Precision Positioner TP250

The versatile, high-precision positioner

Holds microprobes

Holds S/D-Probes
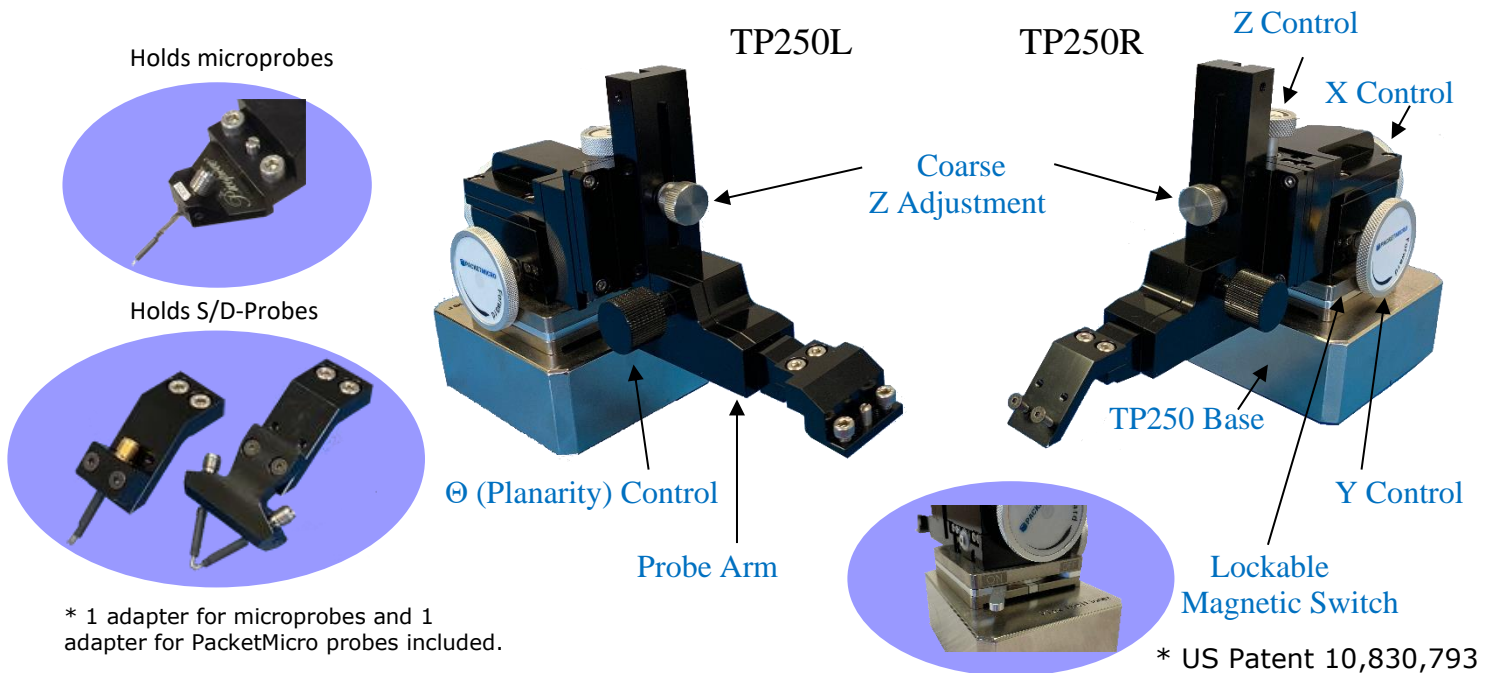
* 1 adapter for microprobes and 1 adapter for PacketMicro probes included.

TP250L   TP250R

Z Control

X Control

Coarse Z Adjustment

TP250 Base

Θ (Planarity) Control

Probe Arm

Y Control

Lockable Magnetic Switch

* US Patent 10,830,793

Precision Positioner TP250

TP250 probe positioner can be used in all PacketMicro Do-It-Yourself (DIY) horizontal and vertical probe stations. Its high-precision XYZ stage with magnetic lock at the base and long probe arm with θ control make it ideal for probing with microprobes and rugged PacketMicro probes in a wide range of RF and signal-integrity measurements.

TP250 has patented planarity (θ) control mechanism, which does not use the typical spring-loaded design, to avoid potential damage to the test probe mounted on its probe adapter. The extra-large control knobs for XY axes ensure smooth, fast movement of the microprobe and rugged RF probe.

Superior Usability

- Rugged, ergonomic design
- Easy, quick rearrangement of positioner with a lockable magnetic switch
- Coase probe arm height movement without tool
- High-quality material and precision design ensure accurate and repeatable measurements
- Adapters for holding typical microprobes and PacketMicro's rugged probes
- Universal adapter for holding large oscilloscope and RF probes
- Special 90° arms for different probing orientations
- Work with all PacketMicro horizontal and vertical probe fixtures

TP250 Specifications

XYZ-axis travel: 16 mm with 500 μm/turn (50 TPI) and extra-large x/y-axis control knobs
Height coarse adjustment: 5 mm/step (14 steps)
Resolution: 5μm
Θ (Planarity) control: ±10° with 2.5°/turn and 0.025° resolution
Length: 9 in/228 mm
Width: 3 in/76 mm
Height: 4.3 in/108 mm
Weight: 2.86 lb./1.30 kg

Part Number:

TP250Base: 4"x3"x1.5", 5 lb. (3.87 kg)
TP250R: Right-handed TP250
TP250RB: Right-handed TP250 with TP250Base
TP250L: Left-handed TP250
TP250LB: Left-handed TP250 with TP250Base
TP250-ARM-AL: Left-handed TP250 arm with 90-degree adapter head
TP250-ARM-AR: Right-handed TP250 arm with 90-degree adapter head
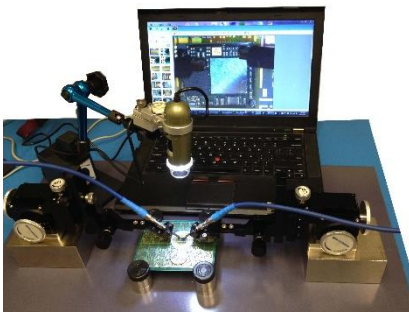
TP250-ARM-AL   TP250-ARM-AR
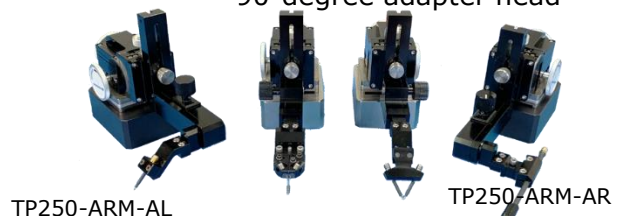
TP250 supports microprobes, S/D-Probes, DC probes with straight and angled arms

Other TP250 Configurations

TP250 Probe arm can be adjusted for different orientations and positions without using any tool.

TP250 for Benchtop RF Probing

Horizontal probing of RF module and circuit board

Constant shrinking size of circuit components makes soldering semi-rigid RF pigtail cables to test gigahertz circuits impractical. Our simple, easy-to-use probe station and probes are ideal for testing antennas, RF modules, and circuit boards.
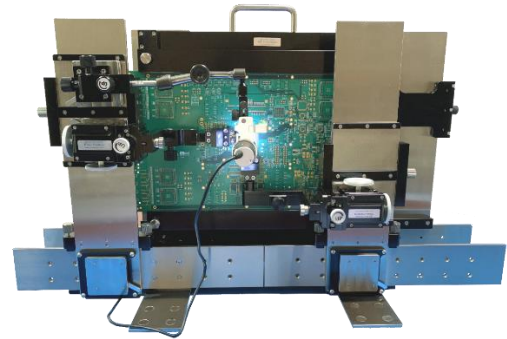
TP250 for Large PCB Probing
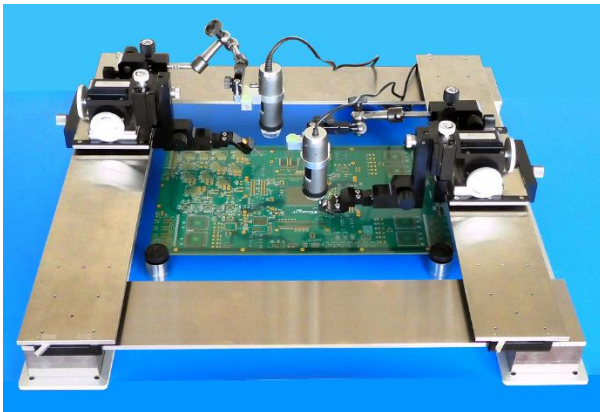
Large PCB Station (HPF24-T2-S2)

This compact, lightweight probe station can easily be set up in 10 mins for probing 18" PCBs.
- Size: 24" L x 24" W x 3.8" H
- Weight: 45 lb.
- PCB Size: 18" Length x unconstrained Width

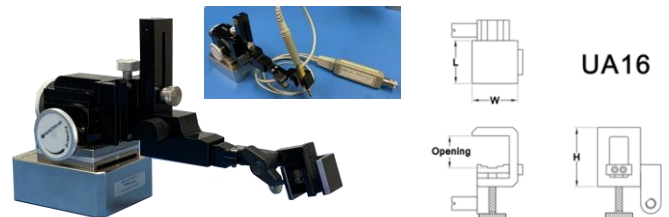# TP250 for 2-sided PCB Probing

2- Sided PCB Probe Station (VPF10-H4-V4-S4)

This innovative probe station makes 2-sided probing easy and is designed for laboratories with limited space.
- Size: 29" H x 32" W x 13" Depth
- Weight: 33.5 lb.
- PCB Size: 10" Height x unconstrained Width

Universal Adapter (UA16-TP250)

UA16

UA16 adapter can be mounted on TP250 for holding large oscilloscope and RF probes.
- Size: 25 mm L x 27 mm W x 35 mm H
- Opening: adjustable 4 – 16 mm

PacketMicro, headquartered in Silicon Valley, provides one-stop shopping for your needs in PCB probing and signal-integrity analysis. Its product offering includes a wide range of rugged RF probes up to 40 GHz, patented probe positioners, DIY bench-top probe stations, flexible phase-stable RF cables, digital microscopes, and AITT signal-integrity analysis tools.