

# Pegasus™ S200A

## Fully Automatic 200mm Prober



### High Volume, Special Handling Applications

Wentworth Pegasus S200A automatic wafer prober for full, partial and diced wafers merges powerful automation with advanced LabMaster™ control software for enhanced productivity. Ideal for high volume wafer probing, special handling applications such as GaAs, LEDs, saw frames and ceramics, Pegasus S200A's advanced robotics maximize throughput of 50mm (2-inch) to 200mm (8-inch) wafers by selecting and pre-aligning a second wafer as the first wafer is processed.

### Powerful System Software with Push-Button Ease

Pegasus S200A's user-friendly LabMaster software enables sophisticated probing process customization and optimization, including real-time yield analysis of both the wafer and lot under test. LabMaster facilitates data collection, monitoring and analysis, with networking compatibility via TTL, GPIB, IEEE 488, GEM and SECS II protocol.

Pegasus S200A offers numerous automation features, such as probe-to-pad alignment, optical character recognition, bar code recognition and probe mark inspection.

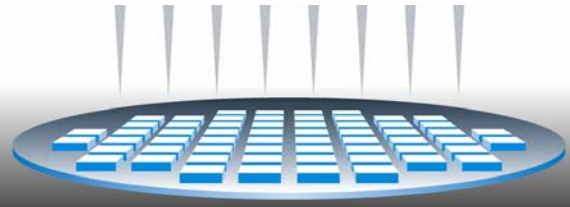
Pegasus S200A integrates with all major ATE test platforms, and offers high-speed probing for single-cassette applications utilizing up to 25 wafers.

### Performance Features

- Pattern recognition system providing automatic wafer alignment
- Supports Optical Character Recognition (OCR) and Bar Code Recognition (BCR)
- Wafer Class Sample Probing
- Ink Dot Inspection Capability
- Probe Mark Inspection capability
- GEM compliant SECS-II interface
- Can be configured as a single or double sided prober
- Full range of handling capabilities for a variety of materials
- Powerful, user-friendly LabMaster control software



Pegasus S200A seamlessly integrates advanced robotics with powerful software for real-time process control.



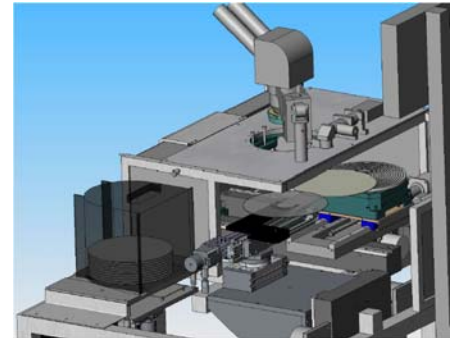
## Technical Specifications: Pegasus™ S200A Fully Automatic 200mm Prober

### XY Stage

Type:	High precision recirculating ball lead screws
Stage Travel:	210mm x 210mm (8.3" x 8.3")
Resolution:	1.25µm
Indexable Range:	10µm to 210mm (0.0004" to 8.0")
Accuracy:	Better or Less than 7.0µm over 200mm
Repeatability:	± 4µm

### Z Stage

Type:	Stepper motor drive – linear bearings
Total Travel:	11.5mm (0.45") max
Fine Lift:	User programmable within total travel
Overtravel (OT):	User programmable within total travel
OT Indexable Range:	User programmable within total travel
Search Window:	User programmable within total travel
Repeatability:	<1.0µm (0.00004")



Pegasus S200A's advanced robotics enable swift and precise wafer handling of 50mm (2-inch) to 200mm (8-inch) wafers

### Wafer Handler

Type:	High precision recirculating ball lead screw and pneumatic rotary and linear actuators
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### Automatic Alignment (PR)

Repeatability:	± 5µm
Alignment Time:	<4.0 sec

### Physical Specifications

Width:	1094mm (43.1")
Depth*:	870mm (34.25")
Height**:	1075mm (42.3")
Weight:	160 kg

\* includes connectors

\*\* excludes monitor mount and optics height

### Services

Vacuum:	0.5cfm at 20" Hg(min)
Power:	220/240VAC 50Hz and 100/115VAC 60Hz auto selection
Compressed Air:	80psi at 10 l/min

Wentworth Laboratories, Inc. offers vertical probe card solutions for both memory and logic applications, advanced cantilever probe cards, complete custom probe card design, and a full complement of probers for applications up to 300 mm. For more about Wentworth's full turnkey solutions, please visit us on the web at <http://www.wentworthlabs.com>.

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