



ENDOSYS
Automation
End to End, Synergized

Stepper Motor & Driver Catalog

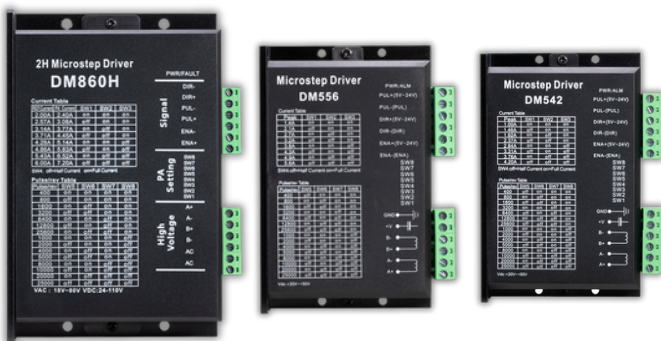


OPEN LOOP STEPPER MOTORS



- Available in NEMA 17, 23, 34, and 42 frame sizes.
- Standard 1.8° step angle for precise and repeatable positioning.
- Hybrid motor design with high torque and smooth motion.
- Low vibration and stable torque at different speeds.
- Built on global NEMA standards for mechanical and electrical compatibility.
- Directly compatible with major Indian market brands: Leadshine, Rtelligent, Moons', Wantai, Sanyo Denki, Mimy, etc.
- Drop-in replacement for most existing open-loop stepper motors.
- Suitable for CNC, textile, packaging, printing, and general automation.

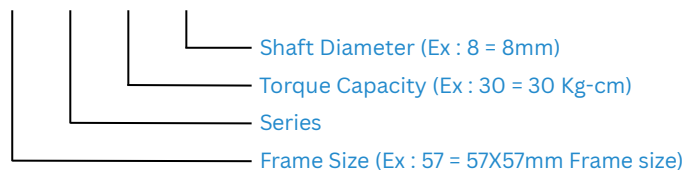
OPEN LOOP STEPPER DRIVERS



- Supports standard pulse/direction (PUL/DIR/ENA) signals.
- Digital microstepping for smooth and accurate control.
- Adjustable output current and wide input voltage capability.
- Auto idle current reduction to minimize heating.
- Built-in protections: over-voltage, under-voltage, over-current, short-circuit.
- Interface-compatible with leading driver brands: Leadshine, Rtelligent, Autonics, Delta, etc.
- Can be used as a direct replacement for most open-loop drivers in Indian machines.
- Suitable for all NEMA 17/23/34/42 open-loop stepper motors.

OPEN LOOP STEPPER MOTOR MODEL SELECTION

XX-EX-XX-XX



Example : **57EX30-8** indicates that the model has 57X57mm of Frame size, 30 Kg-cm (3 N.m.) of Torque capacity and Shaft Diameter is 8mm.

NEMA 17 (42X42mm) - Compatible with DM542 Driver

Model	Step Angle	Length (mm)	Voltage (V)	Current (A)	Holding Torque N.m.	Leads
42EX02-5	1.8°	34	2.76	1.2	0.21	4
42EX03-5		40	2	1.2	0.3	
42EX04-5		47	2.02	1.2	0.4	
42EX06-5		60	3.3	1.2	0.6	

NEMA 23 (57X57mm) - Compatible with DM556 Driver

Model	Step Angle	Length (mm)	Voltage (V)	Current (A)	Holding Torque N.m.	Leads
57EX06-6.35	1.8°	41	1.8	2	0.6	4
57EX10-6.35		56	1.2	3	1	
57EX15-6.35		65	1.3	3	1.5	
57EX18-6.35		76	1.7	3	1.8	
57EX21-8		84	1.9	3	2.1	
57EX24-8		102	2.3	3	2.4	
57EX30-8		112	3.04	4	3.0	

NEMA 34 (86X86mm) - Compatible with DM860H/DMA860E Driver

Model	Step Angle	Length (mm)	Voltage (V)	Current (A)	Holding Torque N.m.	Leads
86EX33-9.5	1.8°	65	4	3	3.3	4
86EX45-12.7		80	4	4.4	4.5	
86EX75-14		98	4.4	4.4	7.5	
86EX85-12.7		118	6	6	8.5	
86EX85-14		118	6.5	6	8.5	
86EX120-14		150	7.5	6	12.0	
86EX125-15.8		156	6.5	6	12.5	

NEMA 42 (110X110mm) - Compatible with DL2822H Driver						
Model	Step Angle	Length (mm)	Voltage (V)	Current (A)	Holding Torque N.m.	Leads
110EX90-16	1.8°	99	2	5.5	9	4
110EX120-16		115	2.2	6	12	
110EX180-16		150	3.5	6.5	18	
110EX220-16		165	3.3	6.5	22	
110EX300-16		201	4.4	8	30	

Open Loop Stepper Driver					
Model	Peak Current (A)	RMS Current (A)	Min/Max PPR	Power Supply	Compatibility
DM542	4.2	3.0	400/25600	24-50VDC	Nema 17, 23
DM556	5.6	4.0	400/25600	24-50VDC	Nema 23, 34
DM860H	7.6	6.0	400/25600	24-110VDC or 18-80VAC	Nema 34
DMA860E	7.6	6.0	400/51200	24-110VDC or 18-80VAC	Nema 34
DL2822H	8.0	7.5	400/51200	110-240VAC	Nema 42

Typical Applications
CNC Machinery (routers, mills, lathes)
Robotics (arms, manipulators, pick-and-place systems)
Packaging and Printing Equipment
Textile Machinery
Conveyor Automation
3D Printing and Light Automation

CLOSE LOOP STEPPER MOTORS



- Available in NEMA 23 and 34 frame sizes.
- Integrated high-resolution encoder for real-time feedback.
- Ensures zero step loss and accurate position correction.
- Higher torque at speed compared to open-loop systems.
- Reduced motor heating and improved efficiency.
- Ideal for applications needing high accuracy and stability.
- Suitable for CNC, robotics, packaging, and advanced automation.

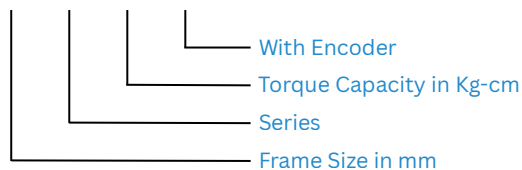
CLOSE LOOP STEPPER DRIVERS



- Encoder feedback-based control for precise motion.
- Continuous position monitoring with instant error correction.
- Provides servo-like performance with stable high-speed operation.
- Auto-tuning and digital microstepping functions.
- Enhanced protections for safe and reliable operation.
- Delivers smooth acceleration and optimized torque output.
- Ideal for demanding systems requiring precision and efficiency.
- Interface-compatible with leading driver brands: Leadshine, Rtelligent, Autonics, Delta, etc.

CLOSE LOOP STEPPER MOTOR MODEL SELECTION

XX-XX-XX-XX



Example : **57EX10-ED** indicates that the model has 57X57mm of Frame size, 1 N.m. of Torque capacity and motor is close loop.

NEMA 23 (57X57mm)

Model	Step Angle	Length (mm)	Voltage (V)	Current (A)	Holding Torque N.m.	Leads	Encoder Resolution
57EX10-ED	1.8°	77	1.2	4	1	6	1000 PPR
57EX20-ED		97	1.68	4	2		
57EX22-ED		105	1.52	4	2.2		

NEMA 34 (86X86mm)

Model	Step Angle	Length (mm)	Voltage (V)	Current (A)	Holding Torque N.m.	Leads	Encoder Resolution
86EX50-ED	1.8°	106	2.5	6	5	6	1000 PPR
86EX85-ED		144	3.1	6	8.5		
86EX100-ED		154	4.2	6	10		
86EX125-ED		176	4.1	6	12.5		

Close Loop Stepper Driver

Model	Peak Current (A)	RMS Current (A)	Power Supply	Compatibility
SL57D	6.0	4.6	24-80VDC	Nema 23 - ED
DL86H	8.0	6.0	24-80VDC	Nema 34 - ED
DL2822H	8.0	7.5	110-240VAC	Nema 34 - ED

Typical Applications

CNC Machinery (routers, mills, lathes)
Robotics (arms, manipulators, pick-and-place systems)
Packaging and Printing Equipment
Textile Machinery
Conveyor Automation
3D Printing and Light Automation