

## Pegasus™ 300S-FA Semi-Automatic 300MM Prober



The Pegasus 300S-FA is a sleek and ergonomically designed prober for 300mm failure analysis applications. Derived from Wentworth's exclusive Pegasus Series semi-automatic probe solutions, the Pegasus 300S-FA operates as a stand-alone unit or utilizing Wentworth's powerful LabMaster™ GUI. Pegasus 300S-FA offers a precision stage for fine resolution and repeatable accuracy along with many field upgradeable options. Pegasus 300S-FA's streamlined design offers ultimate flexibility to purchase required options as needed, thus controlling system costs, while retaining the ability to upgrade features.

### Performance Benefits:

*High Level Accuracy* - Advanced controller software addresses intrinsic stage errors

*Easy-to-Use* - Simple push-button control and menu-driven operation

*Versatile* - Accommodates full and partial 50mm (2 in) to 300mm (12 in) wafers

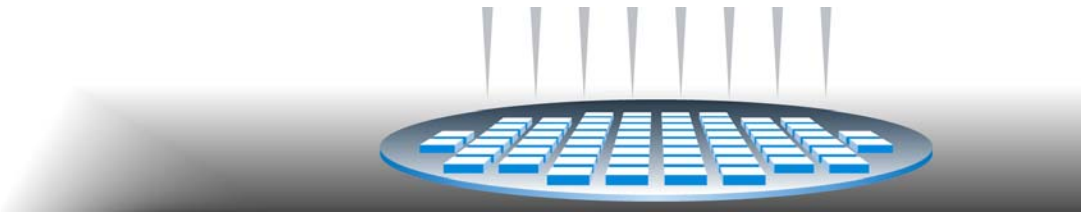
*Compatible* - Interface compatibility with most test environments

*Robust* - Reliable heavy-duty performance

*Easy Maintenance* - System diagnostics for easy and quick maintenance and repair

### Performance Features:

- "Real Time" operating system (OS9), for easy tester integration
- Compatible with industry-standard thermal chucks
- Easy integration with high-end optics, laser systems, CCD cameras and Wentworth LabMaster software
- Two-point wafer alignment
- TTL interface, RS 232, GPIB/IEEE
- Remote integrated keyboard enhanced with features: inking alarms, pass/fail data retention
- Sixteen additional axes for auxiliary control of probing accessories
- Support for rectangular 4.5" - 6.0" probe cards



# Technical Specifications: Pegasus™ 300S-FA

## Probe Station

XY Resolution	± 0.1µm
XY Accuracy	± 3 µm over 300mm
XY Repeatability	± 1.5 µm
Z Resolution	0.1 µm
Z Repeatability	< ± 1 µm
Close Loop	Option to be developed
Chuck Planarity	15 µm
Platen Control	Motorized
Platen Travel	55mm
Low Level Capability	better than 50 fA with Guardmaster™
Assisted Wafer Loading	Manual

## PMM

XY Resolution	0.1 µm
XY Accuracy	± 1.5 µm
XY Repeatability	± 0.5 µm
XY Travel	100mm
Z Lift Travel	100mm
Z Lift Method	Motor

## CAP

XYZ Accuracy	± 1 µm
XYZ Repeatability	± 0,5 µm
XYZ Resolution	0.01 µm
XYZ Travel	30mm

## Physical Specifications

### 300S-FA Prober

### Controller Unit

Width:	828mm (32.6")	450mm (17.7")
Depth (includes connectors):	810mm (31.8")	480mm (19.0")
Height (excludes optics):	366mm (14.4")	180mm ( 7.0")
Weight:	100 kg (220lb) approx	13 kg (28.5lb)

## Vacuum Requirement

0.5 cfm at 20" Hg (min) from external pump

## Power

220/240VAC 50Hz and 100/115V 60Hz, auto select, 1000VA

All specifications subject to change without notice. MAP-001-09-FA Rev B 10.03.05  
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### Wentworth Laboratories, Inc.

500 Federal Road  
Brookfield, CT 06804  
USA

Tel: 203-775-9311  
Fax: 203-775-4398

### Wentworth Laboratories, Ltd.

1 Gosforth Close  
Sandy, Bedfordshire  
SG19 1RB  
England

Tel: 44 (0) 1767 681 221  
Fax: 44 (0) 1767 691 951

### Wentworth Japan Co., Ltd.

1-33-4 Nakagawa Chuo,  
Tsuzuki-ku  
Yokohama, 224-0003  
Japan

Tel: 81-45-912-8520  
Fax: 81-45-912-8524