	NON	167	12.737	121.64	9.263	88.464	5.790	55.290	3.474	33.174	2.316	22.116	167
			1:3	56	4.469	42.68	3.250	31.040	2.031	19.400	1.219	11.640	0.813	7.760	167
			1:5	33	2.681	25.61	1.950	18.624	1.219	11.640	0.731	6.984	0.488	4.656	167
			1:10	17	1.341	12.80	0.975	9.312	0.609	5.820	0.366	3.492	0.244	2.328	167
			1:20	8	0.708	6.76	0.515	4.915	0.322	3.072	0.193	1.843	0.129	1.229	167
			1:50	3	0.283	2.70	0.206	1.966	0.129	1.229	0.077	0.737	0.051	0.491	167
					60000		40000		20000		10000		5000		
DMB60-20	20	Parallel 1:1	NON	333	31.264	298.57	20.842	199.04	10.421	99.522	5.211	49.761	2.605	24.881	333
			1:3	111	10.970	104.76	7.313	69.840	3.657	34.920	1.828	17.460	0.914	8.730	333
			1:5	67	6.582	62.86	4.388	41.904	2.194	20.952	1.097	10.476	0.548	5.238	333
			1:10	33	3.291	31.43	2.194	20.952	1.097	10.476	0.548	5.238	0.274	2.619	333
			1:20	17	1.737	16.59	1.158	11.058	0.579	5.529	0.289	2.765	0.145	1.382	333
			1:50	7	0.695	6.63	0.463	4.423	0.232	2.212	0.116	1.106	0.058	0.553	333
		Parallel 2:1	NON	167	15.632	149.28	10.421	99.522	5.211	49.761	2.605	24.881	1.303	12.440	333
		Inline shaft coupling 1:1	NON	333	27.790	265.39	18.527	176.93	9.263	88.464	4.632	44.232	2.316	22.116	333
			1:3	111	9.751	93.12	6.501	62.080	3.250	31.040	1.625	15.520	0.813	7.760	333
			1:5	67	5.850	55.87	3.900	37.248	1.950	18.624	0.975	9.312	0.488	4.656	333
			1:10	33	2.925	27.94	1.950	18.624	0.975	9.312	0.488	4.656	0.244	2.328	333
			1:20	17	1.544	14.74	1.029	9.829	0.515	4.915	0.257	2.457	0.129	1.229	333
			1:50	7	0.618	5.90	0.412	3.932	0.206	1.966	0.103	0.983	0.051	0.491	333

DMB70 Performance Specification

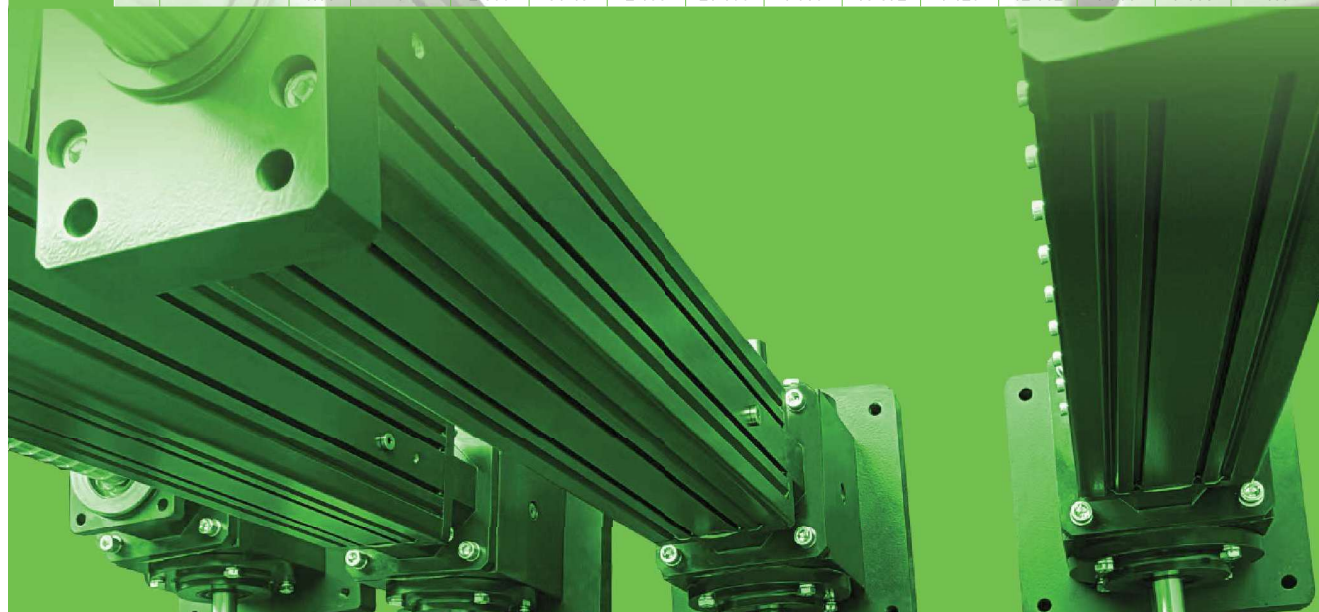
Model	Lead mm	Reducer	Ratio	Speed at 1000rpm mm/s	Actual load N										Max.linear speed mm/s
					80000		60000		40000		20000		10000		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB70-10	10	Parallel 1:1	NON	167	20.842	199.04	15.632	149.283	10.421	99.522	5.211	49.761	2.605	24.881	167
			1:3	56	7.313	69.84	5.485	52.380	3.657	34.920	1.828	17.460	0.914	8.730	167
			1:5	33	4.388	41.90	3.291	31.428	2.194	20.952	1.097	10.476	0.548	5.238	167
			1:10	17	2.194	20.95	1.645	15.714	1.097	10.476	0.548	5.238	0.274	2.619	167
			1:20	8	1.158	11.06	0.868	8.294	0.579	5.529	0.289	2.765	0.145	1.382	167
		Parallel 2:1	NON	83	10.421	99.52	7.816	74.642	5.211	49.761	2.605	24.881	1.303	12.440	167
		Inline shaft coupling 1:1	NON	167	18.527	176.93	13.895	132.696	9.263	88.464	4.632	44.232	2.316	22.116	167
			1:3	56	6.501	62.08	4.875	46.560	3.250	31.040	1.625	15.520	0.813	7.760	167
			1:5	33	3.900	37.25	2.925	27.936	1.950	18.624	0.975	9.312	0.488	4.656	167
			1:10	17	1.950	18.62	1.463	13.968	0.975	9.312	0.488	4.656	0.244	2.328	167
			1:20	8	1.029	9.83	0.772	7.372	0.515	4.915	0.257	2.457	0.129	1.229	167
					100000		80000		60000		50000		40000		
DMB70-20	20	Parallel 1:1	NON	333	52.106	497.61	41.685	398.09	31.264	298.567	26.053	248.806	20.842	199.045	333
			1:3	111	18.283	174.60	14.626	139.680	10.970	104.760	9.141	87.300	7.313	69.840	333
			1:5	67	10.970	104.76	8.776	83.808	6.582	62.856	5.485	52.380	4.388	41.904	333
			1:10	33	5.485	52.38	4.388	41.904	3.291	31.428	2.742	26.190	2.194	20.952	333
			1:20	17	2.895	27.65	2.316	22.116	1.737	16.587	1.447	13.823	1.158	11.058	333
		Parallel 2:1	NON	167	26.053	248.81	20.842	199.045	15.632	149.283	13.026	124.403	10.421	99.522	333
		Inline shaft coupling 1:1	NON	333	46.316	442.32	37.053	353.86	27.790	265.393	23.158	221.161	18.527	176.929	333
			1:3	111	16.251	155.20	13.001	124.160	9.751	93.120	8.126	77.600	6.501	62.080	333
			1:5	67	9.751	93.12	7.801	74.496	5.850	55.872	4.875	46.560	3.900	37.248	333
			1:10	33	4.875	46.56	3.900	37.248	2.925	27.936	2.438	23.280	1.950	18.624	333
			1:20	17	2.573	24.57	2.059	19.659	1.544	14.744	1.287	12.287	1.029	9.829	333

DMB80 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 850rpm mm/s	Actual load N										Max.linear speed mm/s
					100000		80000		60000		40000		30000		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB80-16	16	Parallel 1:1	NON	227	35.432	398.089	28.346	318.471	21.259	238.854	14.173	159.236	10.630	119.427	233
			1:3	76	12.432	139.680	9.946	111.744	7.459	83.808	4.973	55.872	3.730	41.904	233
			1:5	45	7.459	83.808	5.967	67.047	4.476	50.285	2.984	33.523	2.238	25.142	233
			1:10	23	3.730	41.904	2.984	33.523	2.238	25.142	1.492	16.762	1.119	12.571	233
			1:20	11	1.968	22.116	1.575	17.693	1.181	13.270	0.787	8.846	0.591	6.635	233
		Parallel 2:1	NON	113	17.716	199.045	14.173	159.236	10.630	119.427	7.086	79.618	5.315	59.713	233
			NON	227	31.495	353.857	25.196	283.086	18.897	212.314	12.598	141.543	9.449	106.157	233
			1:3	76	11.051	124.160	8.841	99.328	6.631	74.496	4.420	49.664	3.315	37.248	233
			1:5	45	6.631	74.496	5.304	59.597	3.978	44.698	2.652	29.798	1.989	22.349	233
			1:10	23	3.315	37.248	2.652	29.798	1.989	22.349	1.326	14.899	0.995	11.174	233
			1:20	11	1.750	19.659	1.400	15.727	1.050	11.795	0.700	7.863	0.525	5.898	233
			Inline shaft coupling 1:1	NON	227	31.495	353.857	25.196	283.086	18.897	212.314	12.598	141.543	9.449	106.157
1:3	76	11.051		124.160	8.841	99.328	6.631	74.496	4.420	49.664	3.315	37.248	233		
1:5	45	6.631		74.496	5.304	59.597	3.978	44.698	2.652	29.798	1.989	22.349	233		
1:10	23	3.315		37.248	2.652	29.798	1.989	22.349	1.326	14.899	0.995	11.174	233		
1:20	11	1.750		19.659	1.400	15.727	1.050	11.795	0.700	7.863	0.525	5.898	233		
						150000	120000	100000	80000	50000					
DMB80-20	20	Parallel 1:1	NON	283	66.435	746.42	53.148	597.134	44.290	497.611	35.432	398.089	22.145	248.806	292
			1:3	94	23.311	261.90	18.648	209.521	15.540	174.601	12.432	139.680	7.770	87.300	292
			1:5	57	13.986	157.14	11.189	125.712	9.324	104.760	7.459	83.808	4.662	52.380	292
			1:10	28	6.993	78.57	5.595	62.856	4.662	52.380	3.730	41.904	2.331	26.190	292
			1:20	14	3.691	41.47	2.953	33.174	2.461	27.645	1.968	22.116	1.230	13.823	292
		Parallel 2:1	NON	142	33.218	373.21	26.574	298.567	22.145	248.806	17.716	199.045	11.073	124.403	292
			NON	283	59.053	663.48	47.243	530.786	39.369	442.321	31.495	353.857	19.684	221.161	292
			1:3	94	20.720	232.80	16.576	186.241	13.814	155.200	11.051	124.160	6.907	77.600	292
			1:5	57	12.432	139.68	9.946	111.744	8.288	93.120	6.631	74.496	4.144	46.560	292
			1:10	28	6.216	69.84	4.973	55.872	4.144	46.560	3.315	37.248	2.072	23.280	292
			1:20	14	3.281	36.86	2.625	29.488	2.187	24.573	1.750	19.659	1.094	12.287	292
			Inline shaft coupling 1:1	NON	283	59.053	663.48	47.243	530.786	39.369	442.321	31.495	353.857	19.684	221.161
1:3	94	20.720		232.80	16.576	186.241	13.814	155.200	11.051	124.160	6.907	77.600	292		
1:5	57	12.432		139.68	9.946	111.744	8.288	93.120	6.631	74.496	4.144	46.560	292		
1:10	28	6.216		69.84	4.973	55.872	4.144	46.560	3.315	37.248	2.072	23.280	292		
1:20	14	3.281		36.86	2.625	29.488	2.187	24.573	1.750	19.659	1.094	12.287	292		
						150000	120000	100000	80000	50000					
DMB80-32	32	Parallel 1:1	NON	453	106.296	1194.27	85.037	955.41	70.864	796.178	56.691	636.943	35.432	398.089	467
			1:3	151	37.297	419.04	29.837	335.233	24.865	279.361	19.892	223.489	12.432	139.680	467
			1:5	91	22.378	251.42	17.902	201.140	14.919	167.616	11.935	134.093	7.459	83.808	467
			1:10	45	11.189	125.71	8.951	100.570	7.459	83.808	5.967	67.047	3.730	41.904	467
			1:20	23	5.905	66.35	4.724	53.079	3.937	44.232	3.150	35.386	1.968	22.116	467
		Parallel 2:1	NON	227	53.148	597.13	42.518	477.707	35.432	398.089	28.346	318.471	17.716	199.045	467
			NON	453	94.485	1061.57	75.588	849.26	62.990	707.714	50.392	566.171	31.495	353.857	467
			1:3	151	33.153	372.48	26.522	297.985	22.102	248.321	17.681	198.657	11.051	124.160	467
			1:5	91	19.892	223.49	15.913	178.791	13.261	148.992	10.609	119.194	6.631	74.496	467
			1:10	45	9.946	111.74	7.957	89.395	6.631	74.496	5.304	59.597	3.315	37.248	467
			1:20	23	5.249	58.98	4.199	47.181	3.499	39.317	2.800	31.454	1.750	19.659	467
			Inline shaft coupling 1:1	NON	453	106.296	1194.27	85.037	955.41	70.864	796.178	56.691	636.943	35.432	398.089
1:3	151	37.297		419.04	29.837	335.233	24.865	279.361	19.892	223.489	12.432	139.680	467		
1:5	91	22.378		251.42	17.902	201.140	14.919	167.616	11.935	134.093	7.459	83.808	467		
1:10	45	11.189		125.71	8.951	100.570	7.459	83.808	5.967	67.047	3.730	41.904	467		
1:20	23	5.905		66.35	4.724	53.079	3.937	44.232	3.150	35.386	1.968	22.116	467		

DMB100 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 850rpm mm/s	Actual load N										Max.linear speed mm/s
					200000		150000		120000		80000		50000		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB100-20	20	Parallel 1:1	NON	283	88.580	995.223	66.435	746.417	53.148	597.134	35.432	398.089	22.145	248.806	292
			1:3	94	31.081	349.201	23.311	261.901	18.648	209.521	12.432	139.680	7.770	87.300	292
			1:5	57	18.648	209.521	13.986	157.140	11.189	125.712	7.459	83.808	4.662	52.380	292
			1:10	28	9.324	104.760	6.993	78.570	5.595	62.856	3.730	41.904	2.331	26.190	292
			1:20	14	4.921	55.290	3.691	41.468	2.953	33.174	1.968	22.116	1.230	13.823	292
			1:50	6	1.968	22.116	1.476	16.587	1.181	13.270	0.787	8.846	0.492	5.529	292
		Parallel 2:1	NON	142	44.290	497.611	33.218	373.209	26.574	298.567	17.716	199.045	11.073	124.403	292
		Inline shaft coupling 1:1	NON	283	78.738	884.643	59.053	663.482	47.243	530.786	31.495	353.857	19.684	221.161	292
			1:3	94	27.627	310.401	20.720	232.801	16.576	186.241	11.051	124.160	6.907	77.600	292
			1:5	57	16.576	186.241	12.432	139.680	9.946	111.744	6.631	74.496	4.144	46.560	292
			1:10	28	8.288	93.120	6.216	69.840	4.973	55.872	3.315	37.248	2.072	23.280	292
			1:20	14	4.374	49.147	3.281	36.860	2.625	29.488	1.750	19.659	1.094	12.287	292
			1:50	6	1.750	19.659	1.312	14.744	1.050	11.795	0.700	7.863	0.437	4.915	292
				200000		150000		120000		80000		50000			
DMB100-25	25	Parallel 1:1	NON	354	110.725	1244.03	83.044	933.021	66.435	746.417	44.290	497.611	27.681	311.007	365
			1:3	118	38.851	436.50	29.138	327.376	23.311	261.901	15.540	174.601	9.713	109.125	365
			1:5	71	23.311	261.90	17.483	196.426	13.986	157.140	9.324	104.760	5.828	65.475	365
			1:10	35	11.655	130.95	8.741	98.213	6.993	78.570	4.662	52.380	2.914	32.738	365
			1:20	18	6.151	69.11	4.614	51.835	3.691	41.468	2.461	27.645	1.538	17.278	365
			1:50	7	2.461	27.65	1.845	20.734	1.476	16.587	0.984	11.058	0.615	6.911	365
		Parallel 2:1	NON	177	55.363	622.01	41.522	466.511	33.218	373.209	22.145	248.806	13.841	155.504	365
		Inline shaft coupling 1:1	NON	354	98.422	1105.80	73.817	829.352	59.053	663.482	39.369	442.321	24.606	276.451	365
			1:3	118	34.534	388.00	25.901	291.001	20.720	232.801	13.814	155.200	8.634	97.000	365
			1:5	71	20.720	232.80	15.540	174.601	12.432	139.680	8.288	93.120	5.180	58.200	365
			1:10	35	10.360	116.40	7.770	87.300	6.216	69.840	4.144	46.560	2.590	29.100	365
			1:20	18	5.468	61.43	4.101	46.075	3.281	36.860	2.187	24.573	1.367	15.358	365
			1:50	7	2.187	24.57	1.640	18.430	1.312	14.744	0.875	9.829	0.547	6.143	365
				200000		150000		120000		80000		50000			
DMB100-32	32	Parallel 1:1	NON	453	141.728	1592.36	106.296	1194.27	85.037	955.414	56.691	636.943	35.432	398.089	467
			1:3	151	49.729	558.72	37.297	419.041	29.837	335.233	19.892	223.489	12.432	139.680	467
			1:5	91	29.837	335.23	22.378	251.425	17.902	201.140	11.935	134.093	7.459	83.808	467
			1:10	45	14.919	167.62	11.189	125.712	8.951	100.570	5.967	67.047	3.730	41.904	467
			1:20	23	7.874	88.46	5.905	66.348	4.724	53.079	3.150	35.386	1.968	22.116	467
			1:50	9	3.150	35.39	2.362	26.539	1.890	21.231	1.260	14.154	0.787	8.846	467
		Parallel 2:1	NON	227	70.864	796.18	53.148	597.134	42.518	477.707	28.346	318.471	17.716	199.045	467
		Inline shaft coupling 1:1	NON	453	125.981	1415.43	94.485	1061.57	75.588	849.257	50.392	566.171	31.495	353.857	467
			1:3	151	44.204	496.64	33.153	372.481	26.522	297.985	17.681	198.657	11.051	124.160	467
			1:5	91	26.522	297.98	19.892	223.489	15.913	178.791	10.609	119.194	6.631	74.496	467
			1:10	45	13.261	148.99	9.946	111.744	7.957	89.395	5.304	59.597	3.315	37.248	467
			1:20	23	6.999	78.63	5.249	58.976	4.199	47.181	2.800	31.454	1.750	19.659	467
			1:50	9	2.800	31.45	2.100	23.590	1.680	18.872	1.120	12.582	0.700	7.863	467
				200000		150000		120000		80000		50000			



DMB200 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 700rpm mm/s	Actual load N										Max.linear speed mm/s
					250000		220000		200000		180000		150000		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB200-20	20	Parallel 1:1	NON	233	91.185	1244.029	80.243	1094.745	72.948	995.223	65.653	895.701	54.711	746.417	233
			1:3	78	31.995	436.501	28.155	384.121	25.596	349.201	23.036	314.281	19.197	261.901	233
			1:5	47	19.197	261.901	16.893	230.473	15.358	209.521	13.822	188.569	11.518	157.140	233
			1:10	23	9.598	130.950	8.447	115.236	7.679	104.760	6.911	94.284	5.759	78.570	233
			1:20	12	5.066	69.113	4.458	60.819	4.053	55.290	3.647	49.761	3.040	41.468	233
			1:50	5	2.026	27.645	1.783	24.328	1.621	22.116	1.459	19.904	1.216	16.587	233
		Parallel 2:1	NON	117	45.593	622.014	40.122	547.373	36.474	497.611	32.827	447.850	27.356	373.209	233
		Inline shaft coupling 1:1	NON	233	81.054	1105.803	71.327	973.107	64.843	884.643	58.359	796.178	48.632	663.482	233
			1:3	78	28.440	388.001	25.027	341.441	22.752	310.401	20.477	279.361	17.064	232.801	233
			1:5	47	17.064	232.801	15.016	204.865	13.651	186.241	12.286	167.616	10.238	139.680	233
			1:10	23	8.532	116.400	7.508	102.432	6.826	93.120	6.143	83.808	5.119	69.840	233
			1:20	12	4.503	61.434	3.963	54.061	3.602	49.147	3.242	44.232	2.702	36.860	233
			1:50	5	1.801	24.573	1.585	21.625	1.441	19.659	1.297	17.693	1.081	14.744	233
					300000		280000		260000		250000		240000		
DMB200-25	25	Parallel 1:1	NON	292	136.778	1866.04	127.659	1741.640	118.541	1617.237	113.982	1555.036	109.422	1492.834	292
			1:3	97	47.992	654.75	44.793	611.102	41.593	567.452	39.994	545.627	38.394	523.802	292
			1:5	58	28.795	392.85	26.876	366.661	24.956	340.471	23.996	327.376	23.036	314.281	292
			1:10	29	14.398	196.43	13.438	183.331	12.478	170.236	11.998	163.688	11.518	157.140	292
			1:20	15	7.599	103.67	7.092	96.758	6.586	89.847	6.332	86.391	6.079	82.935	292
			1:50	6	3.040	41.47	2.837	38.703	2.634	35.939	2.533	34.556	2.432	33.174	292
		Parallel 2:1	NON	146	68.389	933.02	63.830	870.820	59.270	808.619	56.991	777.518	54.711	746.417	292
		Inline shaft coupling 1:1	NON	292	121.580	1658.70	113.475	1548.125	105.370	1437.544	101.317	1382.254	97.264	1326.964	292
			1:3	97	42.660	582.00	39.816	543.202	36.972	504.401	35.550	485.001	34.128	465.601	292
			1:5	58	25.596	349.20	23.889	325.921	22.183	302.641	21.330	291.001	20.477	279.361	292
			1:10	29	12.798	174.60	11.945	162.960	11.092	151.320	10.665	145.500	10.238	139.680	292
			1:20	15	6.754	92.15	6.304	86.007	5.854	79.864	5.629	76.792	5.404	73.720	292
			1:50	6	2.702	36.86	2.522	34.403	2.342	31.945	2.251	30.717	2.161	29.488	292
					300000		280000		260000		250000		240000		
DMB200-32	32	Parallel 1:1	NON	373	175.076	2388.54	163.404	2229.30	151.732	2070.064	145.897	1990.446	140.061	1910.828	373
			1:3	124	61.430	838.08	57.335	782.210	53.239	726.338	51.192	698.402	49.144	670.466	373
			1:5	75	36.858	502.85	34.401	469.326	31.944	435.803	30.715	419.041	29.486	402.280	373
			1:10	37	18.429	251.42	17.200	234.663	15.972	217.901	15.358	209.521	14.743	201.140	373
			1:20	19	9.726	132.70	9.078	123.850	8.430	115.004	8.105	110.580	7.781	106.157	373
			1:50	7	3.891	53.08	3.631	49.540	3.372	46.001	3.242	44.232	3.112	42.463	373
		Parallel 2:1	NON	187	87.538	1194.27	81.702	1114.650	75.866	1035.032	72.948	995.223	70.030	955.414	373
		Inline shaft coupling 1:1	NON	373	155.623	2123.14	145.248	1981.60	134.873	1840.057	129.686	1769.285	124.498	1698.514	373
			1:3	124	54.605	744.96	50.964	695.298	47.324	645.634	45.504	620.802	43.684	595.970	373
			1:5	75	32.763	446.98	30.579	417.179	28.394	387.380	27.302	372.481	26.210	357.582	373
			1:10	37	16.381	223.49	15.289	208.589	14.197	193.690	13.651	186.241	13.105	178.791	373
			1:20	19	8.646	117.95	8.069	110.089	7.493	102.225	7.205	98.294	6.917	94.362	373
			1:50	7	3.458	47.18	3.228	44.036	2.997	40.890	2.882	39.317	2.767	37.745	373

DMB500 Performance Specification

Model	Lead mm	Reducer	Ratio	Speed at 550rpm mm/s	Actual load N										Max.linear speed mm/s
					500000		450000		400000		350000		300000		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB500-20	20	Parallel 1:1	NON	183	143.291	2488.057	128.962	2239.252	114.633	1990.446	100.304	1741.640	85.975	1492.834	183
			1:3	61	50.278	873.003	45.250	785.702	40.222	698.402	35.194	611.102	30.167	523.802	183
			1:5	37	30.167	523.802	27.150	471.421	24.133	419.041	21.117	366.661	18.100	314.281	183
			1:10	18	15.083	261.901	13.575	235.711	12.067	209.521	10.558	183.331	9.050	157.140	183
			1:20	9	7.961	138.225	7.165	124.403	6.369	110.580	5.572	96.758	4.776	82.935	183
			1:50	4	3.184	55.290	2.866	49.761	2.547	44.232	2.229	38.703	1.911	33.174	183
		Parallel 2:1	NON	92	71.646	1244.029	64.481	1119.626	57.317	995.223	50.152	870.820	42.987	746.417	183
		Inline shaft coupling 1:1	NON	183	127.370	2211.607	114.633	1990.446	101.896	1769.285	89.159	1548.125	76.422	1326.964	183
			1:3	61	44.691	776.002	40.222	698.402	35.753	620.802	31.284	543.202	26.815	465.601	183
			1:5	37	26.815	465.601	24.133	419.041	21.452	372.481	18.770	325.921	16.089	279.361	183
			1:10	18	13.407	232.801	12.067	209.521	10.726	186.241	9.385	162.960	8.044	139.680	183
			1:20	9	7.076	122.867	6.369	110.580	5.661	98.294	4.953	86.007	4.246	73.720	183
			1:50	4	2.830	49.147	2.547	44.232	2.264	39.317	1.981	34.403	1.698	29.488	183

Model	Lead mm	Reducer	Ratio	Speed at 550rpm mm/s	Actual load N										Max.linear speed mm/s
					500000		450000		400000		350000		300000		
					Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	Power KW	Torque Nm	
DMB500-25	25	Parallel 1:1	NON	229	179.114	3110.07	161.203	2799.064	143.291	2488.057	125.380	2177.050	107.468	1866.043	229
			1:3	76	62.847	1091.25	56.562	982.128	50.278	873.003	43.993	763.877	37.708	654.752	229
			1:5	46	37.708	654.75	33.937	589.277	30.167	523.802	26.396	458.326	22.625	392.851	229
			1:10	23	18.854	327.38	16.969	294.638	15.083	261.901	13.198	229.163	11.312	196.426	229
			1:20	11	9.951	172.78	8.956	155.504	7.961	138.225	6.966	120.947	5.970	103.669	229
			1:50	5	3.980	69.11	3.582	62.201	3.184	55.290	2.786	48.379	2.388	41.468	229
		Parallel 2:1	NON	115	89.557	1555.04	80.601	1399.532	71.646	1244.029	62.690	1088.525	53.734	933.021	229
			NON	229	159.213	2764.51	143.291	2488.057	127.370	2211.607	111.449	1935.156	95.528	1658.705	229
		Inline shaft coupling 1:1	1:3	76	55.864	970.00	50.278	873.003	44.691	776.002	39.105	679.002	33.518	582.002	229
			1:5	46	33.518	582.00	30.167	523.802	26.815	465.601	23.463	407.401	20.111	349.201	229
			1:10	23	16.759	291.00	15.083	261.901	13.407	232.801	11.731	203.701	10.056	174.601	229
			1:20	11	8.845	153.58	7.961	138.225	7.076	122.867	6.192	107.509	5.307	92.150	229
			1:50	5	3.538	61.43	3.184	55.290	2.830	49.147	2.477	43.003	2.123	36.860	229
					500000		450000		400000		350000		300000		
DMB500-32	32	Parallel 1:1	NON	293	229.266	3980.89	206.339	3582.80	183.413	3184.713	160.486	2786.624	137.560	2388.535	293
			1:3	98	80.444	1396.80	72.400	1257.124	64.355	1117.443	56.311	977.763	48.267	838.082	293
			1:5	59	48.267	838.08	43.440	754.274	38.613	670.466	33.787	586.658	28.960	502.849	293
			1:10	29	24.133	419.04	21.720	377.137	19.307	335.233	16.893	293.329	14.480	251.425	293
			1:20	15	12.737	221.16	11.463	199.045	10.190	176.929	8.916	154.812	7.642	132.696	293
			1:50	6	5.095	88.46	4.585	79.618	4.076	70.771	3.566	61.925	3.057	53.079	293
		Parallel 2:1	NON	147	114.633	1990.45	103.170	1791.401	91.706	1592.357	80.243	1393.312	68.780	1194.268	293
			NON	293	203.792	3538.57	183.413	3184.71	163.034	2830.856	142.654	2476.999	122.275	2123.142	293
		Inline shaft coupling 1:1	1:3	98	71.506	1241.60	64.355	1117.443	57.205	993.283	50.054	869.123	42.904	744.962	293
			1:5	59	42.904	744.96	38.613	670.466	34.323	595.970	30.033	521.474	25.742	446.977	293
			1:10	29	21.452	372.48	19.307	335.233	17.161	297.985	15.016	260.737	12.871	223.489	293
			1:20	15	11.322	196.59	10.190	176.929	9.057	157.270	7.925	137.611	6.793	117.952	293
			1:50	6	4.529	78.63	4.076	70.771	3.623	62.908	3.170	55.044	2.717	47.181	293

