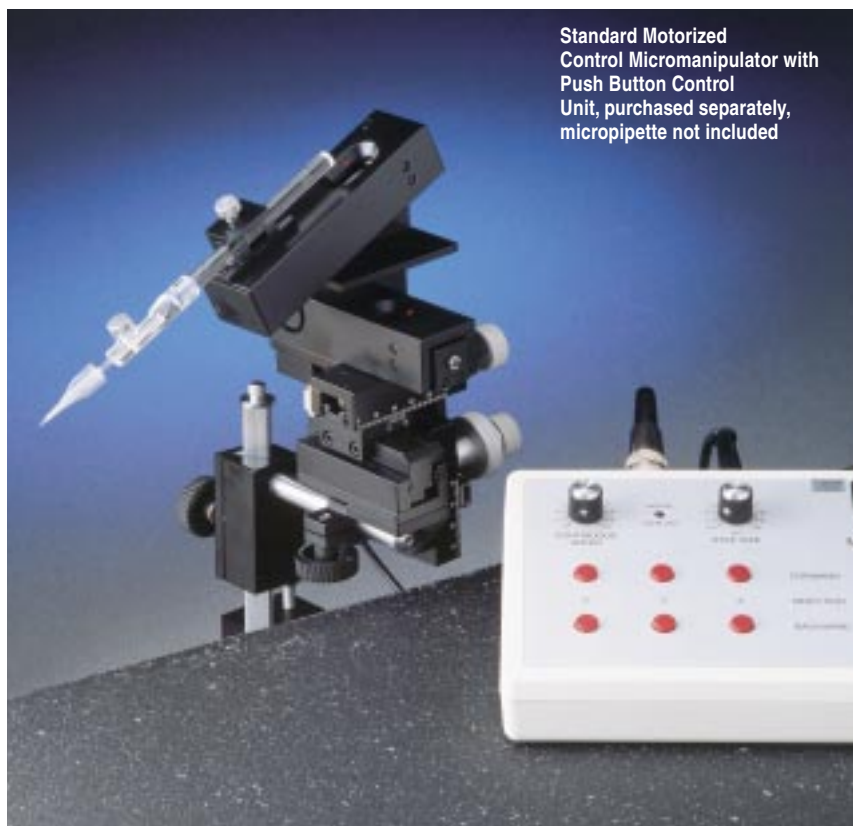


## Standard Motorized Control Micromanipulators



Standard Motorized Control Micromanipulator with Push Button Control Unit, purchased separately, micropipette not included

- Require one of four control units offered on facing page
- Available with choice of:
  - 1- or 2-tool/electrode holders
  - Tilt base or clamp mounting
  - Right- or left-handed use
- Manipulators with 2-tool/electrode holders have X-axis tilt of 90°
- 20 mm of travel in lateral (Y-axis) and vertical (Z-axis) graduated in 0.1 mm increments
- 37 mm of travel in probe direction (x-axis) graduated in 0.1 mm increments
- All three control knobs located in single plane for ease of operation and close positioning of several instruments side-by-side
- For use with microscope magnifications up to 250x
- Positioning in sub-micron range is possible
- Smallest step size is 0.5 μm
- Micromanipulator does not have to be touched for fine adjustment
- Flexible motor coupling ensures zero vibration of probe during movement

This Standard Motorized Micromanipulator has the same manual coarse adjustment for each of the three axes graduated in 0.1 mm increments: X-axis 37 mm of travel; Y- and Z-axes 20 mm of travel each. On each of the three axes there is installed an additional fine adjustment slide with built-in miniature DC-motors rotating micrometer spindles. This motorized fine adjustment has 10 mm (2-1/2 in) of travel on each axis and the scales read to 0.01 mm.

The micromanipulator with two tool/electrode holders is also available with a swing-in/swing-out platform. This feature permits the entire x-axis platform with tool holder to be swung out to the side for rapid and easy exchange and cleaning of tools, capillaries, electrodes, etc. After exchange/cleaning of tools, the platform swings back to the prior working position without losing time for readjustment. The micromanipulators with this X-axis tilt should always be mounted in the vertical position to make best use of the tilting fine control.



Detail of Fine Adjustment Control

These Micromanipulators provide 'hands off' control for fine adjustments. Each axis has a controller motor with a flexible coupling to the micrometer spindle which ensures that the probe can be moved with zero vibration. They are available with one or two tool/electrode holders. The Micromanipulator with two tool/electrode holders also has a tiltable probe (X-axis). This axis may be tilted up to 90° to help with the positioning of tools. To change or clean tools, the manual coarse controls in the Z- and X-axis can be operated without changing the set tilt. This is a substantial help when dipping over the edge of a petri dish and fine positioning into the optical axis of an inverting microscope.

Standard Motorized Control Micromanipulator			
	Tool/Electrode Holder(s)		
Handed/Base	1	2 with X-Axis Tilt	2 with X-Axis Platform Swing-Out
<b>Right-Handed</b>			
Clamp Base	CGS8060.38	CGS8064.38	CGS8066.38
Tilt Base	CGS8061.38	—	—
<b>Left-Handed</b>			
Clamp Base	CGS8062.38	CGS8065.38	CGS8067.38
Tilt Base	CGS8063.38	—	—