# MANUAL PROBEHEAD



## SUSS PH120 Manual ProbeHead

The SUSS line of manual ProbeHeads offers the advantages of proven high quality, superior mechanical and ergonomic design, and complete product line compatibility.

The SUSS ProbeHead PH120 is the ultimate blend of costeffective probing and high quality mechanics. This compact and robust positioner is designed with interchangeable arms such as Triax, Coax and Kelvin as well as arms for backside probing. This variety gives the operator highest application flexibility, covering DC and HF as well as high voltage and low leakage testing with the one ProbeHead body.

# Features and Benefits

- Robust, cost-effective, 3 µm probing
- Superior mechanical and ergonomic design
- True, independent X, Y and Z linear travel
- Adjustable faceplate for additional coarse Z movement
- Variable positioning of arms on the faceplate
- Interchangeable arms for all types of probing applications (e.g. HF, low leakage)
- Ball-bearing slides
- High-resolution micrometers
- Single and double arms with gold-plated collet clampings

The PH120 incorporates an independent X, Y and Z stage system with a maximum mechanical cross-talk deviation of 3 microns. Each stage incorporates hardened steel rails and ball bearings assembled to strict specifications. Each axis has 8 mm of travel with the choice of either 50 or 100 tpi (threads per inch) resolution.

The faceplate provides additional coarse Z movement of  $\pm$  5 mm for maximizing the flexibility of the ProbeHead. Additionally, all probe arms can be fixed in different places on the faceplate to broaden the positioning scope.

All micrometers are ergonomically located at the rear of the ProbeHead. Accordingly, the same PH120 can be placed either on the left or on the right side of the platen making dedicated left or right positioners unnecessary. Accurate, gentle probe needle touch down is not influenced by finger pressure.



## www.suss.com

# Technical Data: SUSS PH120 Manual ProbeHead

Travel Range	
Travel Range X, Y, Z	8 mm
Z Coarse Adjustment	± 5 mm
Resolution	
Feature Resolution	3 µm
Screw Resolution X, Y	250 µm/rev (100 tpi)
or	500 µm/rev (50 tpi)
Screw Resolution Z	250 µm/rev (100 tpi)
Bases	
Choose between	Vacuum
	Magnetic
	Clamping
Footprint	
Footprint Dimension	68 x 38 mm



SUSS' gold-plated collet clamping design provides maximum flexibility and freedom to adjust the needles to three predefined angles while guaranteeing that the tip is held firmly in place.

The PH120 vacuum base system uses dual circular vacuum ports to guarantee strong holding power. Vacuum actuation is controlled by a convenient, body-mounted, "easy touch" plunger. This gives the operator complete control of the ProbeHead positioning without gross probe-needle deviation in the Z direction. Magnetic or clamping bases are also available.

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