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TECHNOLOGY GROUP

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

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- In stock / Ready-to-ship
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Expert team | Trust guarantee | 100% satisfaction

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Find the *AECOM / EG and G MT2130-012BE* at our website: ***Click HERE***

TORQUE SYSTEMS

Unique Solutions for Unique Customers.

Brush Servomotor Product Guide



Guiding you towards the right solution.



A division of Cleveland Motion Controls
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We can offer you more because we have more behind us.

With Torque Systems, you have many choices. Because instead of stacking our shelf with motors and hardware, we have one packed with engineered solutions. In fact, our shelf contains virtually any type of solution you could need, from the simplest integration components like brakes, encoders and tachometers, to the most complex white paper designs.

To complement our array of Brush Servomotors, we offer you an array of standard integration and custom engineered options to complete your solution.

Our typical standard integration options include:

A) Brakes

B) Custom Connectors
Connector Locations
Housings
Cabling

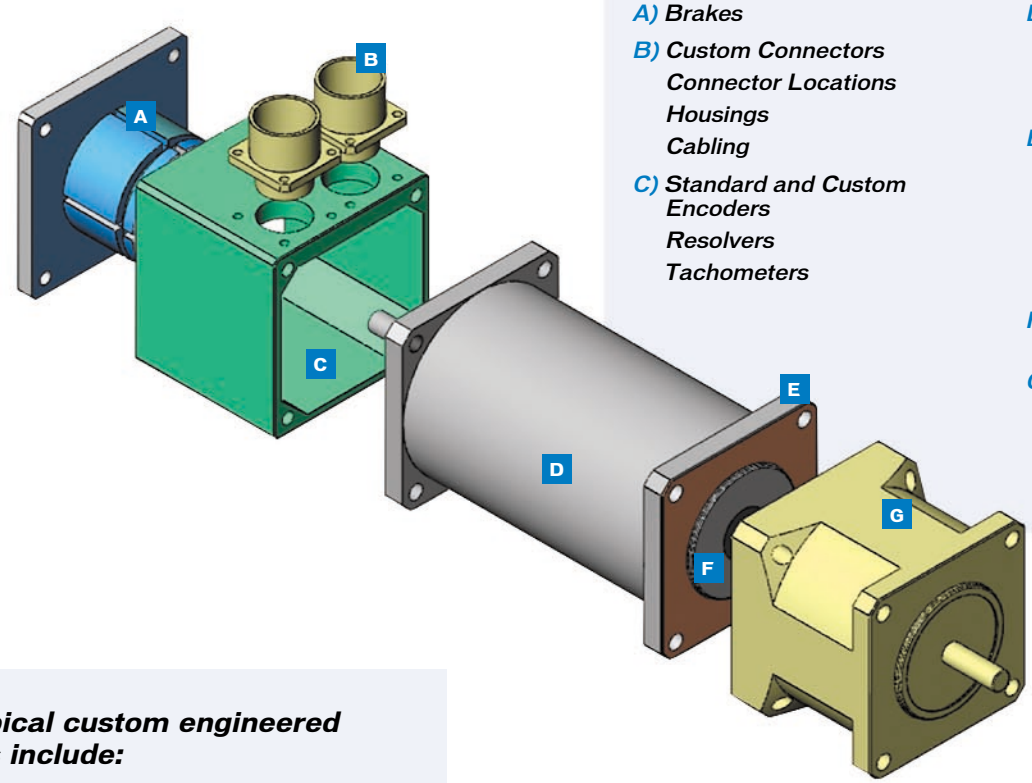
C) Standard and Custom Encoders
Resolvers
Tachometers

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



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
IP65 and IP67 Sealing

When you come to us for your Brush DC Servomotor solutions you also get the experience and knowledge of our highly trained sales force to guide you through the selection process. They will work side-by-side with you to fully understand your application, so they can give you an accurate appraisal of how the best solution can be created. Next, our application development engineers will step in and work directly with you to ensure you receive a reliable, high-quality working solution.

Plus, with Torque Systems, as a design engineer, you even have the opportunity to size motors and select many standard integration options using our convenient web site servomotor platform configuration feature. **Just visit www.torquesystems.com to begin the process.**









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Brush Servomotor Platforms

Key: Continuous Duty | Intermittent Duty | Commutation

Standard Design Features:

CE/UL Compliant
Multiple Winding Availability
Sealed Bearings
Chip Resistant Painted Aluminum Housings
Superior Low Speed Performance

Rigid Application Development Process:

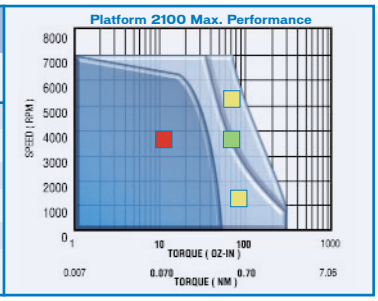
Application Review
Motion Profile Analysis
Magnetic FEA 3D Modeling & Computer Simulation
Prototype Design
Performance Verification

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	15	12	0.085	50	0.353	0.0018	0.1271
2110	30	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

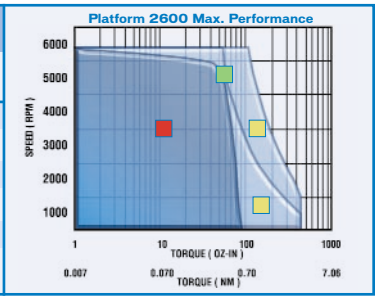


Platform 2600



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

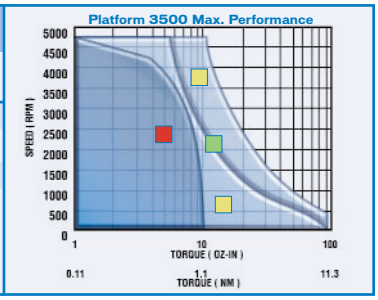


Platform 3500



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

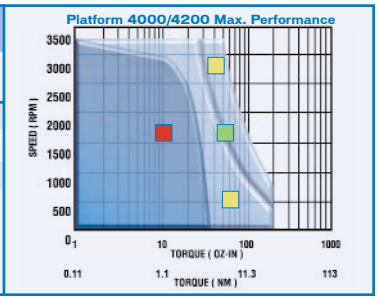


Platform 4000/4200



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
4025/4225	275	18.75	2.12	93.75	10.59	0.0062	7.0051
4037/4237	425	26.13	2.95	137.50	15.54	0.0085	9.6037
4057/4257	620	36.00	4.07	200.00	22.60	0.0120	13.558

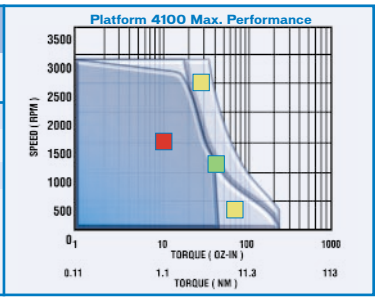


Platform 4100



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



Custom design motors up to 7.25 in. (185 mm) diameter and 300 lb.-in. (34 NM) continuous torque also available.

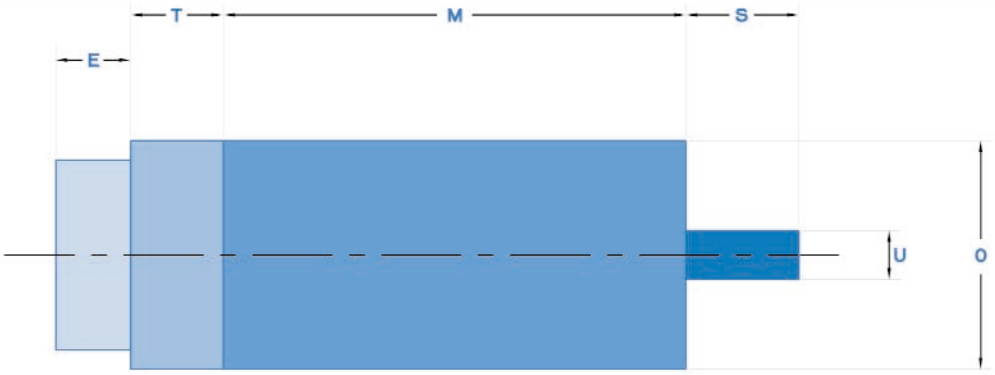
Simply put: *Torque Systems will design a product to fit your application – rather than altering your application to fit our product.*






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Nominal Motor Dimensions



Platform		Frame Length M -in. (mm)		Frame Diameter O -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	(21.6)	1	(25.4)	0.5	(12.7)
4000	4025	8.00	(203.2)	4.00	(102)	0.45	(11.4)	3.7	(94.0)	1.7	(43.2)	0.625	(15.9)
	4037	9.55	(242.6)	4.00	(102)	0.45	(11.4)	3.7	(94.0)	1.7	(43.2)	0.625	(15.9)
	4057	11.3	(287.3)	4.00	(102)	0.45	(11.4)	3.7	(94.0)	1.7	(43.2)	0.625	(15.9)
4100	4101	7.19	(182.6)	4.00	(102)	0	0	1	(25.4)	2	(50.8)	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)
4200	4225	8.00	(203.2)	4.00	(102)	3.7	(94.0)	0	0	1.5	(38.1)	0.625	(15.9)
	4237	9.55	(242.6)	4.00	(102)	3.7	(94.0)	0	0	1.5	(38.1)	0.625	(15.9)
	4257	11.3	(287.3)	4.00	(102)	3.7	(94.0)	0	0	1.5	(38.1)	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 Suject to Change

Ask about our other motion controls solutions & capabilities:

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Brushless Parts Sets

Linear Actuators

Shaft Mounted DataTorque™ Encoders

Expert application development engineering

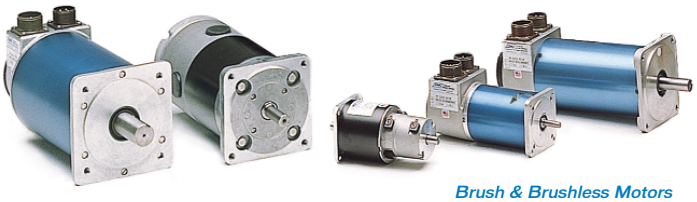
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Torque Systems
6 Enterprise Road
Billerica, MA 01821-3954
U.S.A.
Ph: 800.669.5112
978.667.5100
Fx: 978.667.4989
Sales: sales@torquesystems.com
General information:
info@torquesystems.com
www.torquesystems.com

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