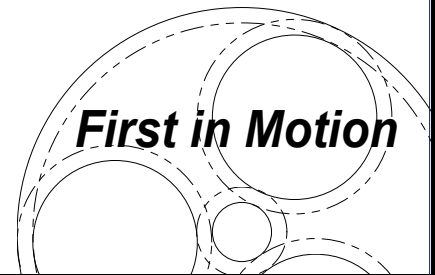


**premier
motion
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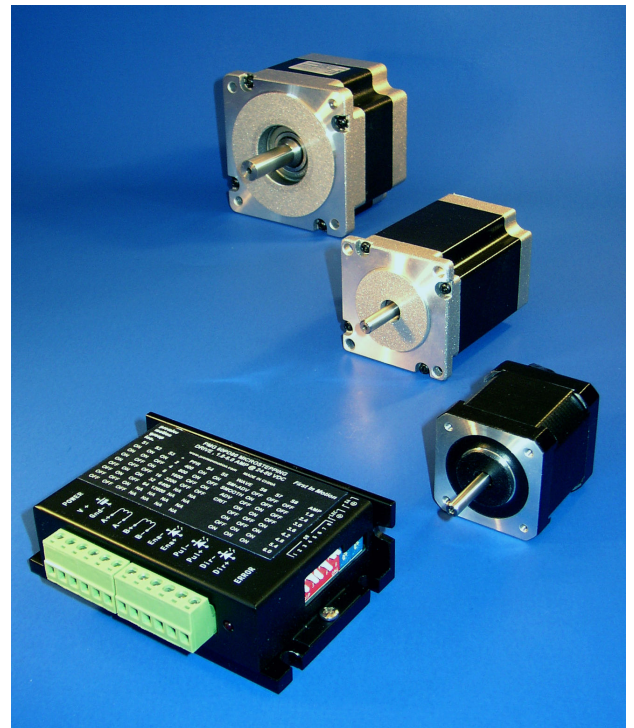
TRUESTEP™
**STEPPING MOTOR
SYSTEMS**



Premier Motion's TrueStep™ series consists of a high performance bipolar microstepping drive and three different frame size high torque stepping motors.

The open-loop microstepping **pmg60PD80** drive accepts optically-isolated "step" pulse and "direction" level commands from most PLC's and motion controls. It can be user set for resolutions from 400 to 12,800 steps per revolution. The drive incorporates proprietary pure sine current control technology to improve torque output and reduce motor heating, vibration and noise. With user selectable motor currents up to 6 amps per phase and an input voltage rating of 20 – 80 VDC, the **pmg60PD80** offers significantly better high speed torque output than other drives.

The Nema 17, 23, and 34 frame 1.8° hybrid stepping motors offer holding torques from 83 to 595 oz-in (0.59 to 4.2 Nm) and are suitable for a wide range of automation tasks including feed-to-length, metered dispensing, and XY positioning.



TRUESTEP™ FEATURES

- Output current switch selectable from 1.8 to 6.0 Amp/phase
- Input Power 20 – 80 VDC. Higher voltage provides better high speed torque.
- Optically isolated step, direction and enable inputs
- Easy connection via two removable screw terminal strips
- DIP switch selectable resolutions from 400 to 12,800 steps per revolution
- 4 user selectable waveforms for smooth motion
- Green Power On and Red Fault LED indicators
- Metal enclosure with built-in heat sink may be end or side mounted
- Nema 17, 23, and 34 high torque stepping motors rated up to 595 oz-in (4.2 Nm)
- 10' Motor Cables

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TRUESTEP™ MICROSTEPPING DRIVE

SPECIFICATION	pmg60PD80
DRIVE TYPE	Microstepping Bipolar Chopper
MOTOR CURRENT	1.8 – 6.0 A/Ø (1.8, 2.4, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0 amp)
BUS VOLTAGE	20 – 80 VDC
RESOLUTION	Microstepping x 2, 4, 8, 16, 32, 64 (400/800/1600/3200/6400/12800 step/rev with 1.8° motor)
MOTOR SIZES	NEMA 17, 23, 34
MAXIMUM POWER	480 W
INPUTS	Optically-Isolated: ± Pulse, ± Direction, ± Enable
MOTOR OUTPUTS	A+/A-, B+/B-
INDICATOR LEDS	GREEN Power, RED Error
OTHER	4 waveform smoothness adjustment settings
CONNECTIONS	2 removable 6-pin terminal strips: Power/Motor and Input
SETTINGS	8-position DIP switch for resolution, waveform, current
ENCLOSURE	Enclosed black painted metal with built-in heat sink
DIMENSIONS	66 mm x 106 mm x 31 mm (2.60" x 4.17" x 1.22") Mounting holes for side or end mount

TRUESTEP™ STEPPING MOTORS

SPECIFICATION	pmg17HT3.1	pmg23HT3.1	pmg34HT2.1
FRAME SIZE	17	23	34
HOLDING TORQUE	83 oz-in	283 oz-in	595 oz-in
	0.59 Nm	2.0 Nm	4.2 Nm
RATED CURRENT	1.8 A/Ø	4.2 A/Ø	6.0 A/Ø
ROTOR INERTIA	0.41 oz-in ²	2.62 oz-in ²	8.7 oz-in ²
	7.4 x 10 ⁻⁶ kg-m ²	4.85 x 10 ⁻⁵ kg-m ²	1.6 x 10 ⁻⁴ kg-m ²
WEIGHT	0.8 lbs	2.4 lbs	4.9 lbs
	0.38 kg	1.08 kg	2.22 kg
FLANGE (SQUARE)	1.67"	2.25"	3.38"
	42.3 mm	57.15 mm	85.85 mm
LENGTH	2.01"	3.15"	3.07"
	51 mm	80 mm	78 mm
SHAFT DIAMETER	0.1968"	0.250"	0.500"
	5.00 mm	6.35 mm	12.70 mm

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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