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Ultra-high precision spatial positioning of objects is of prime importance in the emerging field of nanotechnology. attocube systems' patented new type of precision-positioning technology is based on an innovative concept that meets those market demands. The ultra-compact Titanium translation stages allow operation under extreme environmental conditions such as cryogenic temperatures (10 mK – 300 K), high magnetic fields (+31 T) and ultra high vacuum environments (5×10^{-11} mbar). These features present a revolutionary advancement for the positioning market leading to new research in numerous areas.

Applications of these outstanding nanopositioning modules, well-known in many labs around the world, include scanning probe techniques such as scanning electron microscopy, confocal microscopy, scanning force microscopy, scanning tunneling microscopy and near-field optical microscopy, to name just a few. Furthermore, they are suitable for general beam manipulation applications involving optical fibers and solid state waveguides.

The product line of attocube systems AG ranges from these stand-alone simple positioning components for laboratory applications to complete automated and integrated solutions for low temperature- / UHV- scanning probe microscopy (SPM). The product range includes different species of Confocal Microscopy (CFM), Atomic Force Microscopy (AFM), Near-field Scanning Optical Microscopy (NSOM) and Scanning Tunneling Microscopy (STM) offering operation modes down to 300 mK as well as high magnetic field and vacuum compatibility.

The product range is completed by innovative and highly flexible control systems for multiple SPM modes. Various SPM hardware and software modules make image acquiring a simple task. 2D and 3D software allow image processing for visually appealing, professional and publishable results.

As a market leader for low temperature Scanning Probe Microscopy we continuously work on supporting our customers to achieve reliable scientific results efficiently. Thus, our aim is to open up new possibilities ranging from scientific research to industrial applications.