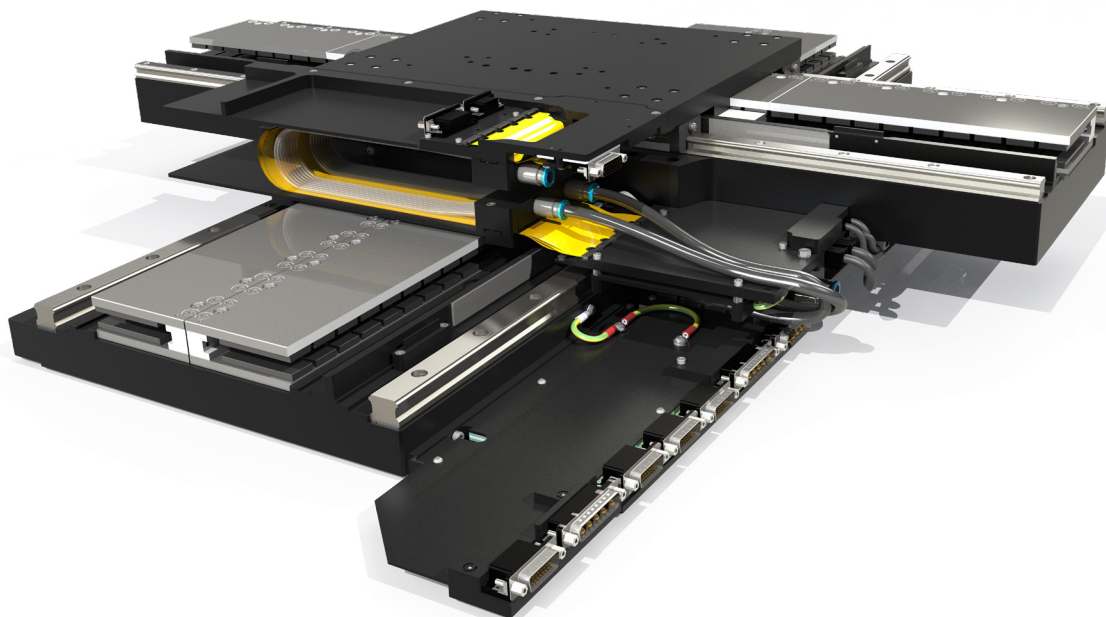


XY5-500-400 Datasheet

Overview

The Griffin Motion XY5 is a high-performance XY planar motion stage engineered specifically for the semiconductor industry. It features ironless linear motors that deliver high acceleration, high speeds, and exceptional, cog-free positioning performance. The wide rail spacing on the lower (X) axis enhances rigidity and ensures excellent flatness. Designed for long production life, the XY5 offers excellent field serviceability, allowing for quick maintenance and minimal downtime. Contact Griffin Motion for pricing, availability and customizations.



Standard Features Include:

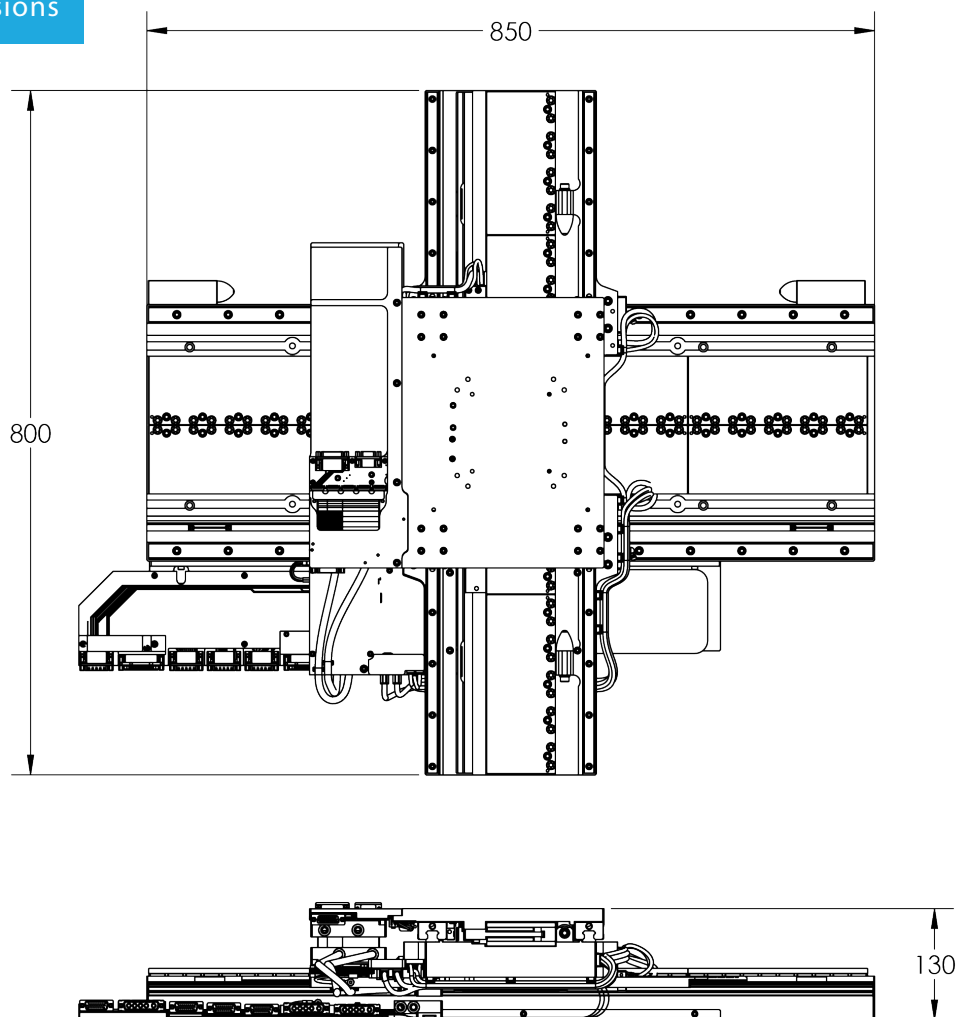
- 500 x 400mm XY Travel
- Flexible Printed Circuit (FPC) Cables, for long service life and easy field replacement
- High-Resolution Linear Encoders, 1Vpp or RS422
- Ironless Linear Motors, dual motors on X axis
- Cleanroom Compatible Construction
- Low Thermal Expansion Linear Scales

Optional Features Include:

- Integrated Pneumatics
- Cable Management for a 3rd Axis of Motion
- I/O Signals, to the top of XY
- Absolute Encoders
- Error Compensation, for high accuracy applications

XY-500-400 Datasheet

Dimensions



Specifications

Linear Accuracy (μm)	± 10 (± 2.0 Calibrated)
Bi-Directional Repeatability (μm)	1.0
X-Y Orthogonality (arc-sec)	12.0
Pitch (arc-sec)	± 12.0
Yaw (arc-sec)	± 12.0
Flatness ($\mu\text{m}/300\text{mm}$)	8.0
Straightness ($\mu\text{m}/300\text{mm}$)	8.0