

The PA300 is a precise and flexible semi-automatic test solution for wafers and substrates up to 300 mm. It is ideal for failure analysis (FA), device characterization and modeling from DC to 500 GHz.

The PA300 utilizes precisely machined components to ensure the highest accuracy and stability. The ground slides and ball-screw drives in closed-loop positioning with glass scales produce excellent performance. Based on your application requirements, you can choose between vacuum, magnetic, or dedicated high-frequency probe platens.

In order to provide maximum flexibility, our modular design concept allows us to mount microscopes based on your needs. This gives you the freedom to upgrade your PA300 from a simple manual microscope stage to a fully programmable microscope with high magnification.

The PA300 is controlled by our unique ProberBench™ operating environment which consists of an independent electronics rack, a joystick controller with integrated color LCD display for full prober control with or without a PC, and a truly flexible PC-based graphical user interface (GUI).

A wide range of accessories and upgrade options are available to optimize test productivity and ease-of-use.

FEATURES / BENEFITS

Precision	High Z-axis resolution Stable, Linux-based controller with optional TTL or GPIB interfaces Manual or motorized holder for backside measurement equipment	
Flexibility	Variety of wafer carriers, glass chucks, mechanical edge clamping solutions	
	Wafer-handling robot can be docked onto prober	
	Easy to integrate with ProberBench operating environment	
	VisionModule™ available for automated testing processes	
	Interfaces to all major analysis instrumentation, optics software, and testers	
	RF tests supported by a wide range of probes and calibration tools, such as calibration substrates and WinCal XE™ calibration software	
Ease of use	Low cost-of-ownership, fast return on investment	
	Upgradable for your future requirements	



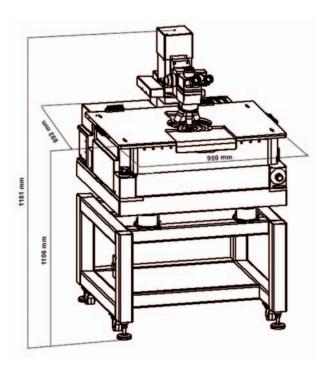
Chuck Stage

Chuck Stage	
Travel range in X and Y	300 mm x 300 mm
Resolution	0.5 µm
Repeatability	±1µm
Accuracy	± 2 µm
Planarity	± 15 μm
Maximum speed	50 mm / sec
Z Movement	
Travel range	10 mm
Resolution	0.25 μm
Repeatability	±1µm
Theta Movement	
Travel	± 5°
Resolution	0.0001°
Programmable Microscope Movement (Recomm	nended)
Travel range	50 mm x 50 mm
Resolution	0.25 μm
Repeatability	± 1.0 µm
Accuracy	± 2.5 µm
Access lift	130 mm
Manual Platen Movement	
Drive type	Handwheel
Contact / separation stroke	0.4 mm
Travel	35 mm
Remote Interfaces	
PC	RS232, IEEE488, LAN, TTL, GPIB
Electronics	IEEE488, TTL, GPIB
Utilities	
Power	115 / 230 V, 50 / 60 Hz, 600 W (maximum 1500 VA)
Vacuum	Less than 200 mbar abs.
Compressed air	6 to 10 bar
*Data design and specification depend on individual r	process conditions and can vary according to equipment configurations

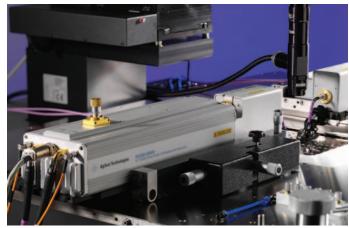
^{*}Data, design and specification depend on individual process conditions and can vary according to equipment configurations. Not all specifications may be valid simultaneously.

Weight 825 kg

Dimensions



APPLICATIONS



Broadband 110 GHz setup for mm-wave IC measurements.



PA300 with Expert Control Panel.

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Data subject to change without notice

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