

MANIPULATORS

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MODELS 550/450, 350/250, 210/110

Micromanipulators are designed for positioning electrical probes on micro-miniature circuitry. This series of micromanipulators features a leadscrew ball-joint design, permitting independent X, Y, and Z axis positioning of the probes. The Models 550, 350 and 110 are right-hand models and the Models 450, 250 and 210 are left-hand models. Models 450/550 are recommended for positioning probes on sub-micron targets. Models 250 and 350 are recommended for 2 to 6 micron targets. Models 110 and 210 are recommended for 10 micron targets.

Each Micromanipulator has three (3) control knobs which independently position the probe in the X, Y, and Z axis. Micromanipulators are very compact and are designed in such a way that the operator's eyes need not be removed from the microscope eyepieces to adjust the position of the probes.

Micromanipulators are available in several mounting configurations. Micromanipulators using the magnetic base are specified, for example, as 350/360MT. Magnetic bases are OPTIONAL and must be factory installed. Another mounting method is the 0.5 in. (12.7mm) rod/post mount used for applications such as the Model 1800 Test Station or the Model 300 Stand.

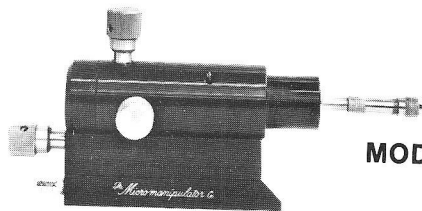
Models 450/360VM, 550/360VM, 250/360VM and 350/360VM micromanipulators are mounted on vacuum bases for positive holding power on the 2230, 6000 6620, 7000, 6400 and 6200 Test Stations. Independent X, Y and Z axis positioning of probes with 100 thread-per-inch resolution (Models 450 and 550) allows submicron probing with backlash free operation. Vacuum base mounts with push button release provide positive holding power over the entire platen surface.

The Models 8000 and 8820 Analytical Probe Stations (for 8" wafers), the 2210 In-Circuit Prober and 2240 Test Head Prober require the Models 450/360VM90 and 550/360VM90 or the

250/360VM90 and 350/360VM90 micromanipulators. These units include a low profile vacuum base arrangement.

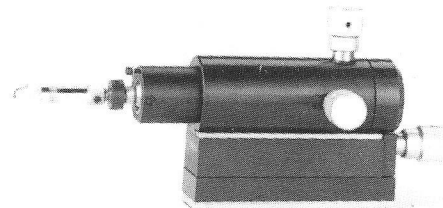
Models 450, 550, 250 and 350 are also available with magnetic bases for use with 6000 and 7000 Series Test Stations (450/360MT, 550/360MT, 250/360 MT and 350/360MT).

All micromanipulators are furnished with a Model 2 Delrin Collet, 0.040 in. (1mm) inside diameter. The collet holds and electrically isolates the probe from the micromanipulator. The delrin collet has an insulation resistance greater than 5000 megohms at 400 VDC.



MODEL 450/360VM

MODEL 350/360M



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