

TORQUE SYSTEMS

MDM Parts Set Product Guide

There is virtually no limit to our unique motor solutions. For applications with limited space that require maximum torque, we offer Direct Drive Sets (frameless motors). Unlike any other Direct Drive Set out there, ITT's unique design offers a molded stator and polymer shrink wrapped rotor.

ITT Torque Systems engineers design the MDM Parts Set Series to meet the needs of users and customers in need of a compact, reliable high-performance servo motor solution.



ITT

ENGINEERED FOR LIFE

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FEATURES	BENEFITS	APPLICATIONS
MDM 5000 Technology - Cut-core/ Segmented Stator Technology	High Torque Density, High Efficiency, Small Foot Print, Reduced Weight. Stator Molded with Thermally Conductive Epoxy, Fail-Safe Banding over Nickel Plated Rotor Magnets to Withstand Harsh Environment	Military and Commercial ROVs, AUVs, UAVs, Land Vehicles, Antenna Pedestal, Turrets and Others; Deep Sea, Land, Outer Space, High Shock and Vibration, Extreme temperatures
Maximum Rate and Position Accuracy Direct Drive With High Magnetic Pole Count	No Backlash, High Servo Stiffness, Smooth Operation	Medical Imaging, Pick and Place, Remote Equipment, High Precision Robotics, Pumps and Others
Flexible Winding Options, Mechanical Options	Customer Friendly	ALL
ROHS Compliant	Environmentally Friendly	ALL

Performance			Mechanical Dimension			
Platform Number	Cont. Stall Torque Nm	Peak Torque Nm	Max Speed RPM	Cmax	D	Without Hall "E"
P0551	0.55	2.5	8000	16	55	21
P0552	0.89	4.4			40	
P0553	1.25	5.9			60	
P0554	1.5	7			81	
P0631	0.55	2.3	8000	28.95	60.35	15
P0632	1	5			28	
P0633	1.3	6.6			42	
P0634	1.7	8.9			55	
P0635	2	11			69	
P0636	2.2	13			82	
P0651	0.83	4.1	8000	18	65	20.3
P0652	1.2	6			29.5	
P0653	1.9	9.5			49.3	
P0654	2.2	10.5			58.5	
P0761	1.05	6.2	8000	23	75.95	20
P0762	1.8	11			36	
P0763	2.5	14			55	
P0764	3	17.5			71	
P0765	4	22			90	
P0766	4.5	25.3			106	
P0811	1.1	5.1	8000	32	81.28	20
P0812	2.1	10.1			37	
P0813	2.8	16			58	
P0814	3.8	20.1			73	
P1051	5.2	12	6000	30.066	105	32
P1052	9	21.9			63	
P1053	12	29.8			95	
P1054	15	37.6			126	
P1271	2.3	7.9	6000	63.50	127	13
P1272	4.4	16.9			23	
P1273	6	24.9			33	
P1274	8.2	32.8			45	
P1275	9.8	41.8			55	
P1276	11.7	48.6			65	
P1431	7.3	28	6000	38.05	143	26
P1432	14	47.5			51	
P1433	19	71			76	
P1434	24	96			101	
P1435	29	110			126	

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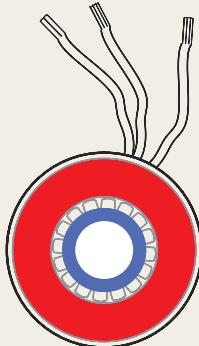
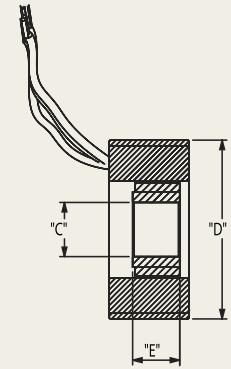
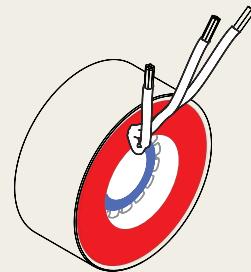
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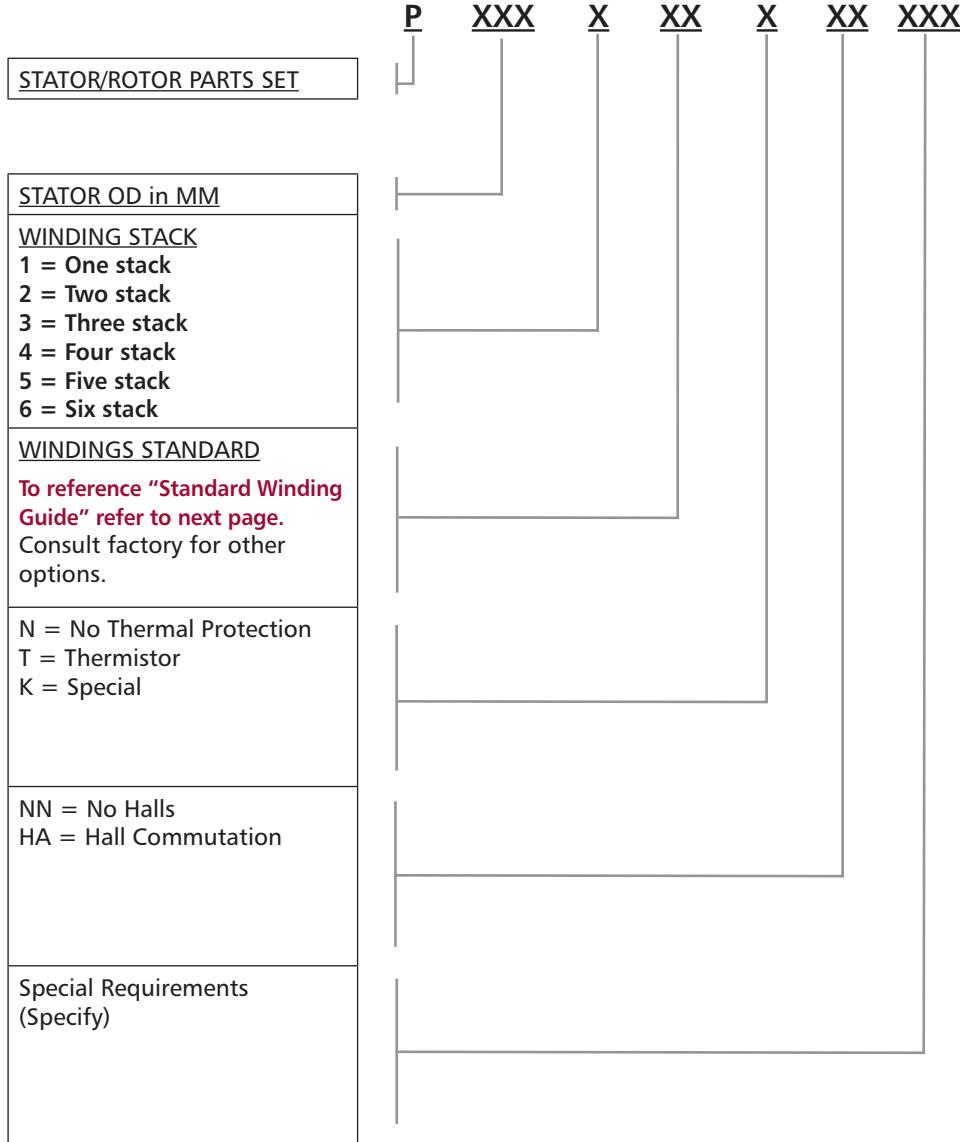
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All dimensions are in MM

Note: All performance ratings are at 25 degrees C Ambient with housed motor mounted to a heat sink and max total winding temperature of 155 degrees C



MDM 5000 DIRECT DRIVE PARTS SET ORDERING GUIDE



Example Part Number Setup: P1053-EO-N-HA-S

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STANDARD WINDING GUIDE

Winding Designators: Back EMF Constant (Vpeak/Krpm)								
N0 = 5	X0 = 7.5	T0 = 10	U0 = 12.5	P0 = 15	A0 = 20	R0 = 25	B0 = 30	C6 = 34
C0 = 40	D0 = 50	E0 = 60	F5 = 65	F0 = 70	G0 = 80	H0 = 90	J0 = 100	K0 = 120
L0 = 140	M0 = 160	V0 = 180	W0 = 200	SA = 240	SB = 280	SC = 320	SD = 360	SE = 400

MDM-S 5000 Direct Drive Parts Set Winding Option	
P0551	NO, X0, T0, P0, U0, A0, R0, B0, C0
P0552	NO, X0, T0, P0, U0, A0, R0, B0, C0
P0553	NO, X0, T0, P0, U0, A0, R0, B0, C0, E0, F0, K0
P0554	A0, B0, C0, D0,
P0631	NO, X0, T0, P0, U0, A0, R0, B0, C0, D0
P0632	NO, X0, T0, P0, U0, A0, R0, B0, C0, D0, F0, K0
P0633	NO, X0, T0, P0, U0, A0, R0, B0, C0, D0, G0, K0, V0
P0634	NO, X0, T0, P0, U0, A0, R0, B0, C0, D0, E0, J0, K0
P0635	X0, T0, P0, U0, A0, R0, B0, C0, D0, E0, K0
P0636	T0, P0, U0, A0, R0, B0, C0, D0, E0, J0
P0811	NO, X0, T0, P0, U0, A0, R0, B0, C0, D0, E0
P0812	T0, P0, U0, A0, R0, B0, C0, D0, E0
P0813	T0, P0, U0, A0, R0, B0, C0, D0, E0, J0, K0
P0814	T0, P0, U0, A0, R0, B0, C0, D0, E0, J0, K0
P1271	T0, P0, U0, A0, R0, B0, C0, D0, E0, F0, G0, J0, K0, L0, M0, V0
P1272	T0, P0, U0, A0, R0, B0, C0, D0, E0, F0, G0, J0, K0, L0, M0, V0, W0, SA
P1273	A0, R0, B0, C0, D0, E0, F0, G0, J0, K0, L0, M0, V0, W0, SA, SB, SC, SD, SE
P1274	B0, C0, D0, E0, F0, G0, J0, K0, L0, M0, V0, W0, SA, SB, SC, SD, SE
P1275	C0, D0, E0, F0, G0, J0, K0, L0, M0, V0, W0, SA, SB, SC, SD, SE
P1276	D0, E0, F0, G0, J0, K0, L0, M0, V0, W0, SA, SB, SC, SD, SE
P0651	NO, X0, T0, P0, U0, A0, R0, B0, C0, D0
P0652	NO, X0, T0, P0, U0, A0, R0, B0, C0, D0
P0653	X0, T0, P0, U0, A0, R0, B0, C0, D0
P0654	T0, P0, U0, A0, R0, B0, C0, D0, E0, G0, J0
P0761	NO, X0, T0, P0, U0, A0, R0, B0, C0, D0, E0, F0, G0
P0762	T0, P0, U0, A0, R0, B0, C0, D0, E0, F0, G0, J0, K0, L0
P0763	T0, P0, U0, A0, R0, B0, C0, D0, E0, F0, G0, J0, K0, L0, M0, V0
P0764	A0, R0, B0, C0, D0, E0, F0, G0, J0, K0, L0, M0, V0, W0
P0765	A0, R0, B0, C0, D0, E0, F0, G0, J0, K0
P0766	A0, R0, B0, C0, D0, E0, F0, G0, J0, K0
P1051	T0, P0, U0, A0, R0, B0, C6, C0, D0, E0, J0, K0, L0
P1052	A0, R0, B0, C0, D0, E0, F5, J0, K0, L0, M0
P1053	B0, C0, D0, E0, J0, K0, L0, M0
P1054	C0, D0, E0, J0, K0, L0, M0
P1431	A0, R0, B0, C0, D0, E0, F0, G0, J0, K0, L0, M0, V0, W0, SA, SB, SC, SD, SE
P1432	B0, C0, D0, E0, F0, G0, J0, K0, L0, M0, V0, W0, SA, SB, SC, SD, SE
P1433	D0, E0, F0, G0, J0, K0, L0, M0, V0, W0, SA, SB, SC, SD, SE
P1434	E0, F0, G0, J0, K0, L0, M0, V0, W0, SA, SB, SC, SD, SE
P1435	F0, G0, J0, K0, L0, M0, V0, W0, SA, SB, SC, SD, SE
CONSULT FACTORY FOR OTHER OPTIONS	

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