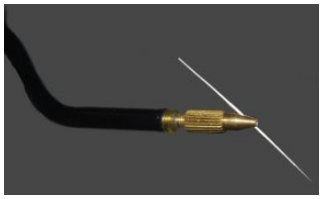
# Accessories - Probe Arms

Probe Arms are connected to the manipulator and combined with a probe tip (DC needle, HF probe) provide the mechanical contact to the device under test (pad or line). Probe arms usually are provided with a probe tip mounting mechanism (clamping collet, spring clamp) that allows the probe tip to be positioned and firmly held in place. One end of the probe arm holds the probe tip and the other end has a cable (coaxial, triaxial, HV,HC, HF, etc.) that is approximately 1 m (3') long terminated with a BNC connector (coaxial, triaxial) that connects directly to the test instrument or a connection panel.



SemiProbe manufactures an extensive line of standard and customized probe arms to address applications and test requirements. Numerous types of cable and connector options are available.

### Common Probe Arms from SemiProbe

| Probe Arms | Picture | Comment |
|---|---|---|
| **Adjustable Probe Arm Faceplate** |  | Is a universal mount for all SemiProbe manipulators. It provides the mechanical adaption of the probe arm to the manipulator. The faceplate provides an additional +/- 13 mm of vertical (Z) probe arm movement and provides the user flexibility when probing a variety of devices ranging from die to packaged parts. |
| **Coaxial** |  | 1 m (3') coaxial cable. One end terminated near the clamping collet. The other end is terminated with a BNC coaxial connector (male). |
| **Triaxial** |  | 1 m (3') triaxial cable. One end terminated near the clamping collet. The other end is terminated with a BNC triaxial connector (male). |

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| **Kelvin** |  | Quasi (one Probe) and True Kelvin (two probes) available. Two cables for each type with choice of coaxial or triaxial connectors. One end (probe side) of the cable is an SMA connector. Other end of cable is terminated with a BNC coaxial or triaxial connector. |
| **Opto** |  | Combines standard HF probe arm with a fiber holder. Fiber holder clamps various size fibers and provides adjustability |
| **High Frequency** |   | Standard arms available in North/South/West/East configurations. Probe arms will accommodate many industry standard HF probes (GS, SG, GSG, Differential, Multi-Contact Wedges) from GGB, Cascade and Rosenberger. Planarization (roll) is performed away from the probe tip. Additional HF probe arms available for Localized Environmental Chamber (LEC). |
| **High Voltage** |  | 3 kV and 10 kV versions available. Cables (coaxial & triaxial) and connectors will vary depending on the instrumentation selected. |
| **High Current** |  | Probe arms up to 100 A are available |
| **Contact Sense** |  | Used with semiautomatic and automatic probe systems. Used to sense when contact is made so the programmable stage stops moving up in Z. The programmable overdrive (50 to 75 um, 2-3 mils) is then applied. |
| **Inker** |  | Primarily used with semiautomatic or automatic probers to mark failed die during probing or inspection operations. Ink cartridges are available in a few different colors and dot sizes. Requires an inker box to be operational. |

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