

Utilities	AC Input Power	380–480 VAC; 3 phase + ground; 48A
	Vacuum Supply Input	–24 In-Hg (–0.8 bar)
	Vacuum Consumption	0.36 SCFM (10l/min)
	Air Pressure	Operating 87.0 PSI (6 bar) Min/Max: 80 PSI (5.5 bar)/ 145 PSI (10 bar)
Physical Dimensions	Height x Width x Depth	191.5 cm x 369 cm x 185 cm
	Weight	9038 kg Autoloader Version / 7060 kg Debug Version
	Tie Down	Earthquake Tie Down Provided
	Portability	FSE required to move
Environmental Requirements	Ambient Temp Operating	68–74°F (20–23°C)
	Cleanliness	Class 10,000 or better
	Humidity Operating	Dewpoint 45.9–60.9°F (7.7–16.0°C)
Compliance and Standards	Semi S2–93 & S2–93A Safety Guidelines	Standard
	Semi S8–95 Ergo Guidelines	Standard
	NFPA 79	Standard
	CE Mark	Standard
PC Computer	Processor	i9 @ 4.7GHz
	Operating System	Windows 10
	Storage	2SSDs in RAID configuration (1TB system, 1TB data)
	Memory	32 GB
	Monitor	Dual 24" touchscreen displays
	I/O	4 ethernet ports
Probe Card Interface	Type	Accommodates any tester platform
	Motherboard Weight	Up to 230 kg
Wafer / Measurement Stage	Diameter	Up to 12", 300 mm
	Flatness	100 mm: 2 µm TIR (Ceramic or Conductive) 300 mm: 5 µm TIR (Ceramic or Conductive)
	Pop-up Isolation Pin	50 µm Standard. Optional sizes available
	Max Total Probe Tip Force	600 kg
	Travel	X ≥ 300 mm, Y ≥ 300 mm, Z ≥ 100 mm
Optical Inspection System	Type	White Light Interferometer (WLI)
	Encoder Resolution	0.01 µm
	Optical Resolution	0.8 µm standard. Customizable
	Optical Field of View Size	0.86 x 0.81 mm. Configurable per customer need
	3D Tip Morphology	Optional
	Upper Video	Debug mode binocular microscope/video standard

Electrical Measurement System	Type		Solid State Switch Matrix			
	Number of Channels		2304 channels per SmartSocket; 9216 Standard. Up to 18432 optional			
	Per Smart Socket:		Measuring channels per SS: (up to 100 mA, 10Vdc): 2304 Relay Cbit (150 mA): 120 Special Relay Cbit (500 mA): 20 High Current Relay: 8 (6 HCR matrix @ 2A, 2 HCR @ 2A EXT. Power supply auxiliary)			
	Components		Resistors: Serial and Parallel			
	Components		Capacitor: Parallel			
Electrical Measurements	Channel Current Spec		Current supply range = 0.005 to 100 mA; user/recipe programmable			
			Step Size 5 μ A			
			Accuracy 0,15 μ A			
			Limit Voltage Range 1.7-10 V			
			Limit Voltage Step Size 50 mV			
			Settling Time from 0.005 to 100 mA < 50 msec			
	Channel Voltage Spec		Voltage Range 0.1 to 10 V; user/recipe programmable			
			Voltage Step Size 50 mV			
			Voltage Accuracy 8 mV			
			Limit Current Range 1.5 to 150 mA			
			Limit Current Step Size: 1.5mA-5mA step size = 16 μA 5mA-10mA step size = 65 μA 10mA-20mA step size = 270 μA 20mA-50mA step size = 1.75 mA 50mA-100mA step size = 7.2 mA			
	Resistance Measurement		6* σ <1% of nominal value			
	Leakage Measurement		$\sigma \leq 0.2$ nA			
	Capacitance Measurement		$\sigma < 1\%$ of nominal value			
DC Loopback Test	Fast Post		2			
	Fast Post Diameter		50 μ m Standard. Optional sizes available			
	Fast Post Min Separation		25 μ m			
	Fast Post Max Separation		35 mm x 35 mm square			
	Fast Post Z Travel		4 mm			
Physical Measurements	Planarity	Travel	Load	Resolution	Accuracy ($\pm$)	Repeatability ($\pm$) 3s
		100 mm	600 kg	0.05 μ m	0.5 μ m / 1 mm	Plate (bulk): 1.0 μ m Fast post: 3.0 μ m
	Alignment	12"	-	0.01 μ m	XY: 0.5 μ m / 300 mm	XY: 0.6 μ m
					Z: <0.4 μ m / 1 mm	Z: 0.45 μ m
	Gram Force	Range	Repeatability ($\pm$) 3s			
		0-10 g	0.03 g			

Note: Specifications may change without notice.

