

Translation Stages

Linear Manual

Crossed Roller Stages

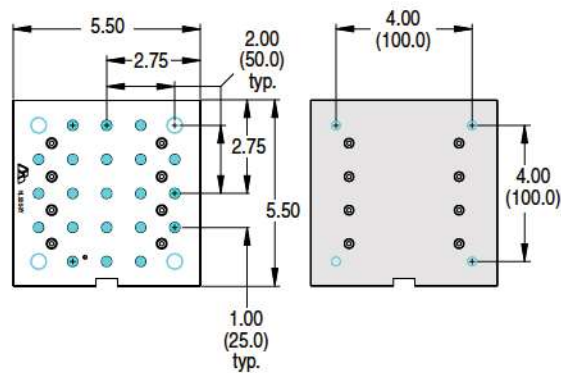
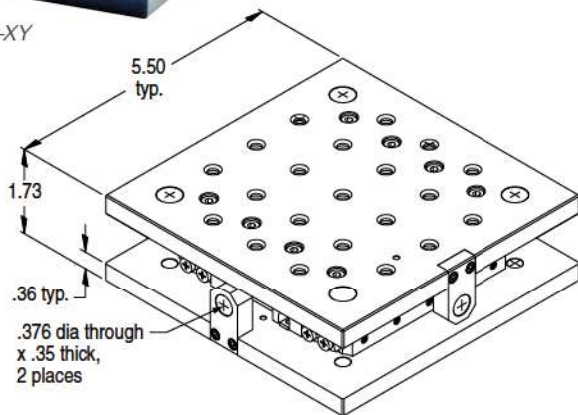


1/2 inch Travel / HL.500-XY

□ Top Plate ■ Bottom Plate Mounting Holes: 1/4-20 (M6), 0.29 Clearance
 Note that dimensions in parentheses (mm) reflect metric assembly features.

New

HL.500-XY



Manual XY Linear Stage

The HL.500-XY stage has crossed roller bearings for the ultimate in stability, linearity and reduced stiction under heavy loads. We use 20% more bearings for improved bidirectional linearity over the entire travel range, with notable performance improvement at the end of travel. A variety of manual and motorized actuators are available: manual actuators in 20TPI / 40TPI / 80TPI / 100TPI / 127TPI / 170TPI, differential micrometers, as well as open-loop and closed loop drives. The HL.500-XY has individual non-influencing locks on each axis that will hold the stage in place even under a 3g jolt. The HL.500-XY is compatible with our MX-AB and MX-AB2 vertical mounting blocks; when combined with our 100cr or 200cr stages a high load XYZ stage system can be assembled.

Product Features

- Low profile design
- Integrated XY axes
- Non-influencing lock
- High load crossed roller bearings
- Vacuum compatible versions available

Performance Specifications

Travel range	0.5 inch (12.5mm)
Maximum horizontal axis load	150 lbs, centered
Maximum vertical axis load	20 lbs, centered
Minimum controllable motion	
20TPI	20 μm
40TPI	10 μm
80TPI	submicron
100TPI	submicron
127TPI	submicron

Related Products

FAM-0.5 micrometers	84
420.5 actuator	90
841 actuator	93
EAS & TPI adjustment screws	86

Order Information

0.5 inch travel XY stage / 5.5" □ HL.500-XY

Metric Option — for metric assembly features on this product, add '-M' after model number.

Micrometers / Adjustment Screws / Motorized Actuators

See pages 82-93 for detailed information on these actuator options.

Differential Micrometers	Micrometers	Knob Drives	Hex Drives	Motorized Drives
1" Travel FDM-1	1/2" Travel FAM-0.5	1/2" Travel 20, 40, 80, 100, 127 and 170 TPI	1/2" Travel 20, 40, 80, 100, 127 and 170 TPI + 100 TPI Differential	1/2" Travel, 420.5 1" Travel, 841
				Controllers 4 Axis, MC500 MC1000e Series 1 Axis, MC501 MC1000e-1