



PG2000 Semi-Automatic Prober



The Pegasus PG2000 is specifically designed for production probing applications involving semiconductors, LEDs and MEMS devices. Especially, PG2000 ideally meets the LED industry requirement by way of its area-scanning technology to probe LED die mounted onto blue tape/ ring carries.

- Fast Simultaneous XY motion for increased throughput
- Accurate Advanced controller software addresses intrinsic stage errors
- Easy-to-Use Simple push-button control and menu-driven operation
- Versatile Ideal for production probing, especially LED and MEMS, and characterization
- 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

- Tiny structure with solid frame and 4 wheels for easy hauling
- Dark-room lid to protect from the interference of environmental lights
- Friendly Window system operation software with Chinese/English display and real-time Mapping map
- CCD scanning system enables supper fast location and offers coordinate's data
- One-button-to-end operation function for LED probing
- Integrated software with WEIMIN tester simplifies the operation procedure of LED probing





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Technical Specifications

XY Stage

 Type: High precision recirculation ball lead screws

Stage Travel: 210mm x 210mm (8.3" x 8.3")

Resolution: 0.5 µm
 Accuracy: ≤ ±7 µm

Repeatability: ±4 μm (0.0001")

Z Stage

 Type: Stepper motor drive linear bearings

Stage Travel:11.5mm (0.45") max

Resolution: 1 μm

Accuracy: ≤ ±2 µm

Repeatability: ±4 μm (0.0001")

Loading: 20kg maxRevolution Theta

Angle: ± 10°

Resolution: 0.001°

Chuck Plate

Material:
 High strength alumina alloy
 (gold or nickel coating)

Flatness: ≤ 15 µm

Probe Holder

Manipulation:

X,Y,Z 3 axis adjustable

Resolution: 10mil (1/100") per turn

Edge Sensor

Type: Spring force contact

Life of Needle: > 1,000,000 contact

Microscope

Eyepieces: 20X

Object lens: 1X ~ 4.5X

Magnification: 20X ~ 90X

CCD Camera

Telecentric Lens:0.8X / 1024 x 768 pixels

Scanning area:8mil x 8mil ~ 80mil x 80mil

Scanning time:

15k / 2minutes (2" wafer)

Physical Specifications

Size:

(signal tower and monitor excluded) 84 (D) x 73 (W) x 142 (H)

Weight: < 200kg

Vacuum Pump:

0.5 cfm at 20"Hg (min)

Power Consumption:

• 100 ~ 240VAC, 47 ~ 63Hz, < 10A

Option:

• Edge sensor: 1 ~ 4

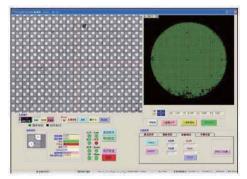
Inker: 1 ~ 2

CCD telecentric Lens 0.5X

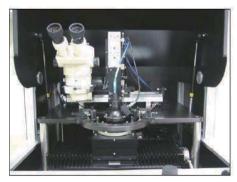
Spectral Lam Measurement

Microscope with verity magnification

Movement Time (ms)		Chuck Lift (um)		
		150	250	350
Index Step (um)	203.2	58.2	80	102
	304.8	63.2	85	107
	508	71	97	115
	1016	86	108	130



Friendly Window system operation software with Chinese/ English display and real-time Mapping map



Edge Sensor

