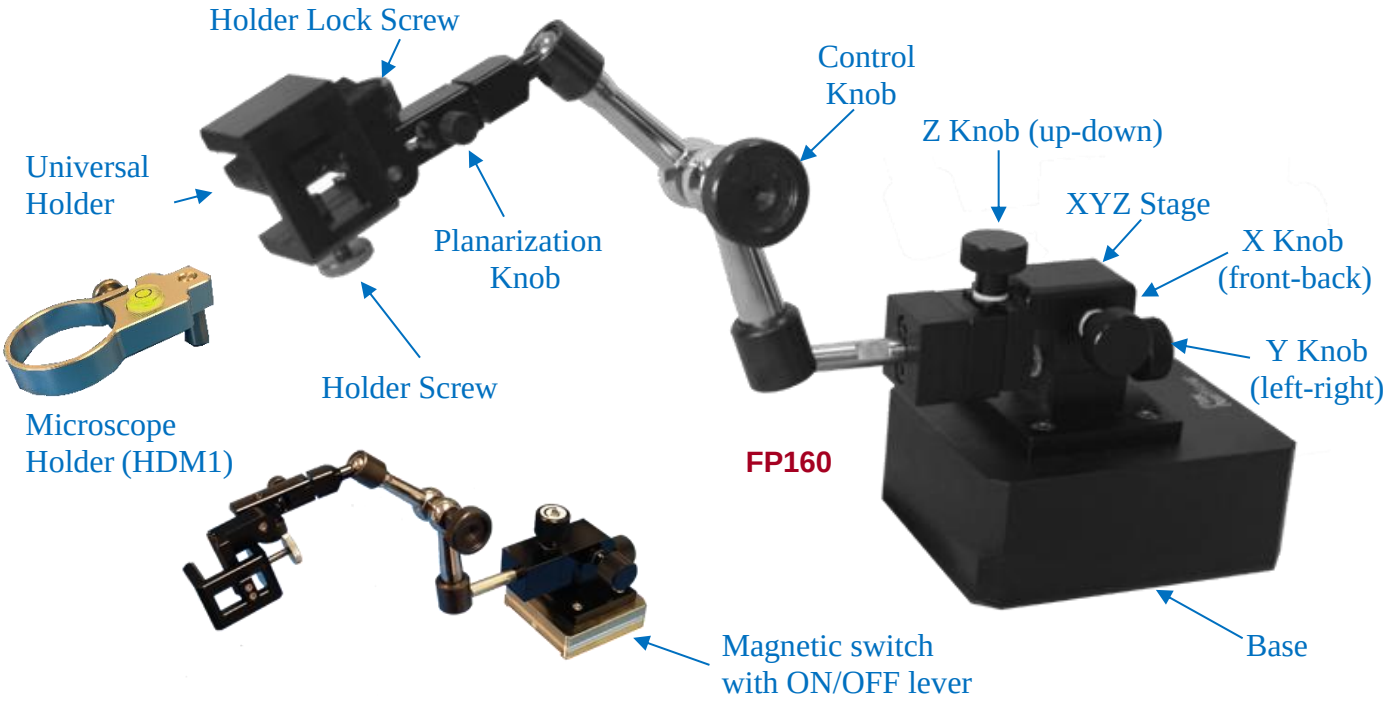
PACKETMICRO
Innovative Benchtop Probing Solutions

Flex Positioner FP160

The flexible, high-precision probe manipulator for everyday laboratory use



*US Patent 8,836,357

A revolutionary probe positioner for quick, steady, and accurate hands-free probing

- Easy-to-manipulate arm controlled by a single thumbscrew
- Independent XYZ stage for fine adjustments of probe position and contact force
- Versatile, sturdy probe holder with planarization control for quick, stable holding of test probes
- Flexible, long arm for vertical probing of a circuit board or backplane in a chassis
- Low-profile, light-weight FP160-MS has base with magnetic switch for tight space probing
- Suitable for lengthy, unmanned testing and detection of hard-to-find glitches

Flex Positioner FP160 for wide-range hands-free probing

A helping hand for engineers

Flex Positioner is an innovative probe positioner for quick and stable hands-free probing. Its unique combination of an articulated arm and an independent precision XYZ stage allow a user to quickly and accurately place the probe on the target. Using the articulated arm for coarse positioning first and then controlling the fine adjustments with the XYZ stage and probe tips planarization knob, one can make good test measurements with reliable probe contact.

Part Number:

FP160: Flex arm positioner with universal holder
FP160M: FP160 with additional microscope holder (HDM1)
FP160MS: FP160 with magnetic switch

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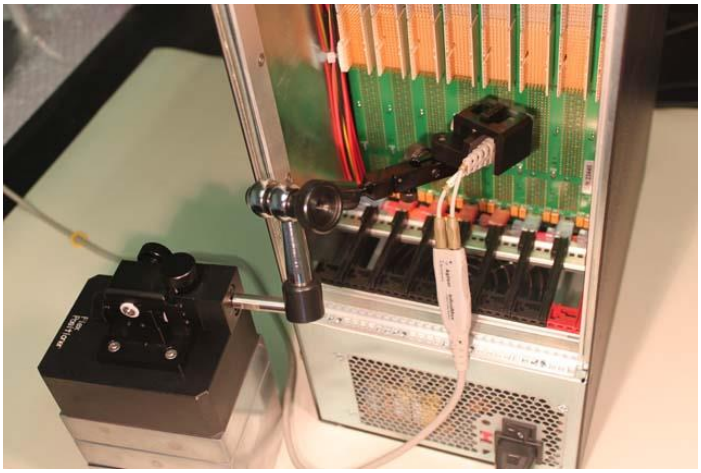
Vertical probing of hard-to-reach areas

Flex Positioner's long, articulated arm and rugged structure make it perfect for vertical probing of boards and backplane in a chassis. The arm, comprising 4 links and 3 joints, can be locked down with a single thumbscrew easily. The following figure shows the Flex Positioner is used for the challenging task of probing a vertical backplane in a chassis.



Flex Positioner for vertical probing of a backplane

Specifications (FP160/FP160MS)

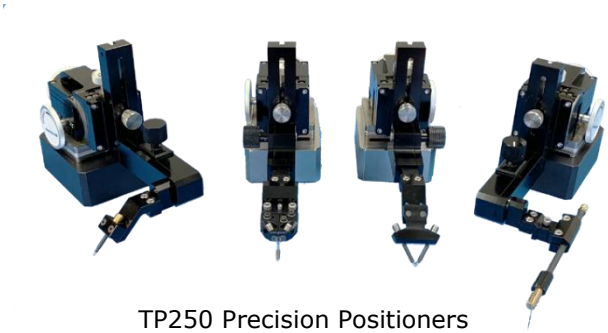
Articulated arm: 4 links and 3 joints controlled by a single thumbscrew
Arm Length: 220 mm/8.7 in
XYZ-axis travel: 12 mm with 500 µm/turn (50 TPI)
Planarization Θ control: ±7.5°
Width: 76 mm (3.0 in)/ 64 mm (2.5 in)
Height: 107 mm (4.3 in)/ 89 mm (3.5 in)
Base Size: 3"x4"x1.5"/ 2.5"x2.5"x0.7"
Weight: FP160: 6.14 lbs. (2.79 kg)
FP160M: 6.24 lbs. (2.83 kg)
FP160MS: 2.02 lbs. (0.92 kg)
Base: Steel with magnets/Magnetic switch

Flex Positioner's versatile and sturdy probe holder fits most active probes, passive probes, and differential browsers from equipment manufacturers, such as Agilent, LeCroy, and Tektronix.

Other Probe Positioners from PacketMicro

- Low-cost Flexible-Arm Positioners: FP80 (XYZ), FP40 (Z)
- TP250 Precision Positioner for microwave probes and all PacketMicro Probes

FP120, FP80, and FP40 Precision Positioner



TP250 Precision Positioners

FP80 Specifications

Articulated arm: 3 links and 3 joints controlled by a single thumb knob
Arm Length: 271 mm/10.7 in
XY-stage Adjustment: ± 8 mm
Base: Lockable magnetic switch
65 mm L x 60 mm H x 70 mm W
(2.5" L x 2.3" H x 2.8" W)
Weight: 1.6 kg/3.5 lbs.
Base Plate Size: 120 mm x 90 mm x 16 mm
(4.7" L x 3.5" H x 0.6" W)
Base Plate Weight: 1.2 kg/2.6 lbs.
Part Number: FP80

TP250 Specifications

XYZ-axis travel: 16 mm, 500 µm/turn (50 TPI) and large x/y-axis control screws
Z-axis coarse adjustment: 5 mm/step
Resolution: 5 µm
Θ control: ±10° 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: 1.3 kg/2.86 lbs.
Base: Lockable magnetic switch