



### **MT-75 Series** Gantry Style Micromanipulator Stands

For ultimate flexibility in positioning micromanipulators or other devices adjacent to your microscope, look to the MT-75 series stands. These unique gantry systems offer adjustable vertical and horizontal axes and up to 360 degrees of rotation. Your manipulator or other device will mount to the 3/4 in. thick aluminum cantilever which is dovetailed for secure positioning. The cantilever assembly is mounted on a heavy 2 in. diameter stainless steel post. The post is supported within the same extruded aluminum tower used in our MT-70 stands. The tower can be center mounted or edge mounted to the base-plate for an additional degree of positioning freedom.

A quick lock mechanism allows easy unlocking and rotation of the post/cantilever assembly up to 320 degrees, then rotation back to the same positive stop position and locking in place (e.g. insertion and removal of microelectrodes from headstages). Remove the positive stop and you have a full 360 degree rotation. A Teflon washer contributes to the smooth rotation of the system.

The solid aluminum baseplate has through-holes on 1 inch (25mm) centers for mounting onto tables. The cantilever has eighteen 1 inch spaced 10-32 holes along the edges. The MT-75/LS manipulator mount provides additional flexibility of movement. In multiple manipulator setups, rotational movement for pipette replacement is often not possible. Using a long linear rail, the manipulator can be quickly and smoothly moved to a location where there is easy access to the

pipette for replacement. After replacement, the manipulator can be slid back into a fixed stop that defines the working position.

Vertical positioning is achieved with an aluminum collar which securely locks onto the steel post to fix the height of the system. These systems are very stiff, deflecting approximately 2 µm per 25 mm rise with a 1.5 kg load at the end of the cantilever.

The MT-75 is available in various configurations:

## MT-75 GANTRY STYLE STAND SELECTION GUIDE

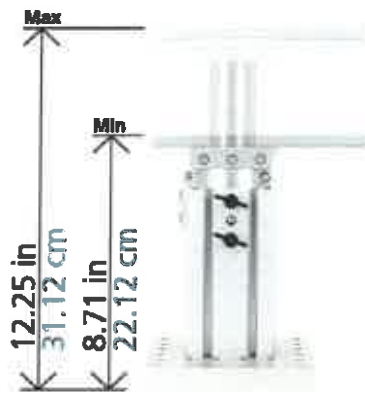
### MT-75T

For use with an inverted microscope. Independent tower solution when not using our MD manipulator or stage platforms.



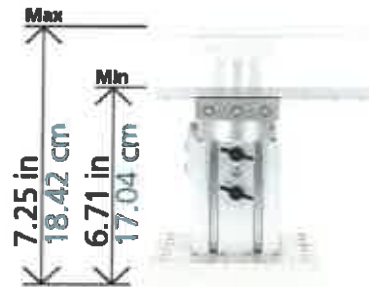
### MT-75

For use with an upright microscope mounted on a translator.



### MT-75S

For use with an upright microscope without a translator.



Please see the full [MT-75 Gantry Selection Guide](#) for assistance in selecting your configuration.

The linear slide system can also be added to existing MT-75 stands by ordering the MT-7004 linear slide cantilever alone.

### FEATURES

- Adjustable vertical and horizontal axes
- Up to 360 degrees of rotation
- Suitable for upright and inverted microscopes
- Quick lock mechanism allows for easy positioning
- Solid construction provides stable mounting
- Optional linear slide provides smooth and easy movement for pipette replacement

### TECHNICAL SPECIFICATIONS

#### Dimensions of Baseplate

6 in x 6 in x .75 in | 153 mm x 153 mm x 19 mm

#### Dimensions of Cantilever

2.5 in x 8 in x .75 in | 64 mm x 204 mm x 19 mm