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Nanopositioning Technology

Nanopositioning Stages

Mechanical Accessories

Piezoelectric and Stepper-Motor Controllers

Autoalignment

Modular System Controllers



Available in:
 ✓ Production Quantities

Stepper-Motor Control Module

The 17 MST 001 single-axis stepper-motor control module has been designed as a universal unit to drive all of the stepper-motor stages in the Melles Griot nanopositioning range.

The unit provides full microstep control of all stepper-motor drive and park parameters. The default parameters supplied are suitable for most applications. If required, the user has control of fundamental low-level parameters such as initial and final velocities, acceleration, deceleration, backlash correction, park position drive current, and so on.

When used with stage-specific calibration data (supplied with all stepper-motor-driven stages), the controller performs lead screw error compensation.

SPECIFICATIONS: STEPPER-MOTOR CONTROL MODULE

Output Current: 1 A

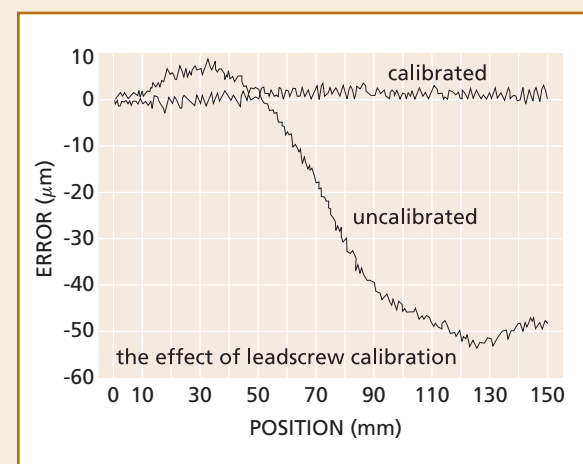
Dimensions (W × H × D):

12 HP (61 mm) × 3 U (134 mm) × 220 mm

Stepper-Motor Control Module

	PRODUCT NUMBER
Stepper-Motor Control Module	17 MST 001

AUTOMATIC LEADSCREW ERROR COMPENSATION



Melles Griot NanoStep™ stages are activated by a stepper-motor-driven leadscrew. As with many machining processes, there is a limit to the accuracy to which the leadscrew can be manufactured. Fortunately, the errors that do occur are usually repeatable and may be compensated for.

Software provides automatic compensation for leadscrew errors. These errors, measured during the manufacturing process, are obtained using a 1-nm-resolution laser interferometer and are stored in memory as multipoint calibration tables. These data are used to compensate for positioning errors in subsequent position commands. These provisions result in the attainment of absolute accuracies that would otherwise be achieved only by using expensive linear encoders.



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