

# Flying Probe Tester – G90 Series



## VARIANTS

|             |                                 |
|-------------|---------------------------------|
| <b>G90</b>  | 31.9" x 31.9" / 812mm x 812mm   |
| <b>G90L</b> | 39.4" x 39.4" / 1000mm x 1000mm |

- **High accuracy with glass scale system** across entire test area
- **Movable motor-driven upper and lower stretch Bar** – For easy loading of all board sizes
- **High-speed lead screw driven motion system** - increases speed and repeatability
- Utilizing **FPX software** with all its **features and benefits**
- Front and rear **fully automatic camera alignment system**
- **Motor-driven clamping system** that offers superior clamping
- **Test extra large boards** - up to 1000mm
- **Multi image testing** - allows to test multiple jobs on one panel, increasing the output capacity
- Parameterizable **Micro Short Detection**
- Optional 4-wire Kelvin option for **accurate low resistance measurements**
- Comes with a **Plug and Play link** with the **Gardien AC8**
- Fixtureless Testers **developed, designed and assembled in Germany, CE Certified**

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# Flying Probe Tester – G90 Series

## TECHNICAL INFORMATION

|                                  |   |                          |
|----------------------------------|---|--------------------------|
| No. of test probes               | 4 ( 2 front / 2 back)<br>High Speed Z-Axis with soft touch<br>(requires soft touch probes)                      |                          |
| Test probe pressure              | 2-10 g  |                          |
| No. of CCD-cameras               | 2 (1 front/1 back)- Fully automatic<br>camera alignment for easy and fast<br>compensation of board registration |                          |
| <b>G90 Max test area (x/y)</b>   | <b>31.9" x 31.9"</b>  | <b>812mm x 812mm</b>     |
| <b>G90 L Max test area (x/y)</b> | <b>39.4" x 39.4"</b>  | <b>1,000mm x 1,000mm</b> |
| Min board size (x/y)             | 2" x 2"   | 50mm x 50mm              |
| Max board thickness              | 320 mil   | 8mm                      |
| Min board thickness (standard)   | 4mil  | 0,1mm                    |
| Repeatable accuracy +/-          | 0.2mil  | 5µm                      |
| Resolution (x/y) +/-             | 0.2mil  | 5µm                      |
| Smallest testable pad size       | 2mil  | 50µm                     |
| Smallest testable distance/pitch | 2mil  | 50µm                     |
| Board Loading option             | Stretch/Quick Frame   |                          |

## OPTIONS

### Hardware

- > Multi Board Loading (Quick frame)
- > Induction LCR Measurement (Micro Henry Measurement)
- > 4Wire Kelvin Measurement (Low Ohm measurement)
- > Hi-Pot Testing (1000V to 7000V)

### Features

- > Embedded resistor test
- > Embedded capacitor test
- > Micro Short Detection
- > High Voltage Testing (up to 1000V)
- > Hi-Pot Testing (up to 1000V)

### Software

- > Data preparation software (Certified Ucamco Smartseat)
- > Verification software (Certified Ucamco FaultStation)
- > Test Floor Integration (TFI) capability

## DIMENSIONS

|                     |          |                                   |
|---------------------|----------|-----------------------------------|
| Width               | 105.5"   | 2,680mm                           |
| Depth               | 39"      | 992mm                             |
| Height              | 77"      | 1,950mm<br>(without status light) |
|                     | 89"      | 2,250mm<br>(with status light)    |
| <b>G90 Weight</b>   | 3,860lbs | 1,750kg                           |
| <b>G90 L Weight</b> | 5,732lbs | 2,600kg                           |

## ENVIRONMENTAL CONDITIONS

|              |                                   |          |
|--------------|-----------------------------------|----------|
| Air humidity | 45-65% not condensing             |          |
| Room Temp.   | 64° -90°F                         | 18°-32°C |
| Power supply | 230V, 50/60Hz, 1000W Single Phase |          |

## ELECTRONICS

|                 |  |  |
|-----------------|--|--|
| Test voltage    | 20V up to 1000V (adjustable)   |  |
| Test current    | 5mA up to 500mA (adjustable)   |  |
| Continuity test | 1 Ω up to 5000 Ω (dependent on the current, smaller current = larger resistance) |  |
| Isolation test  | 1 M Ω up to 500 M Ω  |  |

## INCLUDED MISCELLANEOUS

|                        |                          |
|------------------------|--------------------------|
| Industrial PC 19"      | Barcode Reader (2D & 3D) |
| Thermal Printer (80mm) | Monitor (Wide Screen)    |
| Calibration Panel      |                          |

## SOFTWARE

|                        |   |
|------------------------|---|
| Operating Software     | Windows 10 (English Version)  |
| User Interface         | Gardien <b>FPX</b> with multi language support (Chinese, Japanese, English, German)                             |
| Data Input formats     | MNF1, MNF2, IPC-D-356A, EMMA  |
| Test Floor Integration | IT based communication and data exchange between Universal Grid, Flying Probe and Verification Software/Station |

For more information, contact us: [info@gardien.com](mailto:info@gardien.com), Or visit our website: [www.gardien.com](http://www.gardien.com)

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