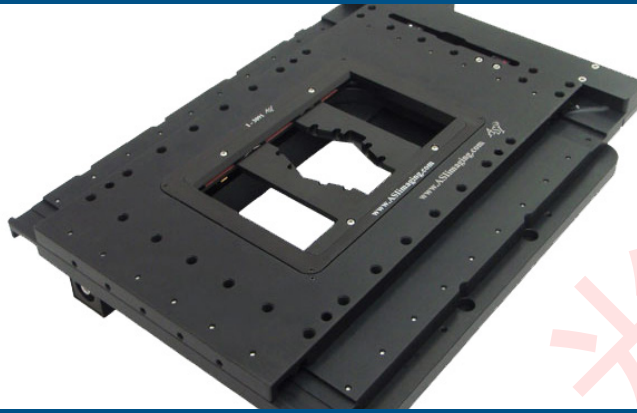


MS-2000 Flat Top XY Automated Stage



The MS-2000 XYZ stage has been specifically designed to provide a high resolution, and highly repeatable, means of controlling the X, Y, and Z position of the microscope stage. All axes derive their precise control through the use of closed-loop DC servomotors employing high-resolution rotary encoders for positioning feedback. By using closed-loop control of the stage position, there is no chance that the stage will become lost, as can occur with open-loop micro-stepped stages after a number of moves and direction changes. The MS-2000 XY stage utilizes crossed-roller slides, a high-precision lead screw, and zero-backlash miniature geared DC servomotors for smooth and accurate motion. The Z-axis drive also uses ASI's proven line of closed-loop motor drives, each custom fitted to the microscope. The microprocessor-controlled MS-2000 control unit provides for RS-232 and USB communication with a host computer.

MS-2000 Options

- Linear Encoders for high-accuracy positioning
- Larger stage top plate for attachment of micromanipulators, microinjectors, etc.
- Stage Wings for even more room for attachments
- Autofocus for stages with ASI Z-axis drives (requires NTSC, PAL, or S-Video analog signal)
- Other lead screw pitches are available

Features

- Closed-loop DC servo control of the X and Y axes for precise positioning and highly repeatable focusing
- Wide dynamic speed range with XY joystick control
- Utilizes ASI's proven Z-axis drives
- Z-axis clutch for easy switching between manual and motor-driven focus 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 (9 cm x 23 cm x 16½ cm)
- Microprocessor control with RS-232 serial and USB communications
- Proven operation with many popular software packages

Specifications for Standard Configuration

XY axis range of travel	120 mm x 75 mm
XY axis resolution (encoder step)	22 nm
XY axis RMS repeatability	< 700 nm
XY axis maximum velocity	7 mm /sec

*Shown with 6.35 mm pitch Lead Screw

