

LP150 Low Profile X-Y Stage



The LP150 is a low profile X-Y 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 μ m/25mm, and a hysteresis-free linear encoder gives the LP150 a bidirectional repeatability of \pm 0.5 μ 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, X-Y positioning.

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

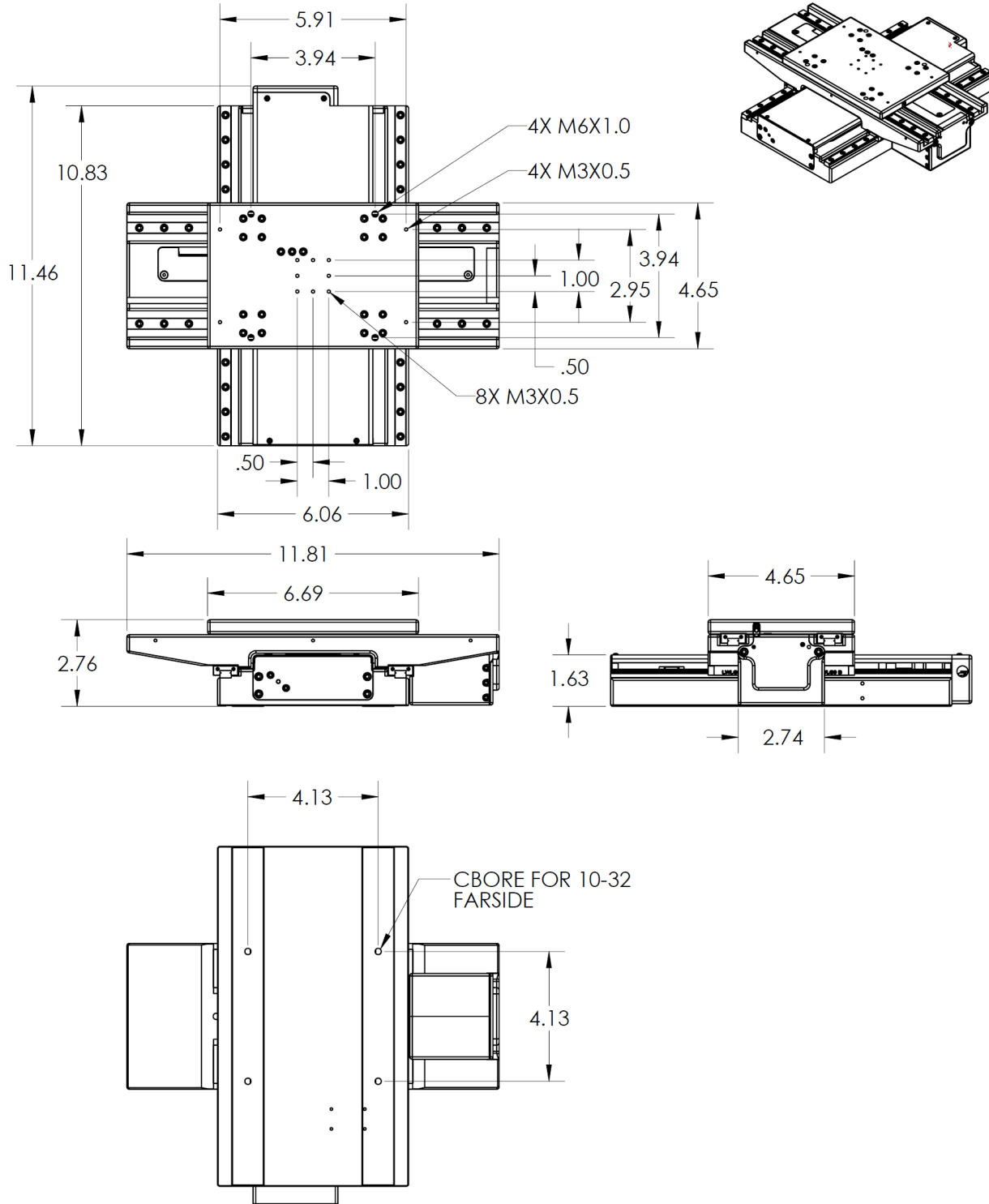
*After Linear Error Compensation



RELIANT SYSTEMS INC

Precision Automation Systems

LP150 XY Stage



12641 Fremont Avenue / P.O. Box 349, Zimmerman, MN 55398
Phone: (763) 856-8300 / Fax: (763) 856-8301 / E-mail: sales@reliantsystemsinc.com
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