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Find the *Cleveland Motion Controls MH2630-136A* at our website: *Click HERE*

TORQUE SYSTEMS

Brush Motor
Product Guide



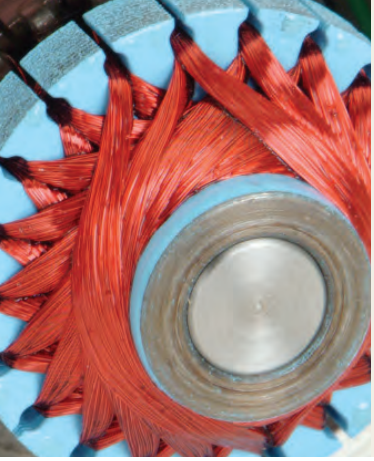
Our typical custom engineered options include:

- Extended Ambient Temperature Ratings
- Custom Winding Configurations
- Special Electromagnetic Design Platforms
- Specialized Military Coatings
- Corrosion Resistant Materials
- Food Grade Materials
- Custom Bearings
- Witness Testing





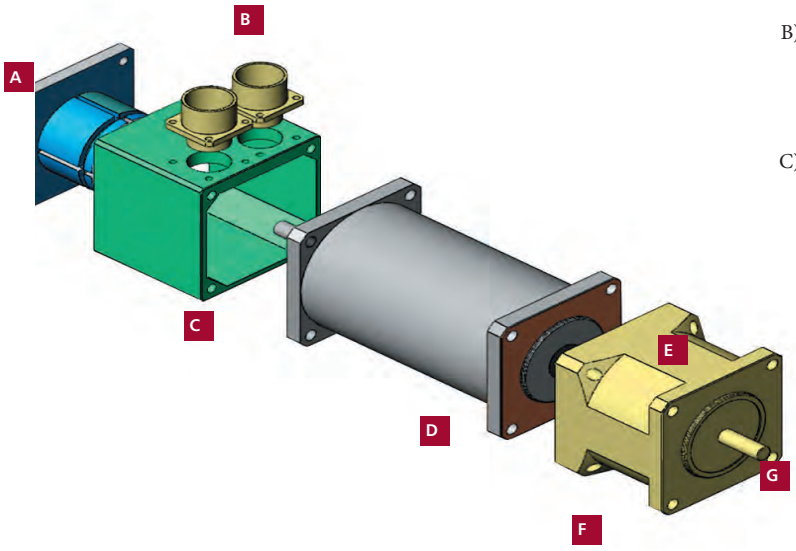
Montevideo Technology, Inc. (MTI)®
A Motor And Control Company
TORQUE SYSTEMS



We can offer you more because we have more behind us.

At MTI Torque Systems, we have always believed in giving you more choices. After all, your application is unique, so the servomotor you choose for it should be unique too. While the competition stacks their shelves with motors and hardware, we pack ours with engineered solutions. The truth is, our shelf contains just about any type of solution you could require, from simple integration components such as brakes, encoders and tachometers, to elaborate breakthrough designs.

Our typical standard integration options include:



A) Brakes

B) Custom Connectors
Connector Locations
Housings
Cabling

C) Standard and Custom
Encoders
Resolvers Tachometers

D) Multiple Standard
Winding Configurations
Matched Windings
Thermostats

E) Standard Flange
Mounting
NEMA Mounting
IEC Mounting
Custom Mechanical
Interfaces

F) Standard & Custom
Shaft Configurations

G) Multiple Gearhead
Options

Features:

- Standard Metric, NEMA and special mounting/ shaft configurations
- Optional encoder line counts up to 5,000 ppr available for all configurations
- Segmented stator lamination technology contained in a high efficiency heat transfer capsule
- Complete conformance to UL/CUL and CE Standards across the entire product line
- External hardware is 300 series Stainless Steel, including casing and spring on shaft seal

Benefits:

- Specialized machinery designs can install or retrofit servomotor with little or no restrictions
- Multiple configurations accommodate flexible design considerations
- Performance enhancement and feature convenience that allows Torque Systems motors to be incorporated into a broader range of applications

Montevideo Technology, Inc. (MTI)®
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Brush Servomotor Platforms

Key: Continuous Duty | Intermittent Duty | Commutation

STANDARD DESIGN FEATURES:

- CE/UL and ROHS Compliant Multiple
- Winding Availability
- Sealed Bearings
- Chip Resistant Painted Steel
- Housings Superior Low Speed Performance

RIGID APPLICATION DEVELOPMENT PROCESS:

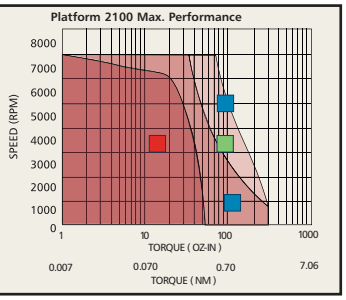
- Application Review
- Motion Profile Analysis
- Magnetic FEA Computer Simulation
- Prototype Design
- Performance Verification

Platform 2100

8 standard available windings



Platform Number	Rated Power W	Cont. Stall Torque oz-in	Cont. Stall Torque NM	Peak Torque oz-in	Peak Torque NM	Rotor Inertia oz-in-sec²	Rotor Inertia Kg(10⁻⁴)-m²
2105	16	11	0.077	50	0.353	0.0018	0.1271
2110	28	18	0.127	100	0.706	0.0031	0.2189
2115	60	30	0.212	150	1.059	0.0044	0.3107
2120	75	38	0.268	200	1.412	0.0057	0.4025
2130	115	53	0.374	300	2.119	0.0083	0.5862

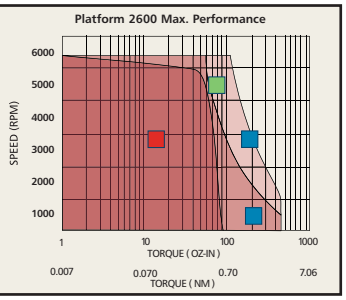


Platform 2600

8 standard available windings



Platform Number	Rated Power W	Cont. Stall Torque oz-in	Cont. Stall Torque NM	Peak Torque oz-in	Peak Torque NM	Rotor Inertia oz-in-sec²	Rotor Inertia Kg(10⁻⁴)-m²
2605	30	17	0.12	75.00	0.53	0.0018	0.1271
2610	45	29	0.20	150.00	1.06	0.0031	0.2189
2615	75	42	0.30	200.00	1.41	0.0044	0.3107
2620	90	52	0.37	300.00	2.12	0.0057	0.4025
2630	135	70	0.49	350.00	2.47	0.0083	0.5862
2640	200	90	0.64	450.00	3.18	0.0115	0.8121

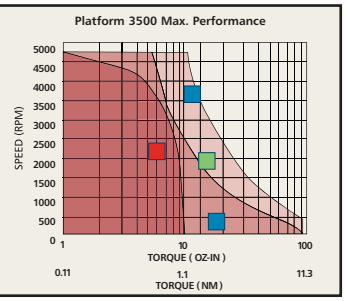


Platform 3500

8 standard available windings



Platform Number	Rated Power W	Cont. Stall Torque lb-in	Cont. Stall Torque NM	Peak Torque lb-in	Peak Torque NM	Rotor Inertia lb-in-sec²	Rotor Inertia Kg(10⁻⁴)-m²
3505	75	2.63	0.30	21.90	2.47	0.0004	0.4519
3509	100	4.25	0.48	37.50	4.24	0.0006	0.6779
3515	135	6.44	0.73	56.30	6.36	0.0008	0.9039
3528	220	10.60	1.20	93.80	10.60	0.0015	1.6948

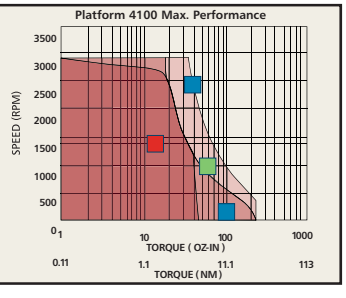


Platform 4100

7 standard available windings

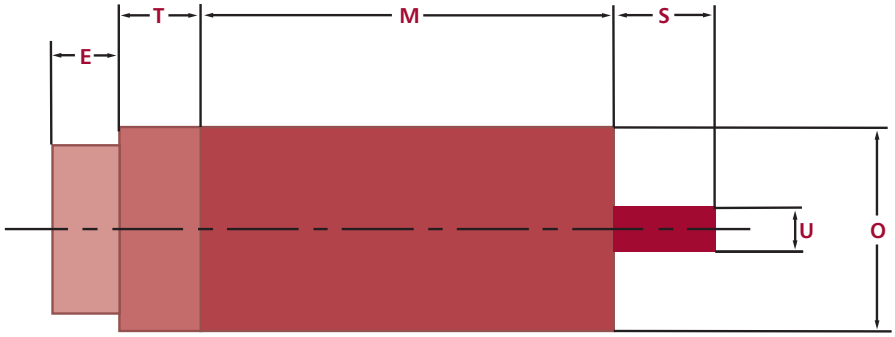


Platform Number	Rated Power W	Cont. Stall Torque lb-in	Cont. Stall Torque NM	Peak Torque lb-in	Peak Torque NM	Rotor Inertia lb-in-sec²	Rotor Inertia Kg(10⁻⁴)-m²
4101	175	12.00	1.36	60.00	6.78	0.0078	8.8128
4102	410	24.00	2.71	120.00	13.56	0.0110	12.428
4104	475	36.00	4.07	180.00	20.34	0.0180	20.337
4106	580	48.00	5.42	240.00	27.12	0.0240	27.116



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Nominal Motor Dimensions



Platform		Frame Length M -in. (mm)		Frame Diameter 0 -in. (mm)		Tach Addition, max T -in. (mm)		Encoder Addition, max E -in. (mm)		Shaft Extension S -in. (mm)		Shaft Diameter U -in. (mm)	
2100	2105	3.13	(79.50)	2.25	(57.2)	1.5	(38.1)	0.85	(21.6)	1	(25.4)	0.375	(9.5)
	2110	3.63	(92.20)	2.25	(57.2)	1.5	(38.1)	0.85	(21.6)	1	(25.4)	0.375	(9.5)
	2115	4.13	(104.9)	2.25	(57.2)	1.5	(38.1)	0.85	(21.6)	1	(25.4)	0.375	(9.5)
	2120	4.63	(117.9)	2.25	(57.2)	1.5	(38.1)	0.85	(21.6)	1	(25.4)	0.375	(9.5)
	2130	5.63	(143.0)	2.25	(57.2)	1.5	(38.1)	0.85	(21.6)	1	(25.4)	0.375	(9.5)
2600	2605	3.13	(79.50)	2.625	(66.7)	1.6	(40.6)	0.85	(21.6)	1	(25.4)	0.375	(9.5)
	2610	3.63	(92.20)	2.625	(66.7)	1.6	(40.6)	0.85	(21.6)	1	(25.4)	0.375	(9.5)
	2615	4.13	(104.9)	2.625	(66.7)	1.6	(40.6)	0.85	(21.6)	1	(25.4)	0.375	(9.5)
	2620	4.63	(117.9)	2.625	(66.7)	1.6	(40.6)	0.85	(21.6)	1	(25.4)	0.375	(9.5)
	2630	5.63	(143.0)	2.625	(66.7)	1.6	(40.6)	0.85	(21.6)	1	(25.4)	0.375	(9.5)
	2640	6.63	(168.4)	2.625	(66.7)	1.6	(40.6)	0.85	(21.6)	1	(25.4)	0.375	(9.5)
3500	3505	2.50	(63.50)	3.38	(85.9)	1.5	(38.1)	0.85	(21.6)	1	(25.4)	0.5	(12.7)
	3509	3.25	(82.55)	3.38	(85.9)	1.5	(38.1)	0.85	(21.6)	1	(25.4)	0.5	(12.7)
	3515	4.00	(101.6)	3.38	(85.9)	1.5	(38.1)	0.85	(21.6)	1	(25.4)	0.5	(12.7)
	3528	5.24	(133.1)	3.38	(85.9)	1.5	(38.1)	0.85	(94.0)	1	(25.4)	0.5	(12.7)
4100	4101	7.19	(182.6)	4.00	(102)	0	0	1	(25.4)	2	(43.2)	0.625	(15.9)
	4102	8.19	(208.0)	4.00	(102)	0	0	1	(25.4)	2	(50.8)	0.625	(15.9)
	4104	10.2	(258.8)	4.00	(102)	0	0	1	(25.4)	2	(50.8)	0.625	(15.9)
	4106	12.2	(309.9)	4.00	(102)	0	0	1	(25.4)	2	(50.8)	0.625	(15.9)

Notes:

Additional including brakes, resolvers, rear shaft extensions, sealed motors will increase overall length

Shaft Extension includes motor face pilot height

Connectors, connector housings, brush housings and mounting flanges may increase overall diameter

Nema and IEC mounting standards available

Motor Dimensions Subject to Change

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