

Hybrid Stepper Motors Provide Maximum Acceleration



AMETEK Technical & Industrial Products announced the MAE brand “HY Series” hybrid stepper motors which exhibit low rotor inertia to promote maximum possible acceleration. These motors can provide accurate open-loop control and high-speed operation suitable for a wide range of positioning applications. The hybrid stepper motors are offered in four standard NEMA frame sizes (16, 17, 23, and 42) with step resolutions of 1.8° (200 steps per rev) in full-step mode. Motor lengths range from 0.81” to 8.89” and holding torques (bipolar) from 12 oz-in to 2018 oz-in can be achieved, depending on model. Size 17 motors additionally are available in enhanced high-performance versions optimized for microstep operation. These are designed in three lengths (1.37”, 1.61”, or 2.01”) and can achieve holding torques (bipolar) from 37 oz-in to 71 oz-in, depending on model. All MAE “HY Series” hybrid steppers incorporate precision-honed stators and ground rotors for tight air gap and improved performance; 4, 6, or 8 leads upon request; single- or double-ended shaft extensions; and simple, rugged construction promoting high reliability and long service life. Motor rotation can run clockwise or counterclockwise. Value-added customization options include gearboxes (planetary, spur, worm, or right angle) with standard or low backlash, encoders, brakes, and special shaft, endbelt, and cabling. The motors are CE approved.

AMETEK Technical & Industrial Products
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