

QUATEK

PG3000 Semi-Automatic Prober



The Pegasus PG3000 is specifically designed for production probing applications involving semiconductors, LEDs and MEMS devices. Especially, PG3000 ideally meets the LED industry requirement by way of its area-scanning technology to probe LED die mounted onto blue tape/ ring carries.

Performance Features

- 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
- 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:
 300mm x 300mm
- Resolution: 0.5 µm
- Accuracy: ≤ ±7 µm
- Repeatability: ±4 µm
 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: 10kg max
 Revolution 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) 1083(D) x 960(W) x 1662(H)mm

• Weight: < 480kg

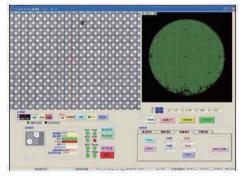
Vacuum Pump:

• 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

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