

S2000

Semi-Automatic Prober

General Purpose Prober for 2"-8" Wafers



Wentworth S2000 semi-automatic prober is an economical choice for general purpose probing.

Versatile and Cost-Effective Probing

Wentworth S2000 semi-automatic prober is a highly versatile general purpose prober that is easily adaptable for multiple applications such as failure analysis, WLR, QRA and characterization. S2000 delivers 1 micron resolution for 2-inch to 8-inch full and partial wafers.

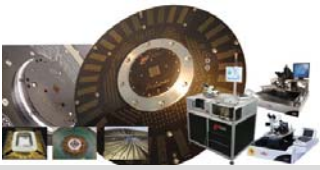
Ergonomic and Flexible Design

S2000's compact design features a large area platen to accommodate open front probe card holders and correspondingly large 4.5-inch and 6-inch wide probe cards. Production-proven Wentworth probing technology ensures continuous stepping accuracy.

Wentworth offers an extensive selection of vacuum and magnetic format manipulators for the S2000. Precision S2000 microscope movement is accomplished with a choice of manual or programmable microscope mounts and stereo- or micro-optic packages. For certain emission microscopy applications, the S2000 microscope bridge is removable.

Features to Maximize Probing Performance

- Temperature chuck and laser compatible
- 10.5-inch open front probe card holder option
- Maximum platen surface area for wide probe cards
- Manual or programmable microscope mounts
- Microscope quick lift and removable bridge
- Micro-zoom (Mitutoyo/A-Zoom) or stereo-zoom optics



Wentworth Laboratories offers vertical probe card solutions for both memory and logic applications, advanced cantilever probe cards, complete custom probe card design, and a full complement of probers for applications up to 300mm. For more about Wentworth's full turnkey solutions, please visit us on the web at <http://www.wentworthlabs.com>.

S2000 Specifications

XY Stage

Type	High precision re-circulating ball screws
Stage Travel	210 mm x 210 mm (8.27" X 8.27")
Resolution	1 μ m
Motor Drive	Stepper Motor
Z Travel	10 mm (0.394")
Repeatability	\pm 2 μ m
Accuracy	\pm 5 μ m

Wafer Chuck

Size	205 mm (8.07")
Material	Nickel-plated aluminum
Planarity	0.0127 mm over 205 mm (0.0005" over 8")
Hold Down	Vacuum

Probe Platform

Z Travel	50 mm (2") vertical lift
Material	Nickel-plated steel

Physical Dimensions – Base

Width	508 mm (20.01")
Depth	639 mm (25.17")
Weight	75 kg (165 lbs)
Height at Optics	560 mm (22")

Services

Vacuum	15" Hg
Electrical	90-132 VAC 50/60 Hz

Communications	RS232/TTL, GPIB (IEEE 488)
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Options

High Power Microscope Package, includes: Finescope body, standard turret, manual focus block, fiber optic illuminator, 10X eyepieces, 2X, 10X and 20X objectives
Deluxe manual microscope mount includes Quick-Lift
Programmable Microscope Mount, Motorized Microscope Mount
Color video system, includes: high-resolution color camera power supply, CCTV adapter, and BNC to BNC camera to monitor cable
17" LCD color video monitor
4.5" and 6" low profile probe card holder (PCH) for S2000
PVX 500 universal manual positioned. Separate magnetic and vacuum option available
Short nose articulated long arm front end for 4", 6" or 8" probing
Coax needle holder for 0.010" diameter shank needles. Consult factory for available needle specifications.
Vibration free isolation table
Temptronic Chuck
Mitutoyo/A-Zoom Optics
Pegasus™ CAP, computer-assisted probe unit
LabMaster™ Graphic User Interface
Dark Box
Computer

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