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REL-4800 Probe Station

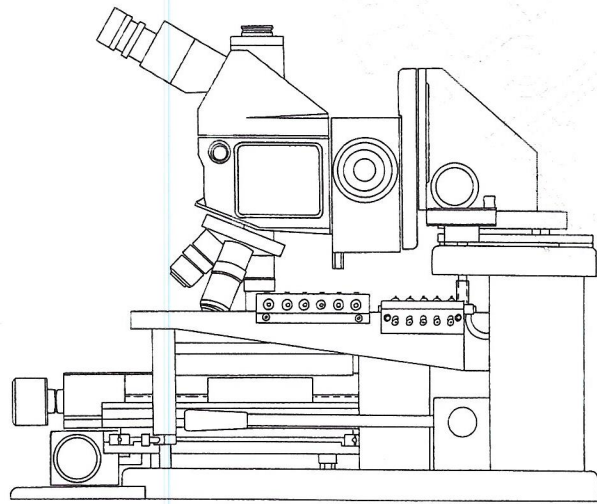


REL-4800

Our top-of-the-line manual prober has the submicron resolution, precise motion and 8-inch travel required to meet today's toughest wafer and package probing challenges.

Stability is enhanced by the massive solid aluminum base, solid steel stage with adjustable stabilizers, precision bearings and vibration-absorbing mounts. A direct-drive, zero-backlash manual positioning stage delivers smooth motion and high accuracy.

Power-assisted microscope tilt and platen lift make it effortless to use, even during the longest probing sessions. Additional features for faster, easier probing include adjustable theta motion, simple planarization, dial-in vacuum pattern selection and optional motorized drives.



A toggle switch activates the microscope tilt-back function

Stage

- ▶ 8" x 8" X-Y travel (200 mm x 200 mm)
- ▶ Sub-micron resolution, direct-drive, no belts to wear
- ▶ Massive steel design
- ▶ Oversize ball-bearing design increases rigidity and stability

Device Mount

- ▶ 8" stainless steel wafer chuck
- ▶ Planarity, 20 μ
- ▶ Flatness, 5 μ
- ▶ Theta 15° with micrometer
- ▶ Optional test card holder

Platen

- ▶ Power-assisted platen counterbalance
- ▶ Solid steel with welded construction
- ▶ Electroless nickel plated for durability
- ▶ Large 2" (50 mm) vertical travel accommodates the bulkiest device packaging or test fixture
- ▶ 0.2" (5 mm) separation lift, lever actuated
- ▶ Adjustable front stabilizers eliminate sag and vibration
- ▶ Optional microwave probing configurations and custom platen enhancements such as mounting holes and enclosures

Microscope Transport

- ▶ Power tilt-back (pneumatic actuation)
- ▶ 1" (25mm) X-Y travel with coaxial drives
- ▶ Wide-span bridge-style support improves stability and provides unobstructed rear access for cables

Microscope

- ▶ Standard Mitutoyo Finescope
- ▶ Will adapt to most microscopes
- ▶ Compatible with emission microscopes

Size and Weight

- ▶ 28.8" wide x 25.2" deep x 20.5" height (732 mm x 640 mm x 521 mm)
- ▶ 260 lb (118 kg)

Facilities Requirements

- ▶ 15" (381 mm) Hg vacuum
- ▶ 90 psi compressed air (6.3 kg/cm²)

Optional Equipment and Accessories

- ▶ Choice of three ultra-precision manual drives: standard, fine pitch or coaxial
- ▶ Motorized stage with joystick-controlled motion
- ▶ Programmable microscope transport
- ▶ Probe card holder
- ▶ Micropositioners - manual and programmable
- ▶ Laser cutting systems
- ▶ Thermal systems
- ▶ Video systems
- ▶ Vibration isolation tables
- ▶ Environmental and light table enclosures

Specifications subject to change without notice



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