PB6500
specifications

PROBILT™ BY ITC Integrated Technology Corporation

spec sheet

utilities	*AC Input Power:*	100 to 240 Vac 50/60 Hz, Single Phase @ 15A service	
	AC Fuse:	10A @ 115 VAC; 5A @ 240 VAC	
	Vacuum Supply:	Input:	≥25" of Mercury
	Requirements:	Consumption:	3 SCFM
	Air Pressure:	None Required	
mechanical specifications	*Physical Dimensions:*	Height:	54" (137 cm)
		Width:	63" (160 cm)
		Depth:	43" (109 cm)
		Weight:	905 lbs. (411 kg)
		Tie Down:	Earthquake Tie Down Provided
		Portability:	12 Rolling Casters & 8 Heavy-Duty Rubber Feet Provided
	Wafer / Measurement Stage:	Diameter:	11" X 9.5" Semi-Round
		Flatness:	0.0002" TIR
		Planarity Test Area:	12" x 8"
		Raised Isolation Pin:	3 mil Std. (1-5 mil optional) Customer Changeable
		Flush Isolation Pin:	3 mil Std. (1-5 mil optional) Customer Changeable
		No. of Isolation Pins / Chuck:	3 Different Size or Type Isolation Pins at the Same Time
		Gram Force Pin:	3 mil Std. (1-5 mil optional) Customer Changeable
		Max Total Probe Tip Force:	660lb (300Kg)
		Travel:	X = 12" (30.5 cm), Y = 8" (20.3 cm), Z = 0.75" (1.9 cm)
	Test Channel Multiplexer:	Type:	Solid State, Cableless
		Size/Modularity:	Up to 12,032 Channels in 128 Channel Increments Each channel also capable of relay control
	Hinged Probe Card Adapter:	Accommodates:	Various ITC Motherboards & Flipping of Probe Card for Repair
		Operation:	Motorized Elevator
	Video System:	Alignment Resolution:	0.1 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
		Upper Video:	Live Upper Video Standard
pc computer	*Standard Hardware:*	Processor:	Quad Core Processor, ≥3.0 GHz Industrial Computer
		Operating System:	Windows 2000 or XP Pro w/ODBC Database for Programs & Data
		Hard Drive:	≥500GB SATA Drive
		Memory:	≥4GB
		Peripherals:	DVD RW
		Monitor:	High Resolution 19" Color LCD, CE Approved
		I/O:	Ethernet Card, I Serial Port, & 4USB ports
measurement system	*Number of Channels:* (4-Wire Kelvin Measurement)	Standard:	3,072
		Optional:	Up to 12,032
		Maximum Signal Pins:	12,032
		Maximum Total Pins:	200,000
		Relay or FET Drive:	Any Channel
	Compliance Voltage:	DC Test	Software Adjustable from 3 to 10 Volts DC
	Components:	Resistors:	Serial & Parallel
		Capacitors:	Parallel
environmental requirements	*Ambient Temperature:*	Operating:	68°F +10°F/-5°F (20°C +6°C/-3°C)
		Highest Accuracy & Repeatability:	68°F ± 2°F (20°C ±1°C)
		Storage:	20°F - 102°F (-6°C - 39°C)
	Cleanliness:	Recommended:	Class 10,000 (or better) Clean Room
	Humidity: *(Non-condensing)*	Operating:	10% - 70% RH
		Storage:	0% - 80% RH
motherboards	*Weight:*	Motherboard:	Approx. 90 lb (40.8 kg)
		Retainer:	Approx. 25 lb (11.3 kg)
		Max. Probe Card Dia.:	22" (55.9 cm)
		Edge Cards:	4" to 8" (10 to 20 cm)
		Tools Req'd to Change Card:	None
		Coupling:	Repeatable Kinematic Coupling
		Calibration:	Adjustable Planarity to 0.1 mil (2.54 microns)

Note: Specifications are subject to change without notice. *F.S. = Full Scale of the Given Range* *RDG = % of Reading*

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general

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:	Optional

accuracy specification
electrical measurements

Test	Range	Forcing	Compliance	Resolution	Accuracy (±)
Resistance	0 - 1Ω	7 mA	10V	0.00004Ω	1% F.S. + 0.001Ω
	0 - 10Ω	7 mA	10V	0.0004Ω	1% F.S.. + 0.010Ω
	0 - 100Ω	7 mA	10V	0.004Ω	0.5% F.S.. + 0.100Ω
	0 - 1kΩ	7 mA	10V	0.04Ω	0.5% F.S. +1.000Ω
	0 - 10kΩ	0.9 mA	10V	0.347Ω	0.5% F.S. + 10.00Ω
	0 - 100kΩ	10V	1mA	3.125Ω	0.5% F.S. + 100.0Ω
	0 - 1MΩ	10V	10μA	31.25Ω	0.5% F.S. + 1kΩ
	0 - 10MΩ	10V	10μA	312.5kΩ	1% F.S. + 10kΩ
	0 - 100MΩ	10V	10μA	3125kΩ	1% F.S. + 100kΩ
Leakage	0 - 1μA	10V	10μA	30pA	0.1% RDG + 0.001μA
	0 - 10μA	10V	10μA	300 pA	0.1% RDG + 0.010μA
	0 - 100μA	10V	10μA	3,000 pA	0.1% RDG + 0.10μA
	0 - 1000μA	10V	10μA	30,000 pA	0.1% RDG + 1.0μA
Capacitance	10nF	100μA	10V	10pF	1% F.S. + 10pF
	100nF	100μA	10V	100pF	1% F.S. +100pF
	1μF	1 mA	10V	1nF	1% F.S. + 1nF
	10μF	1 mA	10V	10nF	1% F.S. +10nF
	100μF	10 mA	10V	100nF	1% F.S. + 100nF
	1,000μF	10 mA	10V	1μF	1% F.S + 1μF
	10,000μF	10 mA	10V	10μF	1% F.S + 10μF
	>10,000μF	Contact Factory for Specifications			

accuracy specification
physical measurements

Test	Travel	Load	Resolution	Accuracy (±)	Repeatability (±) 3s
Planarity	0.75" (Z)	100 lbs.	0.1 micron	2.0 micron (0.08 mils)	1.0 micron (0.04 mil)
Alignment	12" x 8" (X x Y)	100 lbs.	0.1 micron	2.0 micron (0.08 mils)	1.2 micron (0.05 mil)
	Range	Compliance	Resolution	Accuracy (±)	Repeatability (±) 3s
Gram Force	0 - 30 gram	30 gram	0.1 gram	1% F.S. + 0.1 gram	0.15 grams
	0 - 60 gram	60 gram	0.2 gram	1% F.S. + 0.2 gram	0.30 grams

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