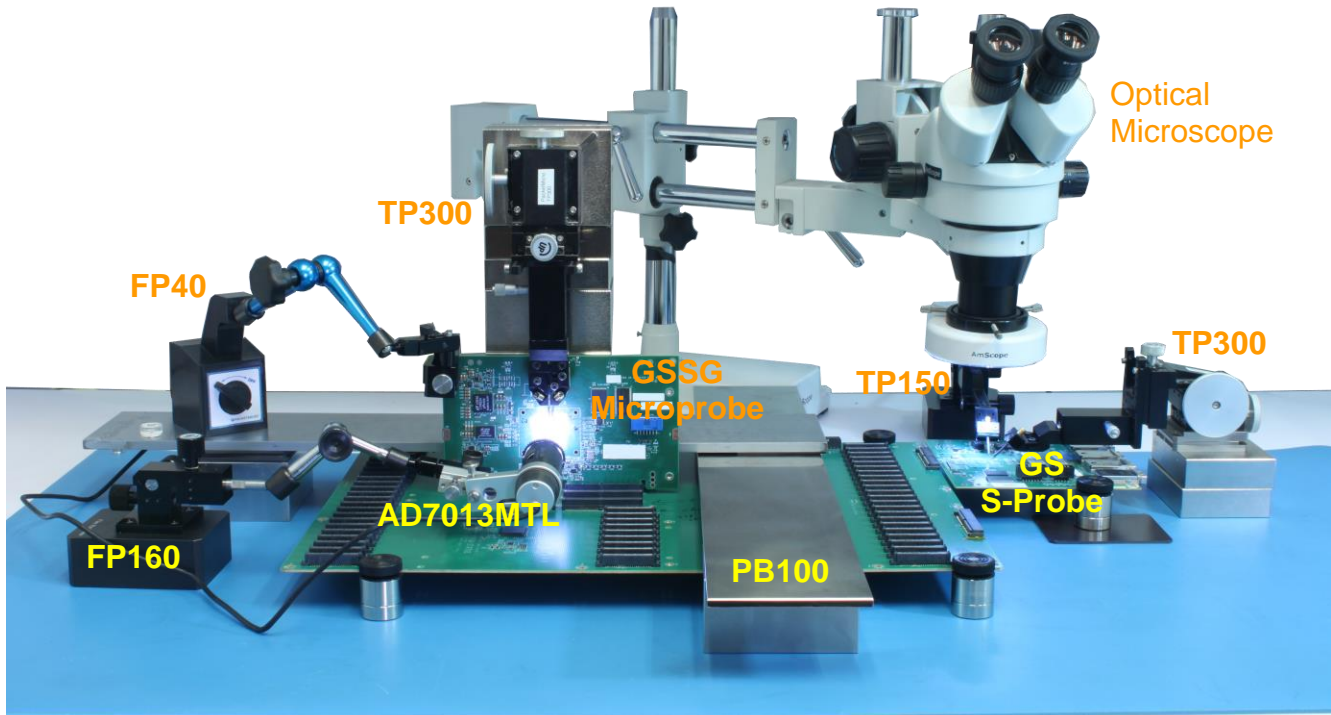


# Flex Probe Station

Vertical and Horizontal Probing in Minutes



Flex Probe Station allows simultaneous vertical and horizontal probing

## Key benefits:

- **Completeness:** Single test platform for RF, SI, and probing with microprobes and PacketMicro's S-Probes and D-Probes
- **Flexibility:** Unlimited re-configurability for PCBs in various sizes and orientations
- **Ease of Use:** Quick setup and easy maneuverability with stackable components
- **Low Cost:** Fractional cost of competing solutions

Flex Probe Station is the most flexible benchtop station for probing with microprobes and ruggedized RF probes. It comprises TP300, FP160, FP40 and other positioners, PB100 Bridges, PCB holders, and microscopes. A user can easily configure the Flex Probe Station for probing PCB's in both vertical and horizontal orientations in minutes.

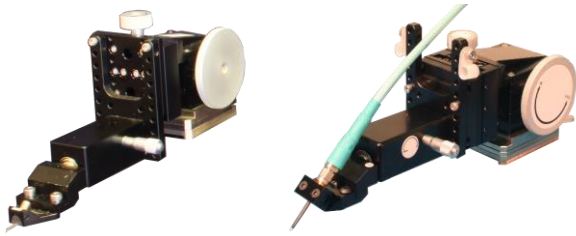
The above setup demonstrates the versatility of the Flex Probe Station that is used to probe a pair of differential traces starting from the BGA pads on a daughterboard in the vertical orientation; going through a large motherboard, a connector; and then connecting to the BGA pads on another daughterboard in horizontal orientation.

A 5 megapixel Dino-Lite AD7013MTL microscope is mounted on a FP160 for the vertical-side probing, and an optical microscope is used for the horizontal-side probing. The FP160 makes focusing the microscope easy in all XYZ directions.

In the event that you need to probe large motherboard with daughterboard with challenging configuration, Flex Probe Station can save you time and money because there is no need to make or modify the custom probe station, which can be costly and time-consuming.

## Products Used in Flex Probe Station

### Precision Positioner TP300



TP300 is designed with the most precise components and built with highest quality; at the same time, it offers the most competitive price in the industry. The extra large 2" adjustment screw for y-axis ensures ease of control of microprobe and ruggedized RF probes.

#### TP300 Specifications

**XYZ-axis travel:** 16 mm with 250  $\mu\text{m}/\text{turn}$  (100 TPI) and extra-large 2" y control screw  
 **$\Theta$  control:**  $\pm 10^\circ$  with 2.5°/turn  
**Length:** 185 mm/7.3 in  
**Width:** 68 mm/2.7 in  
**Height:** 74 mm/2.9 in  
**Weight:** 1165 grams/2 lb 9 oz  
**Base:** Lockable magnet  
**Probes Supported:** Microprobes and S-Probes and D-Probes from PacketMicro (with adapter)

### Flexible Positioner FP160

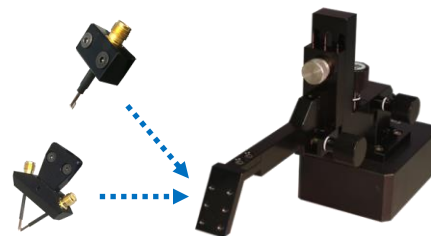


An innovative probe positioner with articulated arm and an independent precision XYZ stage for quick, accurate and stable hands-free high-speed probing.

#### FP160 Specifications

**XYZ-axis travel:** 16 mm with 500  $\mu\text{m}/\text{turn}$   
 **$\Theta$  control:**  $\pm 10^\circ$  with 2.5°/turn  
**Length:** 266 mm/10.5 in  
**Width:** 76 mm/3.0 in  
**Height:** 155 mm/6.1 in  
**Weight:** 2702 grams/5 lb 15 oz  
**Base:** Steel with magnets and rubber

### Precision Positioner TP150



TP150 is designed for PacketMicro's S-Probes and D-Probes in horizontal probing orientation. It covers boards in a wide range of sizes and heights with the most competitive price in the industry.

#### TP150 Specifications

**XYZ-axis travel:** 16 mm with 500  $\mu\text{m}/\text{turn}$   
 **$\Theta$  control:**  $\pm 10^\circ$  with 2.5°/turn  
**Length:** 266 mm/10.5 in  
**Width:** 76 mm/3.0 in  
**Height:** 155 mm/6.1 in  
**Weight:** 2702 grams/5 lb 15 oz  
**Base:** Steel with magnets and rubber  
**Height coarse adjustment:** 4.8 mm/step

### Probe Bridge PB100



The stackable PB100 can be placed over a large PCB, with positioners and probes on the long steel plate, supports accurate probing on any part of the PCB. (Weight: 29 lbs.)

### Dino-Lite Digital Microscopes

A digital microscope connects to a PC and displays the result on the PC monitor for easy viewing and accurate probing.

#### Long Working Distance Microscopes

**AD7013MTL:** 5 MP resolution, 10x~90x.  
**AM4113ZTL:** 1.3 MP, Polarizer, 10x~90x.  
**AM4115ZTL:** 1.3 MP, Polarizer, 10x~140x.  
**AM5116ZTL:** 1024x768 resolution, 10x~90x.  
 Connects to monitor directly.