

Your innovative partner for UHV growth and analysis

CreaTec Fischer & Co. GmbH, founded in 1992, is an established manufacturer of highly customized, application-oriented components and systems for ultra-high vacuum (UHV). Thirty years of experience in design, construction and production of UHV equipment allow us to implement complex customer's requirements.

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LT-SPM System

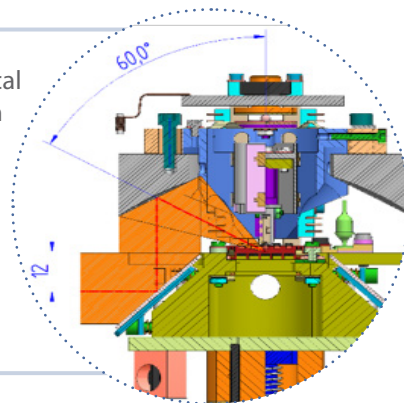


The standard 4K LT-STM can be extended with multiple add-ons, such as nc-AFM functionality, rf transmission lines, a magnetic field or optical access with lenses to the tunnel junction. This makes our system a versatile instrument for a variety of research areas. With its low liquid helium consumption (4lHe / 72h), the LT-SPM guarantees stable conditions for long-term measurements. An additional system with a base temperature of 1K is available and expands the product portfolio to even lower temperatures.

Optical access with parabolic mirrors

NEW

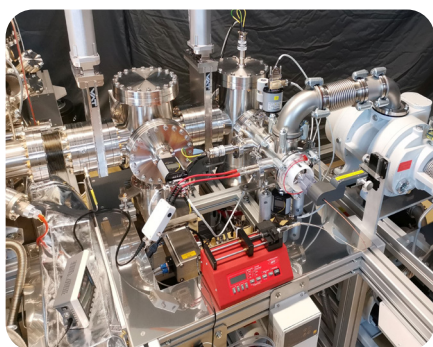
A special version of the SPM features optical access to the tunneling junction through a set of parabolic mirrors which allow the coupling of ultra-fast light pulses as well as long-wavelength radiation (THz). Experiments with ultra-fast time resolution (e.g. pump-probe) and intra-molecular spatial resolution are possible with this design.



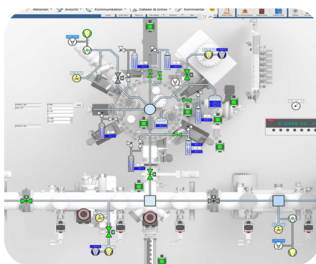
ESI System

NEW

CreaTec offers an electrospray ionization system (ESI) to deposit complex molecules with a low vapor pressure. The system features several differentially pumped stages, i.e., an ion funnel to focus the molecular beam, a deflector to separate the charged ions from neutral particles, and a mass spectrometer to select the proper molecules to be deposited. The ESI is the perfect tool to deposit large, volatile molecules under clean UHV conditions.



System automation



Using a state-of-the-art technical concept, CreaTec can automate complete systems without compromising on the achievable UHV base pressure down to the 10^{-11} mbar range. From fully automated sample transfer to complex procedures for sample preparation and thin film production, almost all conceivable processes can be implemented in a user-friendly manner.

Interested in our products?

Then please contact us at sales@createc.de

Are you interested in further products or are you looking for UHV solutions that are not available in any brochure?

No problem! The products and solutions shown here are only a small selection of our product portfolio and furthermore our team is looking forward to discuss your special requirements together.