



XY Scanning Solutions

High Precision • Multi-Axis Motion Platforms

Product Overview

XY Scanning Solutions from Novanta Precision Medicine deliver high-speed, high-accuracy positioning for advanced imaging and analytical workflows. Built for OEM integration, these multi-axis motion platforms combine precision mechanics, stable repeatability, and flexible configuration options, enabling tighter control, faster throughput, and higher confidence data collection.

Key Features

Designed for Precision Scanning Applications

- Provides the foundation for performance
- Delivers stable, repeatable motion

Built for OEM Integration

- Rigid mechanical footprint
- Flexible travel lengths and axis combinations
- Standardized mounting and configurable top plates
- Cable routing options for clean machine design
- Support for custom configurations and system optimization

High-Precision Motion Control

- Accurate scan positioning

Multi-Axis Configurations

- XY
- Custom architecture

Smooth, Stable Movement

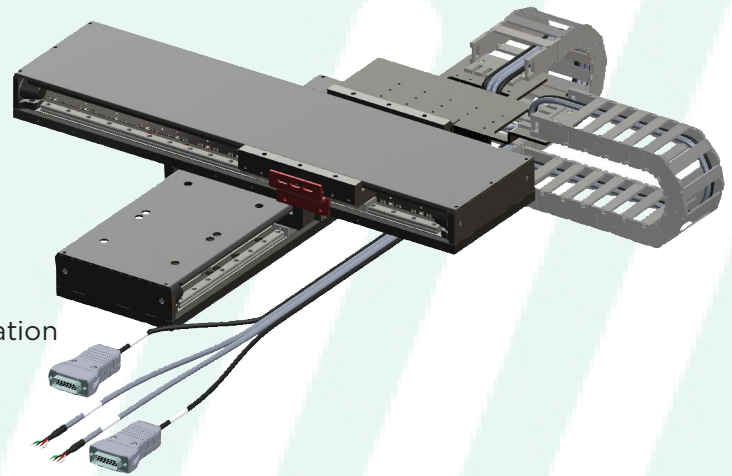
- Sensitive optical and biological imaging

Modular Designs

- Fast integration into OEM equipment

Scalable Platform Options

- Compact scanning stage to extended travel systems



Benefits for OEM Integrators

- ✓ Rigid mechanical footprint
- ✓ Flexible travel lengths and axis combinations
- ✓ Standardized mounting and configurable top plates
- ✓ Cable routing options for clean machine design
- ✓ Support for custom configurations and system optimization

XY Scanning Specifications

Description	XY Scanning Solutions
TRAVEL	200 x 270 mm
FEEDBACK DEVICE - Encoder	Analog (20 µm pitch)
BI-DIRECTIONAL REPEATABILITY	1 µm
LOAD CAPACITY	10 kg
STRAIGHTNESS (both axes)	10 µm TIR
MOUNTING SURFACE FLATNESS (top and bottom)	>8 µm TIR
TOTAL MASS, X AND Y AXES	6.7 kg
MOVING MASS - MOVED BY LOWER AXIS	2.7 kg
MOVING MASS - MOVED BY UPPER AXIS	1.1 kg

Exact performance values dependent on model configuration and application load.

**Need something
slightly different?
We can help.**

Applications

- High-Throughput Imaging and Scanning Platforms
- Automated Microscopy and Digital Pathology
- Spatial Biology and Tissue Mapping
- Confocal, Fluorescence, and High-Resolution Imaging
- Analytical Instrumentation and Diagnostics
- Automated Sample Handling and Positioning

Typical Integration Scenarios

- Integrated XY scanning stage for microscopy systems
- Stacked with Z-Axis motion for multi-axis imaging
- Embedded in OEM analytical and diagnostic instruments
- Configured as XYθ platform for sample alignment
- Large-area raster scanning architectures

Contact Us

Let's connect today and discuss how we can partner on your next project. Call **1.949.586.7442** or email us at moso-sales@novanta.com. For specific locations, please use the contact information below.

To explore our company and solutions further, including case studies, webinars and other research material, please visit our website at www.motionsolutions.com.



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