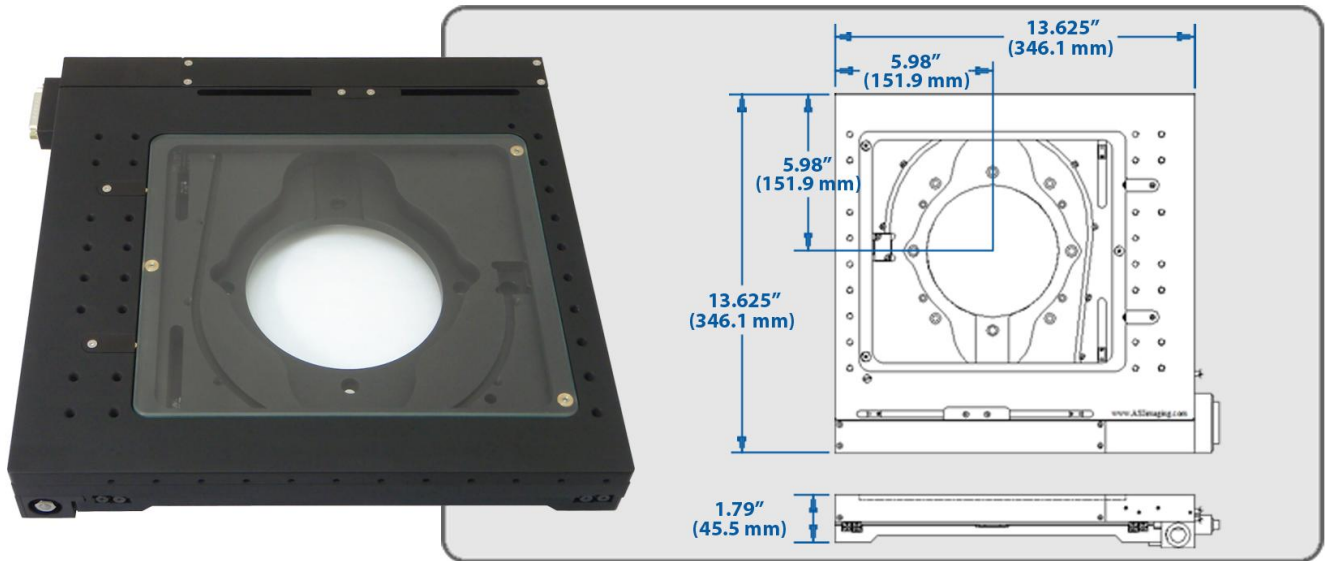


## MS-8000 XY Automated Stage



The MS-8000 stage is suited to use with large industrial inspection microscopes such as the Nikon L200/300 series or Olympus MX51/61 series. The open frame allows for transmitted light illumination. The stage can be supplied with either a glass plate insert, or a variety of large format stage inserts, including a vacuum wafer chuck for semiconductor inspection. The DC servo motor stage is compatible with either small precision anti-backlash gear-head motors or larger spur-head motors for faster speeds. The stage is also compatible with optional high accuracy linear encoders.

### Features

- Closed-loop DC servo control for precise positioning and highly repeatable focusing
- Wide dynamic speed range with XY joystick control
- Backlit LCD display shows X, Y, and Z coordinates
- "Zero" and "Home" button for simple stand-alone operations
- Compact ergonomic tabletop control unit size is 6"D x 9"W x 3"H
- Microprocessor control with RS-232 serial and USB communications
- Proven operation with many popular software packages

***We Create Solutions***

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### Lead Screw Options with 141:1 Anti-Backlash Gear-Head Motors

Lead Screw Pitch Option	Encoder Resolution	Maximum Speed	Repeatability
1/4"	22 nm	6.4 mm/sec	0.8 $\mu$ m
1/2"	44 nm	12 mm/sec	1.6 $\mu$ m
1"	88 nm	24 mm/sec	3.5 $\mu$ m

### Lead Screw Options with 3.7:1 Gear Head Motors

Lead Screw Pitch Option	Encoder Resolution	Maximum Speed	Repeatability
1/16"	210 nm	30 mm/sec	4.5 $\mu$ m
1/4"	0.84 $\mu$ m	120 mm/sec	8.0 $\mu$ m
1/2"	1.7 $\mu$ m	240 mm/sec	15.0 $\mu$ m

### Linear Encoder Options

Axis	Resolution	Scale Accuracy
XY	10 nm, 20 nm, or 50nm	$\pm$ 3 $\mu$ m per length of scale

*\*Resolution depends on stage speed*

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