

## Micromanipulators



### Standard Manual Control Micromanipulator

These Micromanipulators have three stacked, stainless steel roller bearing raceways providing movement in the X, Y and Z axes. Rack and pinion drives minimize backlash and provide fast positioning and long life. The lateral (Y-axis) and vertical (Z-axis) planes each have 20 mm of travel graduated in 0.1 mm increments. The probe direction (X-axis) has 37 mm of travel. Two adjustments are provided. The coarse adjustment is graduated in 0.1 mm increments while the fine adjustment provides 10 mm of travel with precision positioning graduated in 0.01 mm increments.

A unique and valuable feature of these standard manual control micromanipulators is that the three control knobs are located in a single plane. This positioning permits one-handed control of a single instrument, without taking the operator's eyes from the microscope. It also allows several Micromanipulators to be closely positioned side-by-side with all control knobs easily accessible. They are available for both right- and left-handed use.

- Available with:
  - One or two tool/electrode holders
  - Tilt base or clamp mounting
  - For right- or left-handed use
- 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 plus 10 mm of travel with fine positioning in 0.01 mm increments
- All three control knobs located in a single plane for one-handed operation and close positioning of several instruments side-by-side
- For use with microscope magnifications up to 250x

### Tool/Electrode Holder

Each Micromanipulator is supplied complete with one or two tool/electrode holders. The second holder has two fine controls that allow movement of 8 mm in both the lateral (Y) and probe (X) direction independent of the Micromanipulator. Two additional fine controls allow this second tool/electrode holder to be tilted and swiveled.

### Tilt Base or Clamp Mounting

Each Micromanipulator is offered with a choice of either a tilt base or a clamp to mount the Micromanipulator on a 13 mm (1/2 in) OD vertical rod. For a selection of proper stands with 13 mm (1/2 in) OD rods. Optional 10 mm and 12 mm clamps are available. The tilt base permits the Micromanipulator to be tilted 80° from the vertical.

Standard Manual Control Micromanipulator		
	With 1 Holder	With 2 Holders
<b>Right-Handed</b>		
Clamp	CGS8054.38	CGS8058.38
Tilt Base	CGS8055.38	—
<b>Left-Handed</b>		
Clamp	CGS8056.38	CGS8059.38
Tilt Base	CGS8057.38	—