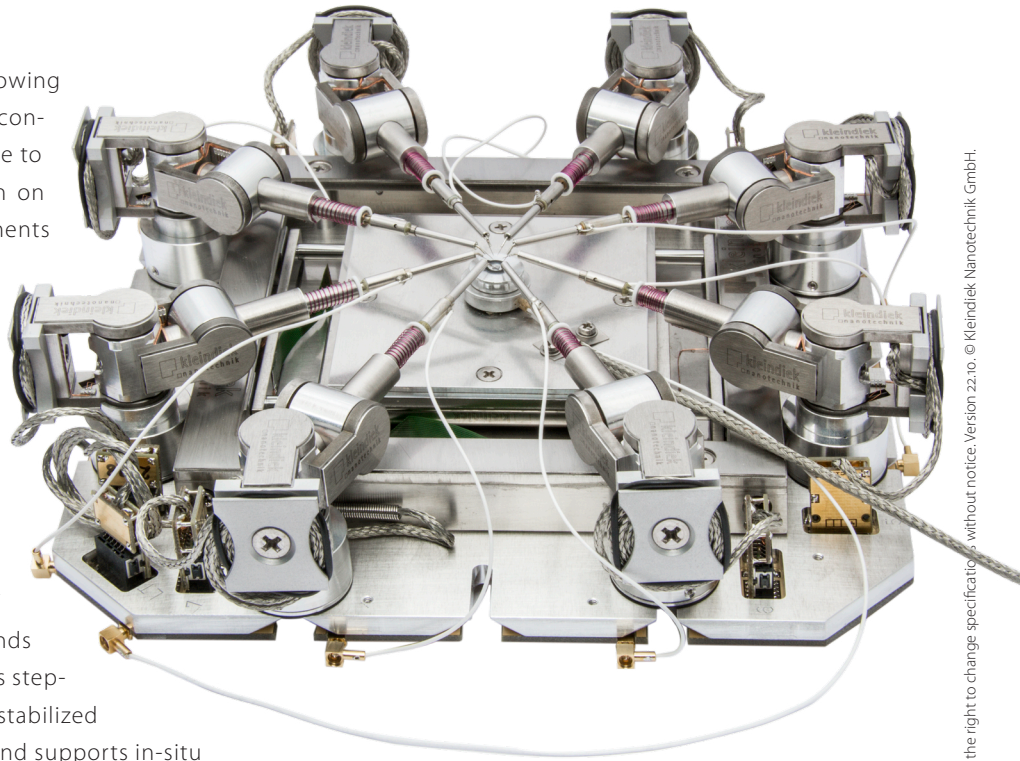


# ProberWorkstation<sup>Plus</sup>

The world's most successful nano manipulator in a modular EBIC and nanoprobe solution for large samples.

Shrinking technologies and growing sample sizes create challenges that conventional probing solutions struggle to meet, e.g., addressing any location on the sample without manual adjustments and testing metal lines that extend past the SEM's beam shift range. ProberWorkstation<sup>Plus</sup> overcomes these limitations by ingeniously combining two types of manipulators: a platform-mounted manipulator that can move with the sample and a ceiling-mounted manipulator that is always insertable at the center of the field of view. A long-range sub-stage extends the manipulators' reach and enables step-and-repeat measurements. The stabilized platform fits up to 8 manipulators and supports in-situ sample heating, cooling, and LED illumination.



## Technical specifications

### ProberWorkstation<sup>Plus</sup> Platform

- 180 mm x 180 mm, height 31 mm
- Typical sample size 70 mm x 70 mm x 10 mm
- Active drift stabilization

### Substage

- Travel X and Y 30 mm
- Optional Z travel 3 mm

### Probers

- Operating range A = 240°, B = 240°, C = 12 mm
- Cartesian motion at probing location

### All axes

- Resolution < 0.5 nm
- Speed up to 1 mm/s
- Drift < 1 nm/min
- No backlash or reversal play
- Coarse and fine displacement in one drive

### Roof-mounted prober

- Automatic park & restore functionality
- Address any site on sample

### Measurement sensitivity

- Noise: 25 fA @ 1 Hz
- Insulation leakage current (probes): <50 fA/V
- Insulation leakage current (sample): <150 fA/V
- Signal conductor resistance: <5 Ω
- Maximum voltage: 100 V
- Maximum current: 100 mA

### System features

- Extreme stability & low kV probing
- Unobscured view of the entire sample
- Up to 8 manipulators for SRAM probing
- Fully integrated control via the APT GUI
- Installed & removed in 60 seconds
- Ready for 5 nm and beyond

### Further information

- Contact us at [info@kleindiek.com](mailto:info@kleindiek.com)
- Find your local agent at [www.kleindiek.com](http://www.kleindiek.com)