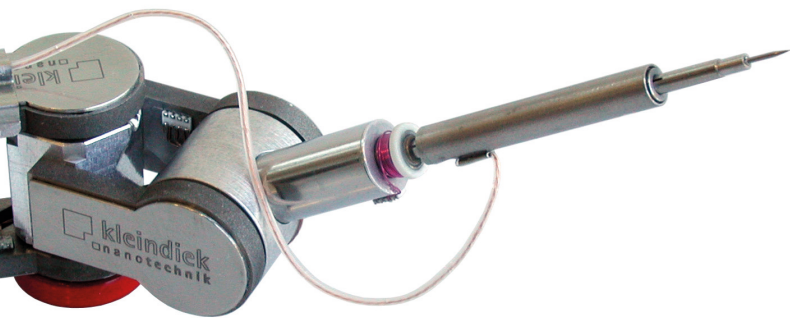


## ROTIP-EM Rotational Tip

The ROTIP-EM is a rotational axis plug-in for the MM3A-EM micromanipulator. It enhances your system by providing a fourth degree of freedom that is required for numerous SEM and FIB applications.



Standard tungsten probe tips can be inserted into the front of the axis and rotated with a resolution of 0.1° per step, allowing applications like true FIB lathe milling, tomography and STEM to be performed with ease. In addition the MGS2-EM microgripper can be combined with the rotational tip to allow gripped objects to be rotated.

The plug-in tool can be quickly and easily retrofitted to your existing MM3A-EM micromanipulator.

### Applications

- Nanomanipulation
- STEM
- Backside milling
- FIB lathe milling
- Tomography
- EFTEM, 3D & high-res mapping

### Technical specifications

- Length 32 mm
- Diameter 4 mm
- Weight 2 g
- Travel 360° unlimited
- Resolution 0.1°
- Torque 0.01 mNm
- Temperature range 273 K to 353 K
- Lowest pressure 10<sup>-7</sup> mbar

### Further information



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