PRODUCT SHEET
MP4-K1

Microprobing Platform Kit (4-Bot)

Designed to enhance existing microscopy setups and to add electrical characterization or manipulation capability to virtually any system.
We have more than 15 years of integrating our tools into other setups behind our belt. We guarantee a smooth process of fulfilling your individual specifications and short lead time.

Compatible with

- Upright and inverted optical microscopes (incl. short working distances);
- Probe stations;
- Semiconductor inspection tools;
- Atomic force microscopes (AFM);
- Nanoindenters;
- Raman spectroscopes;
- Glove boxes and environmental chambers.

Versatile applications

Our MICRO solutions can be used to characterize semiconductor, photonic, optoelectronic, MEMS and bioelectronic devices, as well as for other applications in nanotechnology, materials science and energy storage.

Portable, compact and easy to set up

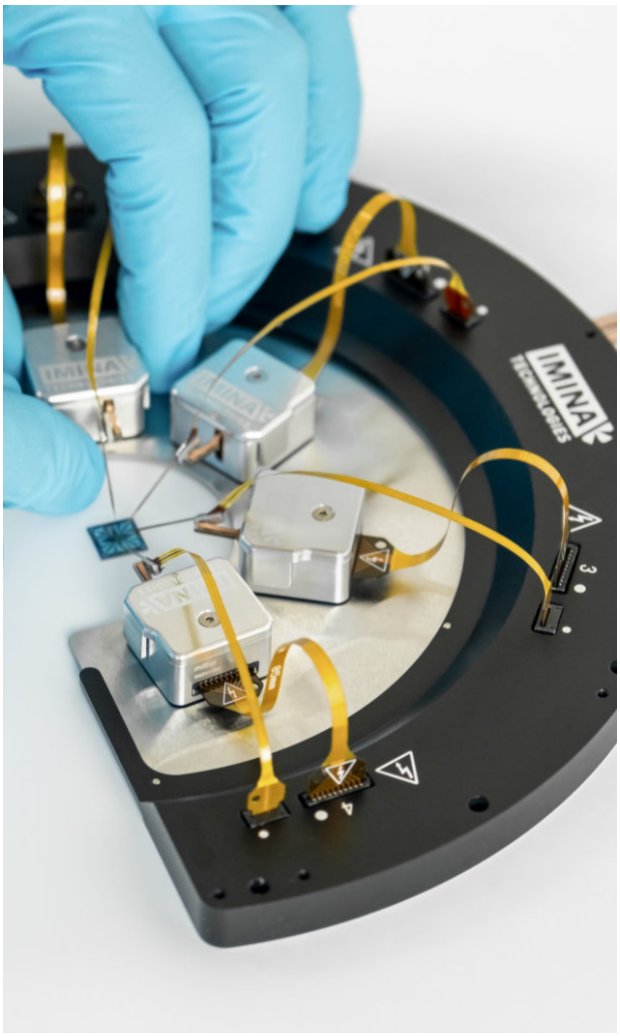
The microprobing platform kit can be easily installed, moved between different setups and stored when not in use. No need for a dedicated microscope!

Safe, reliable and precise measurements

miBots™ are driven by piezo actuators with nm-scale positioning resolution. Thanks to that, the probes can safely land on fragile samples or small features and establish electrical contact without damaging the samples.

User-friendly control interface

All our solutions are easy to learn and to use. With our intuitive software suite Precisio™, users can easily control and set up the system and streamline their workflow.



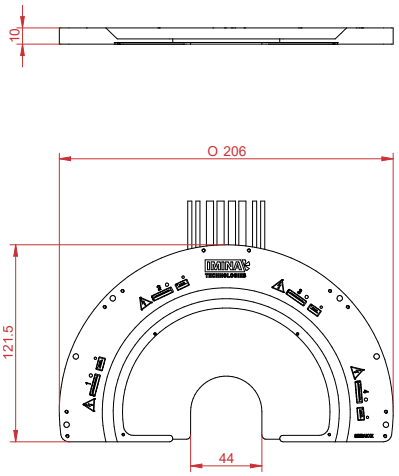
Satisfied users

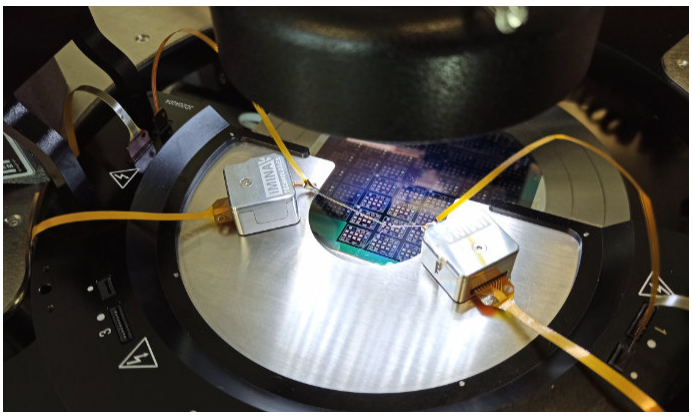
Our setups are installed in more than 200 labs around the world. Most of our users would recommend Imina tools to their colleagues or buy them again if they changed the lab. Our users praise miBots for their precision, flexibility, efficiency and ease to use, and comprehensive documentation.

Swiss quality

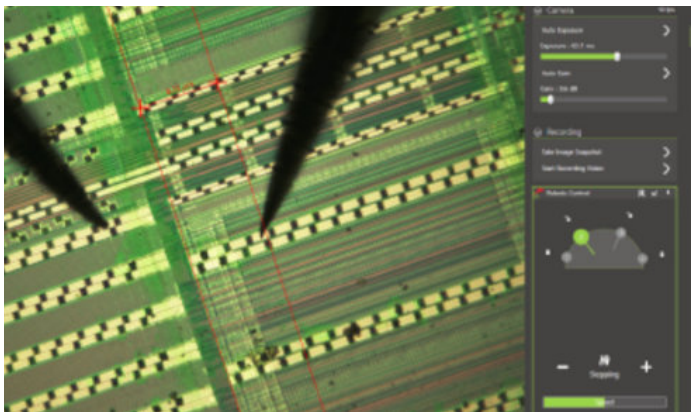
All products of Imina Technologies are designed and assembled in Switzerland, according to the highest standards of precision engineering and manufacturing, and meticulous attention to detail.

Platform kit	
This kit includes	1x Microprobing Platform (4-Bot) 4x probe holder 1x box of miBot flex cables
Sample size	Ø 4”, or larger, depending on the hosting setup
Electrical probing	Interface: 4 coaxial (BNC) connectors Voltage range: ± 100 V (DC / AC Peak) Current range: 1pA – 500mA (DC / AC RMS) Resistance: approx. 3.5 Ω From probe tip to BNC connectors
Dimensions	Width: 206 mm, Depth: 121.5 mm, Height: 44 mm Dimensions without cables
Motorized probes	
Number of probes	Up to 4 miBot™ More miBots can be added to the setup by adding the number of individual platform kits (see Microprobing Platform Kit (1-Bot)).
Degrees of freedom	4 independently driven per probe (X, Y, R, Z)
Motion	Positioning resolution down to 100 nm in the MICRO configuration Option to improve the resolution down to 0.02 nm available upon request
Probe tips	Compatible with probe tips with 0.51 mm (0.020”) shank diameter and various tip radii (5 nm - 1 um)
User interface	Precisio™ software application (Microsoft® Windows)





A Microprobing Platform Kit (4-bot) loaded with two miBots and installed on a Probe Station.



Precisio™ software microscope window with controls for imaging parameters, tools for recording, annotation, and dimensional measuring.

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Data subject to change without notice. (v2 - 06/2025)
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