

# PB1500

probe card analyzer



## overview

The Probilt bench-top line of analyzers is a totally new concept in probe card test and repair. These systems are designed for stand alone use and as a companion tool for the higher end probe card analyzers. The probe card is tested and repaired in a "tips up" position which eliminates the time to flip from test to repair position. They may be used to perform a complete test or import test data from a larger analyzer. Repair and retest of individual probes is easily performed. Specialized software routines quickly identify the failing probe and place the microscope crosshair at the correct position for quick and easy alignment. After repair, each individual probe may be retested for alignment and planarity.

The PB1500 is a low cost probe card analyzer system. It has the capability to perform all the tests done on the larger PB3600/6500 probe card analyzers, but at a lower cost for low pincount cards. A maximum of 1,280 channels may be configured in the PB1500 MUX system. The Precision Measurement Unit (PMU) has the same accuracy, repeatability and range as the larger analyzers. The repair process consists of selecting a failing probe, which moves it under the binocular microscope and positions a crosshair over the correct position for that probe. Thus the probe is not only easily identified, the operator has a true reference (the crosshair) for the correct alignment position. The repair process time is cut to 1/2 or 1/3 that of standard analyzers or alignment stations.

The PB1500 is a bench-top instrument and comes complete with all required hardware. ITC provides low cost, standard motherboards for most probe card types. A sturdy bench provides the optimum in convenience and ergonomics.

## features

- Fast, simple probe card repair
  - Crosshair shows correct probe position
  - Tips up configuration for easy repair
  - Excellent ergonomics
  - Fast retest without flip
  - Leica MZ80 binocular microscope
- Accurate, repeatable stage
  - Closed loop with 0.1u encoders
  - 6.4" x 9" stage movement
  - Up to 3" x 3" arrays
  - 100 lb Force Z stage, 2.0" stroke
- Simple, economical motherboards
  - Up to 1,280 channels
  - Fast change motherboards/probe cards
  - Up to 15" diameter probe cards
- Powerful Probilt™ software
  - Same software as PB3600/6500
  - Network with PB3600/6500
- Works with all probe card technologies
  - Test and repair any technology
  - Excellent for tight pitch shelf cards

## tests performed

- Alignment
- Planarity
- Contact Resistance
- Leakage
- Wire Check
- Capacitor values and leakage
- Resistor values
- Gram Force (optional)

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## motherboards

- Lightweight for easy installation
- Precision tooled for accurate wafer probe correlation
- Compatible with up to 15" diameter probe cards



## available option

- Gram Force – Allows accurate measurement of gram force for each pin at the specified overdrive



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