

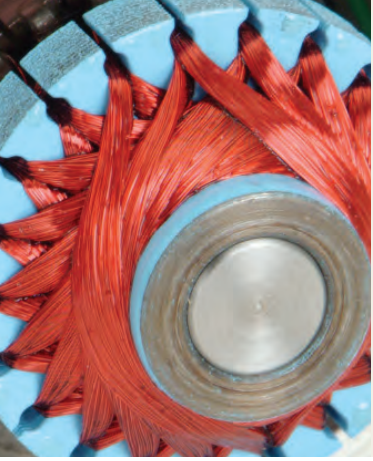
TORQUE SYSTEMS

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

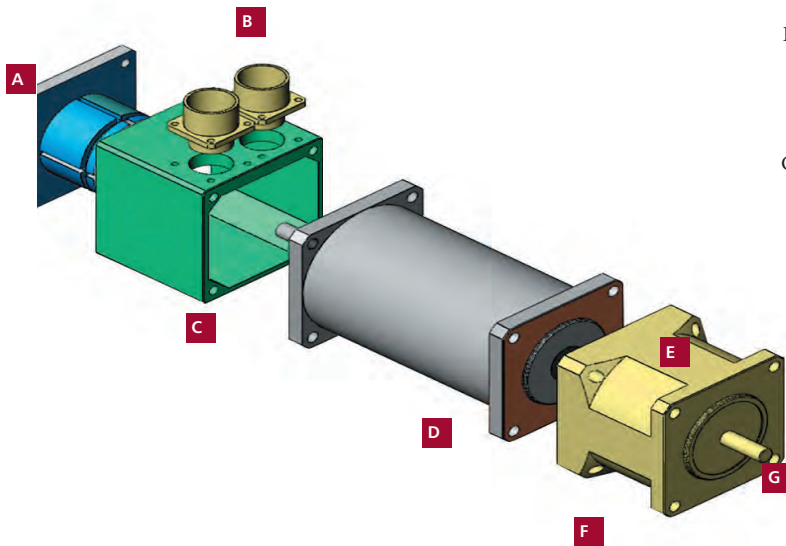




We can offer you more because we have more behind us.

At SLMTI 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

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

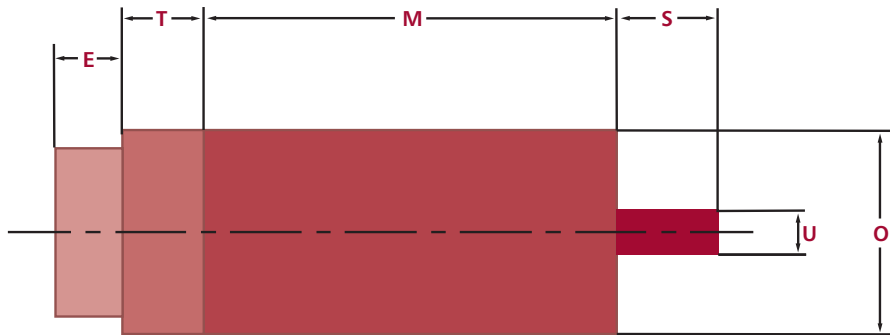
Platform 2100		8 standard available windings						
Platform Number	Rated Power W	Cont. Stall Torque oz-in	Torque NM	Peak Torque oz-in	Torque NM	Rotor Inertia		
						oz-in-sec ²	Kg(10 ⁻⁴)-m ²	
2105	16	11	0.077	50	0.353	0.0018	0.1271	
2110	28	18	0.127	100	0.706	0.0031	0.2189	
2115	60	30	0.212	150	1.059	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	Torque NM	Peak Torque oz-in	Torque NM	Rotor Inertia		
						oz-in-sec ²	Kg(10 ⁻⁴)-m ²	
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	Torque NM	Peak Torque lb-in	Torque NM	Rotor Inertia		
						lb-in-sec ²	Kg(10 ⁻⁴)-m ²	
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	Torque NM	Peak Torque lb-in	Torque NM	Rotor Inertia		
						lb-in-sec ²	Kg(10 ⁻⁴)-m ²	
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	

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)
2600	2130	5.63 (143.0)	2.25 (57.2)	1.5 (38.1)	0.85 (21.6)	1 (25.4)	0.375 (9.5)
	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

Ask about our other motion controls solutions & capabilities:

- Brushless Servo Motors
- Brushless Parts Sets
- Expert application development engineering
- Complete repair and refurbishing services



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