

PB1200

specifications



utilities	<p>AC Input Power: 115 VAC 50/60 Hz, Single Phase @ 15A service or 230 VAC 50/60 Hz, Single Phase @ 15A</p> <p>AC Fuse: 10A @ 115 VAC; 5A @ 240 VAC</p> <p>Vacuum Supply: Input: $\geq 25"$ of Mercury</p> <p>Requirements: Consumption: 3 SCFM</p>																		
mechanical specifications	<p>Physical Dimensions: Height: 62" (157.5 cm) (includes bench & monitor) Width: 45" (114 cm) Depth: 43" (109 cm) Weight: 450 lbs. (205 kg) Tie Down: Earthquake Tie Down Provided Portability: Bench-top Configuration</p> <p>Measurement Area / Stage: Flatness: $\leq 0.0005"$ TIR Raised Planarity Test Pin: 3 mil Std. (1-5 mil optional) Customer Changeable Maximum Probe Array: 3" x 3" Gram Force Measurement: Optional Gram Force Pin: 3 mil Std. (1-5 mil optional) Customer Changeable Stage: X, Y Ball Screw Drive Max Total Probe Tip Force: 50 lb (22.7 kg) Travel: X = 6" (15.2 cm), Y = 6" (15.2 cm), Z = 0.5" (1.3 cm)</p> <p>Probe Card Interface: Accommodates: Various ITC Probe Card Adaptor Plates Mounting: Vacuum Attachment</p> <p>Video System: Alignment Resolution: 0.5 micron Type: B/W No. of Probes / Capture: 1 - Single Pin, 4-12 - Multi-Pin Capture (Pitch Dependent) Min. Probe Size: 0.2 mil Max. Probe Size: 10 mil Binocular Microscope: Leica MZ12.5, standard (other types optional)</p>																		
pc computer	<p>Standard Hardware: Processor: Pentium 4, ≥ 2.0 GHz Industrial Computer Operating System: Windows 2000 w/ODBC Database for Programs & Data Hard Drive: ≥ 60 Gb Memory: ≥ 512 MB PC 100 Peripherals: 3.5" Floppy, CD-RW ROM Monitor: High Resolution 15" Color LCD, CE Approved I/O: Ethernet Card, USB (2 Hubs)</p>																		
environmental requirements	<p>Ambient Temperature: Operating: 68°F +10°F/-5°F (20°C + 6°C/-3°C) Highest Accuracy & Repeatability: 68°F \pm 2°F (20°C \pm 1°C) Storage: 20°F - 102°F (-6°C - 39°C)</p> <p>Cleanliness: Recommended: Class 10,000 (or better) Clean Room</p> <p>Humidity: Operating: 0% - 70% RH (Non-condensing) Storage: 0% - 80% RH</p>																		
probe card adaptors	<p>Weight: Adapter: Approx. 15 lb. (6.8 kg) Retainer: Approx. 10 lb. (4.5 kg) Max. Probe Card Diameter: 17" (43.2 cm) Edge Cards: 4" to 8" (10 to 20 cm) Tools Req'd to Change Card: None for most probe card styles Calibration: Adjustable Planarity to 0.1 mil (2.54 microns)</p>																		
general	<p>Compliance Standards: Semi S2-93 & S2-93A Safety Guidelines: Standard Semi S8-95 Ergo Guidelines: Standard CE Mark: Standard Other Standards: ANSI/RIA R15.06-1992 (Robotic Safety), NIST Q, ASTM 5, FCC 47, EMC Directive 89/336/EEC, EN 50082-1:1992 (ESD), EN 55022:1988 (Emissions), EN 60555-2:1992 (Harmonics), EN 61000-3-3:1996 (Flicker) NIST Traceability: Standard</p>																		
accuracy specification	<table border="1"> <thead> <tr> <th>Test</th> <th>Travel</th> <th>Load</th> <th>Resolution</th> <th>Accuracy (\pm)</th> <th>Repeatability (\pm) 3σ</th> </tr> </thead> <tbody> <tr> <td>Planarity</td> <td>0.5" (Z)</td> <td>50 lbs.</td> <td>0.1 micron</td> <td>3.0 micron (0.12 mils)</td> <td>2.0 micron (0.08 mil)</td> </tr> <tr> <td>Alignment</td> <td>6" x 6" (X x Y)</td> <td>50 lbs.</td> <td>0.1 micron</td> <td>3.0 micron (0.12 mils)</td> <td>2.0 micron (0.08 mil)</td> </tr> </tbody> </table>	Test	Travel	Load	Resolution	Accuracy (\pm)	Repeatability (\pm) 3 σ	Planarity	0.5" (Z)	50 lbs.	0.1 micron	3.0 micron (0.12 mils)	2.0 micron (0.08 mil)	Alignment	6" x 6" (X x Y)	50 lbs.	0.1 micron	3.0 micron (0.12 mils)	2.0 micron (0.08 mil)
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Note: Specifications are subject to change without notice.

F.S. = Full Scale of the Given Range

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spec sheet