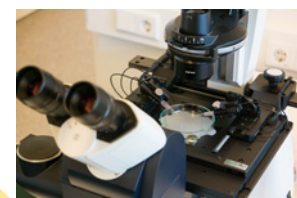
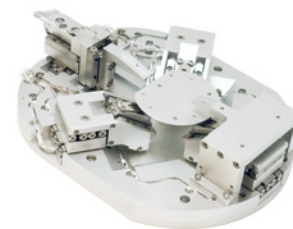
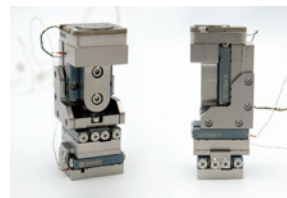


SmarAct Inc. Your Partner for High Precision in Positioning and Metrology

SmarAct develops high-performance solutions for handling and positioning in the micro- and nanometer range. The broad product portfolio - from single positioners to complex parallel kinematics, miniaturized robots and easy-to-use control systems - is completed by sophisticated measuring equipment based on powerful laser interferometers.

- **Linear and Rotational Positioners for UHV, HV and Cryogenic Environments**—stick-slip piezo actuators with low-heat profiles and ultra-high vacuum compatibility which allow sample manipulation down to the mK regime. The stages are based on SmarAct's piezo driving technology which is optimized for cryogenic temperatures down to the mK range. Additionally, they can be used at temperatures of up to 330 K like our standard UHV positioners. Furthermore, they are bakeable at high temperatures of up to +150 °C.
- **SMARPODs**—parallel-kinematic systems for manipulating objects in all six degrees of freedom. The hexapod-like SMARPOD is considerably more compact than common serial kinematics. It has many advantages such as higher rigidity, low moving mass hence improved dynamical response and a user-definable virtual pivot point. Due to the modular design of the SMARPOD, its size and strength can be adapted to changing requirements, reaching from a few centimeters to almost a meter of travel with nanometer resolution. The picture shows a SMARPOD from the 115.25 series.
- **Microscopy Stages with Micro- and Nanomanipulators**—SmarAct Microscopy Stages can be fitted to microscopes of all major manufacturers. The motorized X-Y sample positioning systems allow travel ranges of up to 100 mm with nanoscopic resolution and nanometer repeatability as with SmarAct's linear positioners. Based on our experience for micro- and nanomanipulators, every microscopy stage can be upgraded with different 3D or 4D micro-manipulators for most of the tasks in applications and fundamental research experiments.

SmarAct—for high precision matters: We serve high accuracy positioning and metrology applications in research and industry within such fields as optics, life sciences, micro assembly, semiconductors and microscopy. Maintaining the complete production in house allows a high level of customization so that we can always provide you the optimal individual or OEM solution.



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