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Ultra High Vacuum Technology

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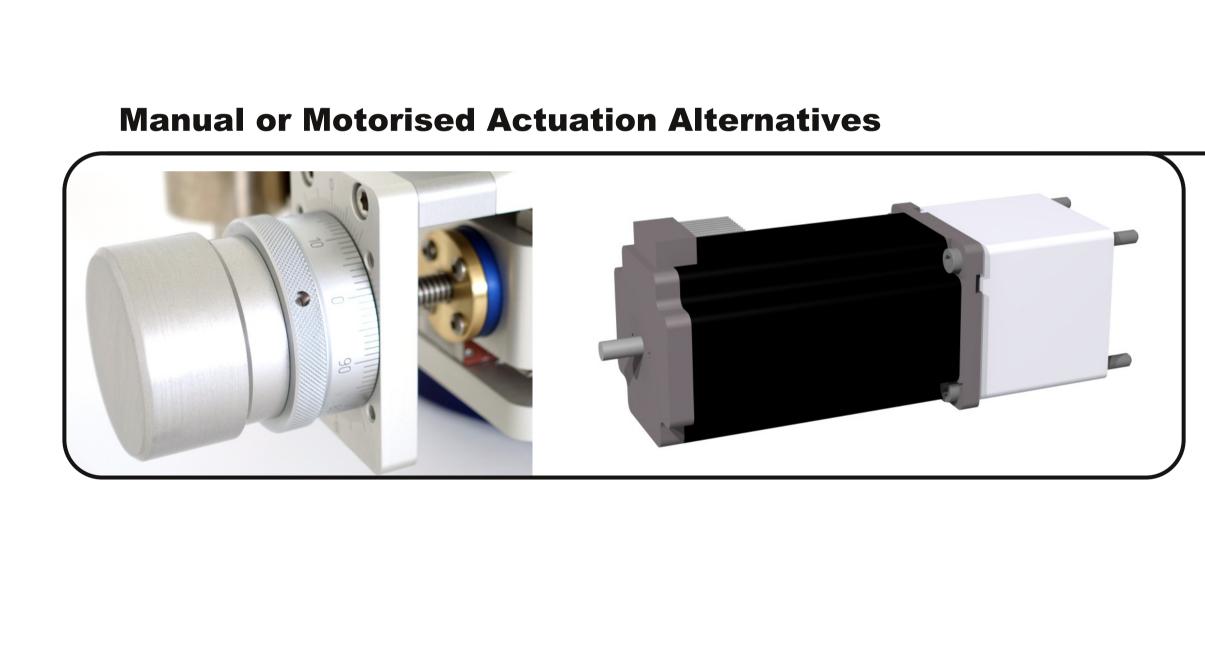
MXYZR ::

XYZR BOOMERAX MANIPULATOR SERIES

This configuration example provides every necessary degree of freedom for full control over your samples in a UHV environment and sample temperatures down to 10 Kelvin by combining a "Boomerax" high precision XY stage with our MZ linear Z-axis drive and incorporating a wellestablished and very stable Janis ST-400 continuous flow cryostat.

Boomerax MXY module :: For smooth and exceptionally precise adjustment, it offers a resolution of 2 microns when manually driven and even higher resolutions when motorized. **RD16 :: Rotary Feedthrough DN16CF** MZ Z-Translator :: The optionally motorized linear Z-axis drive comes into play for accurate lifting and lowering. It's highest quality edge welded bellows fulfill the strictest requirements in terms of leak tightness and durability. ST-400 He-Flow Cryostat :: As one of the the simplest methods of providing cooling in an ultra-high vacuum environment, the ST-400 CRHEFJRST400UHV :: Model ST-400 UHV, LHe or LN₂ has several features that are specific for UHV requirements. continuous flow cryostat system with sample in vacuum MR63DPV552 Rotary Feedthrough :: This differentially pumped rotating platform provides the means of translating rotation through a vessel wall without losing vacuum integrity Sample Environment :: The tilteable sample stage is equipped with a RECOMEC13 receiver for sample plates with electrical contacts, giving a further degree of freedom and the possibility of wiring up MR63DPV552 :: various measurement devices. **Differentially Pumped Rotary Feedthrough Boomerax XYZ Stage Free Bore** As the supports of the bellows are mounted externally, the bellows with Chamber for Electrical Feedthroughs has a continuous free bore from top to bottom MZ63CH63CF63-0100 :: **Linear Z-Drive with two DN63CF** flanges and 100mm of travel MZFCHCF63TCF63T5XCF16T Compact mounting chamber for electrical feedthroughs 0 **Slide Bearing for Guidance** To hold and guide the mounted cryostat especially during linear adjustment, a slide bearing sits inside the mounting flange. MXY100CF100TCF63TXY :: Boomerax **High Precision XY Stage with +-25mm or** +-12.5mm XY travel and bellows ID=100mm **MXY Boomerax XY Stage Sizes and Options** - Mounting Flange Sizes: DN16CF, DN40CF, DN63CF, DN100CF, DN160CF - Travelling Flange Sizes: DN16CF, DN40CF, DN63CF, DN100CF, DN160CF - Limiteable Travel Distances - Motorization Options Available for All Sizes - Tilt: 2° in Any Desired Axis **MZ Motorized Linear Z-Drive Sizes and Options** - Flange Sizes: DN40CF, DN63CF, DN100CF - Standard Linear Travel Lengths:

- 100, 200, 300, 400, 500, 750, 1000, 1250mm
- Adjustable Position/Limit Switch - Linear Encoder - Tapped or Through Holes for Either or Both Flanges



Example of sample environment with rotateable and tiltable sample stage with receiver for SHOMEC13 sample plates with electrical contacts