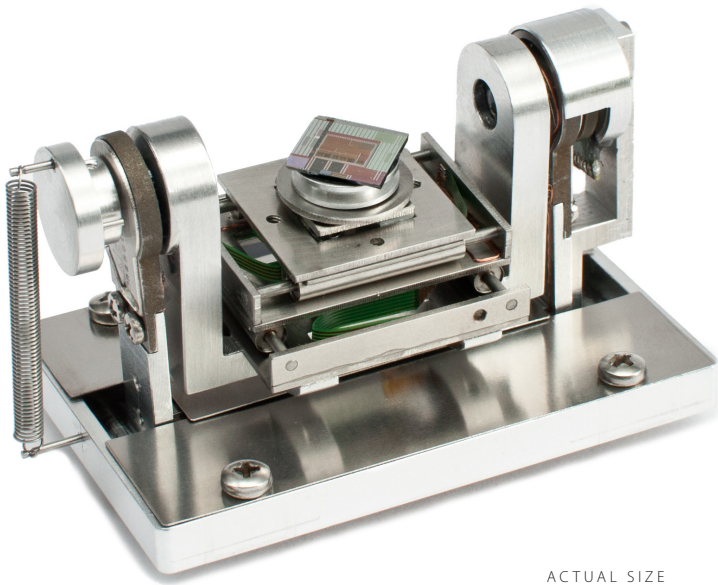


# Eucentric Five-Axis Table

The E5AT stage is a five-axis positioning tool especially designed to allow tilting samples to  $\pm 90$  deg while allowing unlimited rotation of the sample and keeping the area of interest at the eucentric position.



ACTUAL SIZE

The system consists of a small four-axis substage mounted on a tilting platform. The substage offers a range of 10 mm by 10 mm in the X and Y directions and 3 mm in the Z direction. Additionally, the rotational axis allows unlimited rotation of the sample through 360 deg.

The tilting platform is fitted with a positional encoder with a resolution of 0.1 deg.

## Applications

- Electron Channel Contrast Imaging (ECCI)
- Electron Backscatter Diffraction (EBSD)
- Tomography
- ... any application that requires eucentric repositioning of samples

## Technical specifications

- Dimensions
  - Length 72 mm
  - Width 50 mm
  - Height 44 mm
- Travel X and Y 10 mm
- Travel Z 3 mm
- Travel R 360 deg (unlimited)
- Travel T  $\pm 90$  deg, with Encoder
  - Absolute accuracy  $< 0.2$  deg ( $3 \times 10^{-3}$  rad)
  - Repeatability  $< 0.03$  deg ( $4 \times 10^{-4}$  rad)
- Resolution
  - Linear axes  $< 0.5$  nm
  - Rotational axes  $< 6 \times 10^{-6}$  deg ( $10^{-7}$  rad)
- Speed up to 1 mm/s
- Drift 1.5 nm/min
- Cartesian movement
- No backlash or reversal play
- Coarse and fine displacement in one drive
- Virtually unsusceptible to vibrations

## Further information

- Contact us at [info@nanotechnik.com](mailto:info@nanotechnik.com)
- Find your local agent at [www.nanotechnik.com](http://www.nanotechnik.com)



Kleindiek is proudly represented in  
Australia and New Zealand by  
AXT Pty. Ltd.  
1/3 Vuko Pl., Warriewood  
NSW 2102 Australia  
T. +61 (0)2 9450 1359 F. +61 (0)2 9450 1365  
W. [www.axt.com.au](http://www.axt.com.au) E. [info@axt.com.au](mailto:info@axt.com.au)

