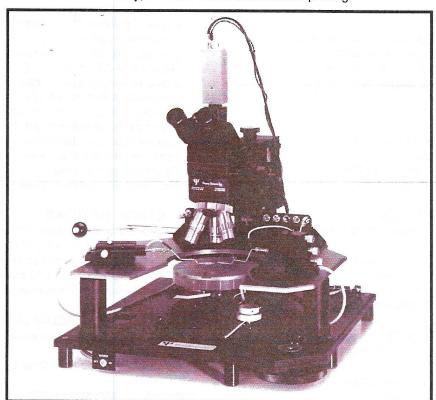
Probing Solutions Inc. PSI 400 / 410

HIGH VALUE MANUAL 6" to 8" Wafer Probe Station

The PSI 400 / 410™ Manual Wafer Probe Station is a powerful, yet economical 6" / 8" easy to use an analytical wafer probe station. The PSI 400 / 410™ is ideally suited for a wide range of engineering applications. These include Design Analysis, Failure Analysis, Production Process Analysis, ESD effect, Electromigration, High Voltage, Low Current / Low Noise, Microwave, CV / IV. A truly versatile "Shouldn't be without" Manual Analytical Lab Tool for small feature probing.

U K P 0 I I N G



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Features Include:

- The PUSH /PULL and coaxial X-Y manual stage controls are easily operated with one hand, while positioning the Wafer and Manipulators looking through the Microscope. Has a General Purpose Probing Target Capability 3mm and larger.
- The Vacuum Wafer Chuck is selectable as 6" or 8" diameter either of which is capable of accepting smaller 5", 4", 3" Wafers. Wafer Slices, individual Die or Hybrid Substrates are accommodated on 6" or 8" Chucks using an accessory VAC-PUC vacuum concentrator on the chuck surface. Vacuum Wafer Chucks are available for Ambient, Hot and Cold Temperature, Coaxial. Triaxial and Low Current / Low Noise versions with Gold Plated or Stainless Steel Wafer surfaces.
- Microscope Lift Delay adjustment which allows the Probes to be raised from the wafer independent of the microscope, without changing their individual positioning and avoiding any possible collision with microscope objectives. When returned to the platen down position, the Probes return to their original positions and the microscope to its "In Focus" position and analysis can resume undisturbed.

- The PSI 400 PLATEN "Z" LIFT has vertical Locking Position. The PSI 410 PLATEN "Z" LIFT has 12 selectable vertical Ratchet Positions: 3 inches (76mm).
- High magnification US MICROSCOPE CO. Scientific, Analytical. 2X Zoom, Trinocular Microscopes with 10X Eyepieces, 2X, 10X, 20X plan apochromatic Objectives offer the highest visual acuity optically available today. Microscope accessories also available are 50X SLWD (22.5mm), 100X SLWD (13mm), Wide Field CCD Camera adapters, Higher Magnification, Eyepieces, Polarizers, Tiltheads and much more.
- MODULAR DESIGN: The 400 Series Wafer Probe Stations are designed as a platform on which to build on as the Engineering Analytical Analysis task expands with design discipline as feature size shrinks. A wide variety of system accessories and upgrades are readily available to fit changing needs.

SPECIFICATIONS

PLATEN

243 square inches accepts 10 or more manipulators
Magnetic stainless-steel with ground-grained surface
3 point belt driven support/lift provides excellent stability
Optional manifolds; BNC, TRIAX, TRIAX/BNC and
HP/KELVIN

Fine "Z" Lift Control

True planar vertical motion with micron precision Relative "Z" position indicator (selectable)
Large 6" (152mm) diameter "Z" control dial Resolution: 2 microns per degree of revolution Range: 1" (25.4mm)

Fast "Z" Lift Control

Platen lift with three lock up positions Platen range: 1" (25.4mm) Adjustable microscope delay: 0" to 1" travel Raises microscope from 1.25" to 3.0"

VACUUM CHUCK OPTIONS

6" (152mm) for 3" to 6" wafers or 8" (200mm)
for 4" to 8" wafers
Stainless-steel for low contamination, or gold plated brass
Flatness ± 0.0005" (± 12 microns)
Electrical isolation exceeds 5 Teraohms
Electrically wired to BNC connector on platen

FACILITY REQUIREMENTS

Power: 110V/60Hz standard, 220V/50Hz optional (2 amps)

Vacuum: 20" of mercury vacuum stage, vacuum based manipulators

DIMENSIONS, FINISH AND WEIGHT

23.5" (60cm) D x 37" (94cm) W x 32" (87cm) H Grained black anodized aluminum, stainless-steel for long life 162 lbs. (74kg)

SHIPPING INFORMATION

39" (99cm) D x 37" (94cm) W x 32" (81cm) H, with pallet Shipping weight 220 lbs. (100kg) approximate

VISIT OUR WEBSITE AT:

WWW.PROBINGSOULTIONS.COM

MICROSCOPE POST AND MICROSCOPE OPTIONS

X-Y translation: 2" x 2" (50.8mm x 50.8mm)
Optional model 404: 4" x 4" (101.6mm x 101.6mm)
PSI 400LS: Hinged dependent Vertical lift; 1.25" to 3.0"
PSI 410LS: Independent Vertical Lift/Lock 12 selectable positions; 3" range
Focus (Z) motion 2" (50.8mm) standard; up to 8" (200mm) option
Coaxial coarse/fine focus control knobs
USMC-STD-2Z-V1/V2 with 2:1 zoom in body recommended 3 long working distance objectives (2X, 10X and 20X)
Adjustable 4-Port nosepiece
Optional 50X and 100X objectives
Trinocular head with camera port, 10X objectives
Coaxial fiber optic illuminator (150W)
Optional Tilthead; your choice of flip mirror or prism

X-Y STAGE OPTIONS

Optem A-Zoom available

Precision X-Y screw drive / STG-MIC 6" x 6" (152mm x 152mm) or 8" x 8" (200mm x 200mm) Stage and chuck planarized at factory Theta rotation control: ± 12 microns (100 T.P.I. leadscrew) Proven ball and rail construction

SOCKET STAGE ADAPTER OPTIONS

Meiji EMZ-TR Stereo Microscope available

Holds PCB zero insertion socket cards for probing packaged part devices

Adapters: 4.5" x 4.5" to 6" wide cards

PROBE CARD HOLDER - PCH OPTION

Holds probe cards for wafer probing PCH: 4.5" or 4.5" to 6" wide/adjustable

LOCAL	SALES	REPRES	SEN	TAT	LIVE