

2245 Automatic Test System Probing Station

Introduction

Automatic test systems (ATS) have come common place in F/A labs because of their flexibility and high performance. Engineers need to be able to probe delidded devices placed in an ATS. The Model 2245 has been engineered specifically to accommodate delidded DUT probing access with Automatic Test Systems (ATS) from several manufacturers. It is intended to be rolled up to and over a selected system, docked with a customer-specified cabled test head adapter, suspended above the tester and provide vibration isolated probing access to the DUT. The video-enhanced motorized microscope stage is joystick and software program-positionable. A two operator platform allows convenient user access to the work area. Wide work shelves provide space for test equipment components.

The Model 2245 automatic test system probing station is another in the new series of *application specific* analysis tools from The Micromanipulator Company. It has been designed to allow probing access to delidded DUTs operating at design speeds. The robust size accommodates ATS from HP, Schlumberger, IMS and Teradyne. It may be immobilized after positioning. Upon releasing the docked test head adapter, the ATS is lowered from the adapter, allowing the 2245 to support and isolate it from any tester vibration.

Features

- Air column vibration-isolating table is self-leveling after initial height adjustment.
- Large frame under area allows access by many ATS manufacturers' products.
- Massive microscope mount for maximum stability allows it to be far-removed from the work area during device change-outs.

- Full work area optical access by 8" x 8" x 8" (20cm x 20cm x 20cm) programmable microscope stage also controllable via joystick and mouse.
- Unique *Tilthead* microscope eyepieces provides each user with a comfortable, adjustable viewing angle.
- The test head adapter-specific platen is removable and planarizable to the optical bench-quality work top.
- Standard operator's platform accommodates up to two users simultaneously.
- Optional operator's platform is adjustable in height to customize to users' stature.
- May employ most Micromanipulator probing products including 900-series software/joystick controllable manipulators.
- Pentium™ based computer may interface with a variety of test instrument software programs via EIA-232 and/or optional IEEE-488 buss'.

Specifications

Work surface

- 80" x 48" x 4" (203cm x 122cm x 10cm) WxDxH optical bench-quality with sealed magnetic stainless steel surface skin.
- Massive $\pm 11"$ (28cm) microscope travel bridge with positive manual locks.
- Sealed underside relief slots to accommodate IMS Logic Master ATS2 elevator 'ears'.

Support Table

- 78" x 47" x 53", 4,000 lb. (198cm x 119cm x 135cm, 1,815 kg) WxDxH isolation frame, ~50" (127cm) H clearance beneath.
- Accommodates several HP, Schlumberger, Teradyne and IMS automatic test systems.
- Vertical air column suspension.
- Active servo-controlled self-leveling system.
- 5" (13cm) casters with robust lockable screwjack immobilizers.
- 2 each 5-port vacuum manifolds, 6-outlet duplex electrical strip, dual remote EMO.
- 3-piece surround shelves for operator support.



1555 Forrest Way
Carson City, NV 89706
info@micromanipulator.com
www.micromanipulator.com

Tel: 775-882-2400
Tel: 800-654-5659
Fax: 775-882-7694
Made in the USA

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Specifications subject to change without notice.

Platen

- 26" x 20" x 0.375" (66cm x 40cm x 1cm) WxDxH, magnetic stainless steel skin, docks with customer-defined test head adaptor. Locating and locking devices and planarizing adjustments.

Microscope and Mount**Mount**

- 8" x 8" x 8" (20cm x 20cm x 20cm) X-Y-Z programmable motorized system controllable by joystick, mouse and software programs. EZ-Lift standard.

Microscope

- U.S. Microscope Company model US100 with US-Tilthead eyepiece trinocular and video camera.
- Optional Mitutoyo with FS-Tilthead trinocular.

Computer

- Pentium™ based processor.
- 17" (43cm) SVGA monitor.
- Joystick and mouse.
- 'Anthro' cart.
- Windows95™, pcProbe II™, pcBridge™ and pcVideo™ software.
- 20' (610cm) *table to computer* remote cabling.

Operator's Platform

- Standard 60" x 36" X 15" (152cm x 91cm x 38cm) WxDxH mobile platform with positive 'step-on' immobilization.
- Optional 16" to 22" (40cm to 56cm) platform height adjustable.

Facility Requirements**Power:**

117V/60Hz 10A standard, 220V/50Hz CE optional.

Vacuum: 20" Hg**Air Pressure:**

Shop air 80-100 psig

Dimensions and Finish**Overall size:**

- Table: 80" x 48" x 74" (203cm x 122cm x 188cm) WxDxH with camera.
- Platform: 60" x 36" x 19" (152cm x 91cm x 48cm) WxDxH overall with side rails: 48" (122cm) H.
- Cart: TBD

Weight:

- Table: 1700 lb (770 kg)
- Platform: TBD by user
- Cart: TBD by user

Finish:

- Table: Textured black epoxy
- Platform: Black
- Cart: 'Bone'