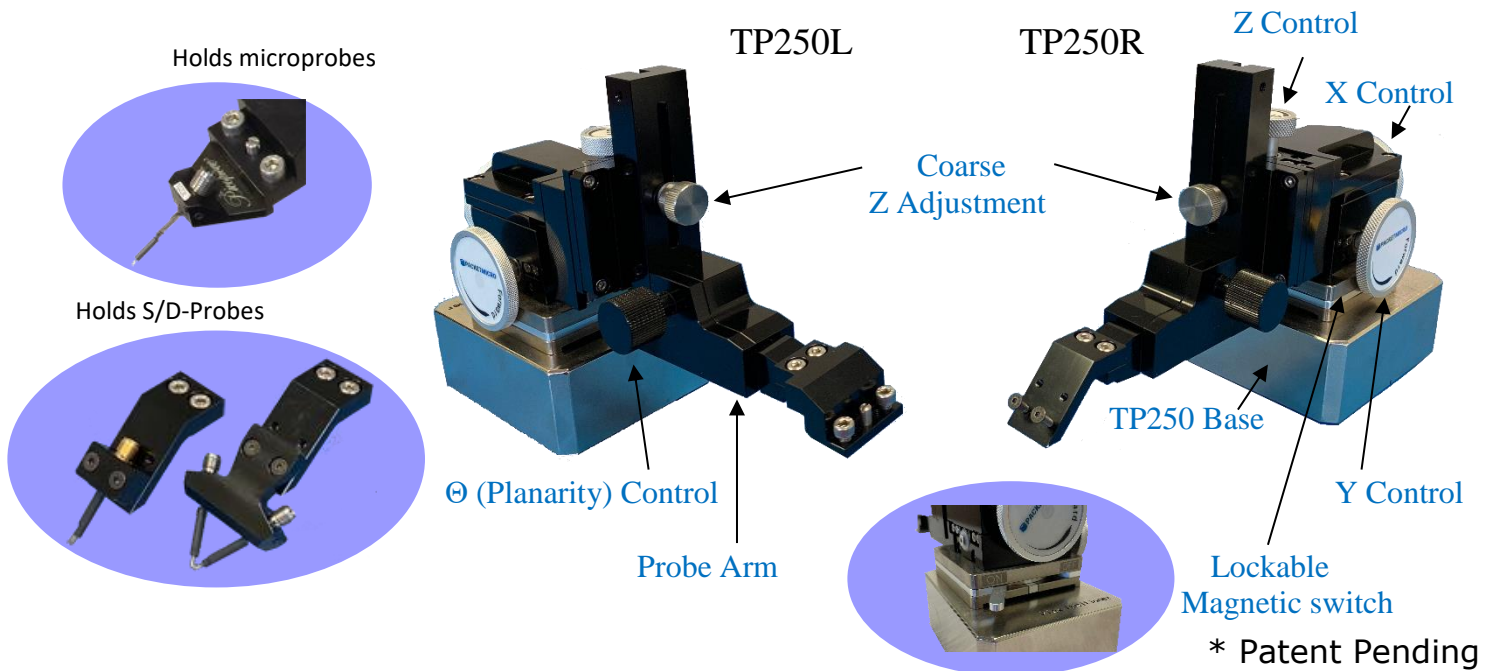


Precision Positioner TP250

The versatile, high-precision positioner



Precision Positioner TP250

The newest member of PacketMicro fixed-arm positioners family combines TP250's high-precision XYZ-stage and magnetic lock at the base, and TP150's long probe arm and θ control. It has high precision required for microwave and wafer probing and the versatility and ease of operation for probing on PCB with or without components.

TP250 is designed with precise components and built with the highest quality; at the same time, it offers the most competitive price in the industry. The extra-large adjustment screws for x/y-axes ensure ease of control of microprobe and rugged RF probes.

Superior Usability

- Rugged, ergonomic design allows easy hands-free probing.
- Flexible and ease of control allows probes to quickly reach test points of interest.
- Lockable magnetic switch allows easy and quick rearrangement of positioner
- Easy probe arm height movement without tool
- High-quality material and precision design ensure accurate and repeatable measurements.
- Holds microprobes and PacketMicro's rugged S-Probe and D-Probe with two different adapters
- Special probe arm with adapter holder turning 90° left or right

TP250 Specifications

- XYZ-axis travel:** 16 mm with 500 $\mu\text{m}/\text{turn}$ (50 TPI) and extra-large x/y-axis control screws
- Height coarse adjustment:** 5 mm/step (14 steps)
- Resolution:** 5 μm
- θ (Planarity) control:** $\pm 10^\circ$ with 2.5°/turn and 0.025° resolution
- Length:** 228 mm/9 in
- Width:** 68 mm/2.7 in
- Height:** 108 mm/4.3 in
- Weight:** 2.86 lb. (1.30 kg)
- TP250 Base:** 5 lb. (3.87 kg)

Part Number:

- TP250R:** Right-handed TP250
- TP250RB:** Right-handed TP250 with TP250 Base
- TP250L:** Left-handed TP250
- TP250LB:** Left-handed TP250 with TP250 Base
- TP250-ARM-AL:** Left-handed TP250 arm with 90-degree adapter head
- TP250-ARM-AR:** Right-handed TP250 arm with 90-degree adapter head



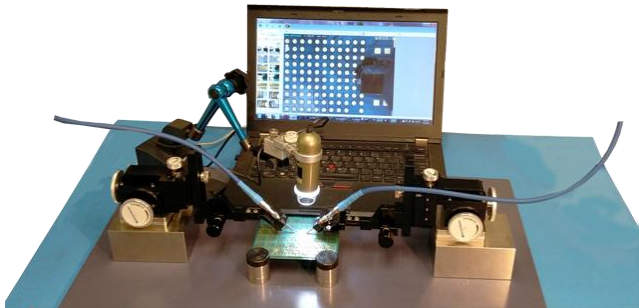
TP250 supports microprobes, S/D-Probes, DC probes with straight and angled arms

Other TP250 Configurations



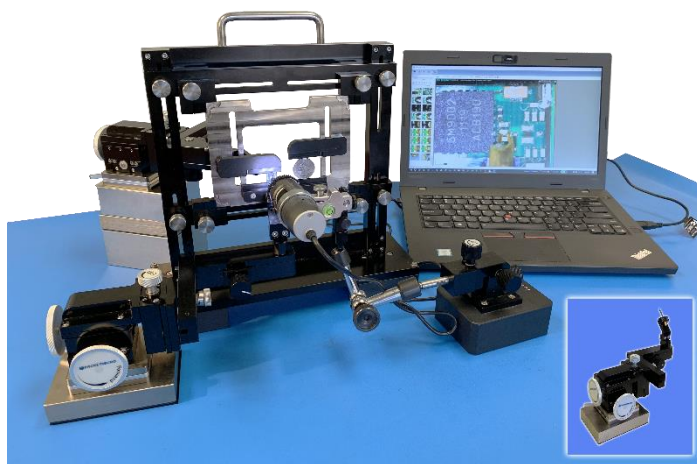
TP250 Probe arm can be reconfigured to reach very low and very high positions without any tool.

Benchtop Probing Kit



Horizontal probing of RF circuit board

Constant shrinking size of circuit components makes soldering semi-rigid RF cables to test gigahertz circuits impractical. Our probing kit is the most flexible benchtop station for probing antennas, RF modules, and test fixtures. The kit comprises the S-Probe, TCS70 calibration substrate, TP250 positioners, PCB holders, microscope and FP40 flex-arm positioner.



Vertical double-sided probing of RF module

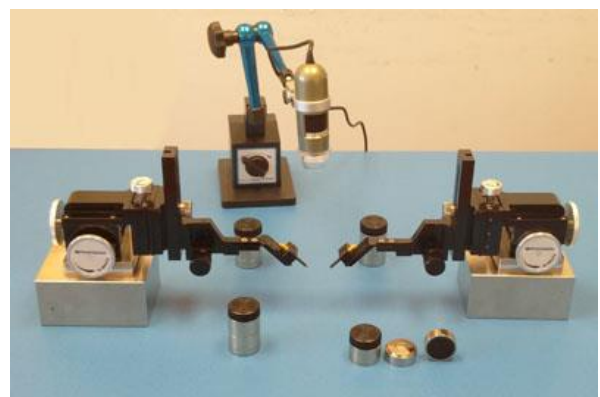
In this setup, a 90°-angled arm positions the probe from the lower side of the RF module. With three different arms, TP250 can be configured to meet almost all your probing requirements.

Features:

- **Applications:** antenna measurements, RF module testing, S-Parameter measurements of module test fixture
- **Ease of Use:** quick setup in minutes
- **High Bandwidth:** DC to 20 GHz
- **Ruggedness:** Strong S-Probes allowing direct probing on uneven solder bumps
- **Probe-tip Calibration:** accurate measurements without the need of soldering semi-rigid RF cables

RF Probing Kit:

- Precision probe positioner (TP250) x 2
- TP250 base (PB-BLK15) x 2
- Rugged S-Probe (SP-GR-xx15yy) x 2
- Calibration substrate (TCS50/TCS70) x 1
- PCB Holder (PH100) x 4
- Dino-Lite Microscope (AM4113ZTL) x 1
- Flex Positioner (FP40-HDM1) x 1
- Required Bench Size: 10" x 20"



PacketMicro, based in Silicon Valley, provides a wide range of gigahertz probes, probe positioners, bench-top probe stations, RF cables, and digital microscopes for RF and signal-integrity measurements. PacketMicro customers include many Fortune 100 companies.