

## LP150 Low Profile XY Stage



The LP150 is a low profile XY stage with 155mm x 155mm travel in a compact 300mm x 290mm x 70mm (12" x 11.5" x 2.75") envelope, making it a perfect motion platform for use in desktop inspection and metrology instruments. While compact, performance is strong. Horizontal and vertical straightness of travel is guaranteed to be better than 2 $\mu$ m/25mm, and a hysteresis-free linear encoder gives the LP150 a bidirectional repeatability of  $\pm$ 0.5 $\mu$ m.

For lower overall cost and ease of integration, the LP150 has stepper motors with integral controllers and drivers. An internal, high-flex, long life cable loop brings power and communication to the upper axis. Serial communication with a computer is configured as a multi-drop RS422/485 system. A single connection is all that is required for closed loop, XY positioning.

Specifications	
Stage Travel	155mm x 155mm
Straightness of Travel	$\pm$ 2.0 $\mu$ m / 155mm
Flatness of Travel	$\pm$ 3.0 $\mu$ m / 155mm
Drive Screw	0.050" or 0.100" Lead Screw, Anti-backlash Nut
Motor and Controller	IMS MDrive Plus
Position Feedback	0.5 $\mu$ m Linear Encoder
Bidirectional Repeatability	$\pm$ 0.5 $\mu$ m
Linear Accuracy*	$\pm$ 3.0 $\mu$ m
Input Power	24VDC Standard, 48VDC Optional
Load Capacity	10kg
Weight of Stage	5.5kg

\*After Linear Error Compensation

## LP150 XY Stage

