



**Wentworth  
Laboratories**

[www.wentworthlabs.com](http://www.wentworthlabs.com)



**AUTOMATIC PROBER**

**A200D**

**FULLY AUTOMATIC  
DOUBLE SIDED  
PROBE STATION**



Advanced automation for high volume double sided probing applications requiring dual sided probing and special handling, such as IGBT, MOSFET & DIODES.

#### **PEGASUS™ A200D FEATURES**

- ✓ High throughput cassette to cassette automation.
- ✓ Automatic wafer handling, pattern recognition and wafer probing.
- ✓ Double Sided Probing
- ✓ Thin Wafer Handling.
- ✓ Customizable product enhancing hardware and software options.
- ✓ Compatible with wide range of industry testers.
- ✓ Product enhancing accessories.
- ✓ Robust mechanical design.

*Leader In ProbeAbility*

# MEETING YOUR PROBING CHALLENGES

## VERSATILE AND COST-EFFECTIVE PROBING

The Pegasus™ A200D series offers simultaneous, double-sided probing of up to 8" wafers in a compact and easy to use fully automatic probing platform.

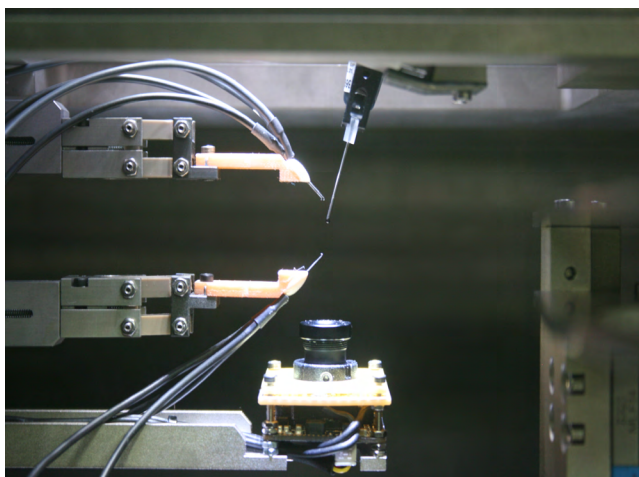
Using proprietary wafer ring clamping chucks the Pegasus™ A200D has a capacity of load from two cassettes, each containing 25 wafers.

The Pegasus™ A200D features highly advanced upper and lower probe arm callipers which can be controlled to simultaneously contact the top and bottom side of the wafer using multiple needle probe cards.

The Pegasus™ A200D Series probers deliver menu-driven, push button control via proprietary LabMaster™ control and monitoring software.

An extensive range of control and monitoring parameters enable users to operate Pegasus™ A200D Series probers at peak performance, including: real-time monitoring and test setup; yield analysis of both the wafer and batch under test; premium mapping capability; image analysis, and a host of other advanced features.

Ideal for high voltage applications in excess of 5 kV where backside contact improves test analysis methods.



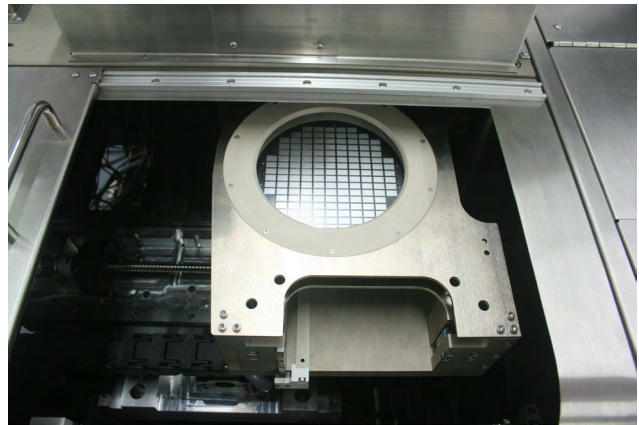
*Pegasus™ A200D Upper & Lower Probe Arm Callipers.*



**FEATURING HIGHLY ADVANCED UPPER AND LOWER PROBE ARM CALLIPERS WHICH CAN BE CONTROLLED TO SIMULTANEOUSLY CONTACT THE TOP AND BOTTOM SIDE OF THE WAFER USING MULTIPLE NEEDLES.**

Articulated parallelogram motion of the probe tips ensures that the probes accommodate any deviation in wafer flatness.

Kelvin contacts can be used for source and drain to accurately measure resistances and remove lead voltage drop.



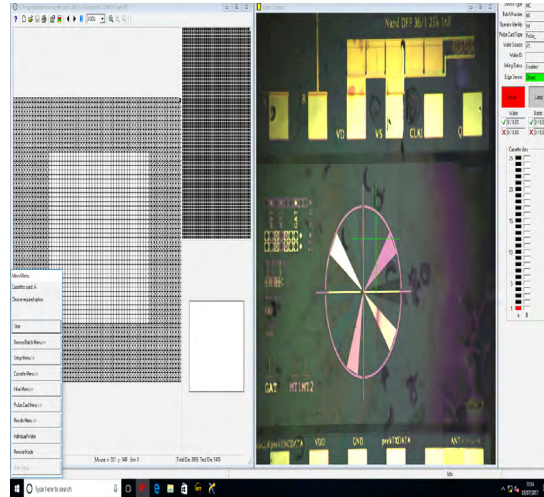
*Pegasus™ A200D Stage & Robotic Handler*



## SOFTWARE

Real-time monitoring and yield analysis of both the wafer and batch under test, offering premium mapping capability and image analysis - all provided via Menu-driven, push button control.

PROBER	
XY STAGE	
Type	High precision re-circulating ball screws
Stage Travel	210 mm x 210 mm (8.3" X 8.3")
Resolution	1.25 $\mu\text{m}$
Accuracy	$\pm 7 \mu\text{m}$ over 200mm
Repeatability	$\pm 4 \mu\text{m}$
XY Speed	Up to 100 mm/s
Automatic Alignment Repeatability	$\pm 5 \mu\text{m}$



WAFER HANDLER	
ROBOT	
Speed	1270 mm/s (R), 254 mm/s (Z), 800 °/s ( $\theta$ )
Positional Repeatability	12.7 $\mu\text{m}$ (Z), 38.1 $\mu\text{m}$ (R)
Flat Orientation	Selectable
Pre-Alignment Accuracy	$\pm 63.5 \mu\text{m} \pm 0.125^\circ$
Repeatability	$\pm 4 \mu\text{m}$
XY Speed	Up to 100 mm/s

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