FERROVAC GMBH

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.

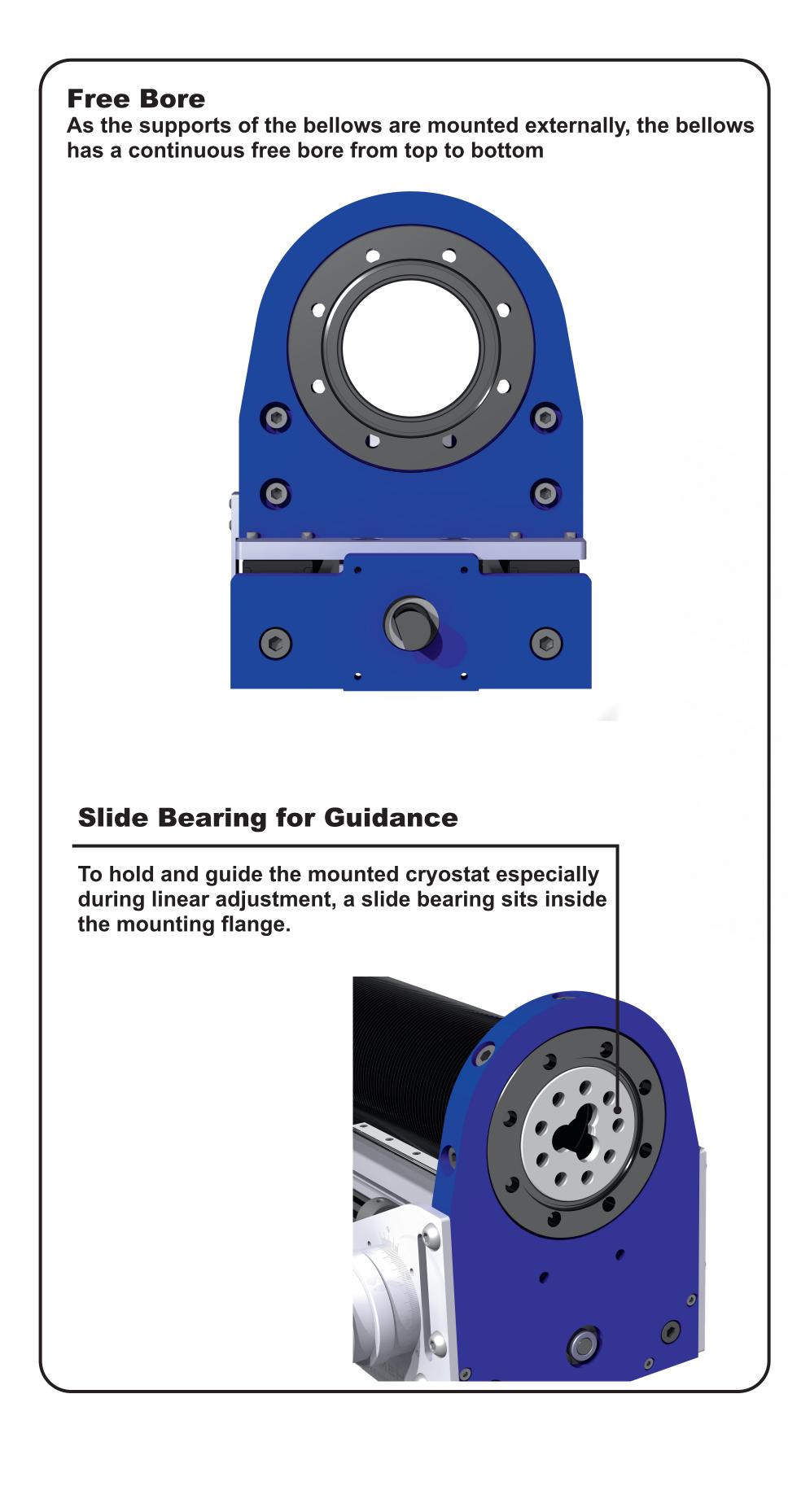
MZ Z-Translator :: The optionally motorized linear Z-axis drive comes into play for accurate lifting and lowering. It's highest quality edge welded bellows fulfill the strictest requirements in terms of leak tightness and durability.

ST-400 He-Flow Cryostat :: As one of the the simplest methods of providing cooling in an ultra-high vacuum environment, the ST-400 has several features that are specific for UHV requirements.

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

various measurement devices.

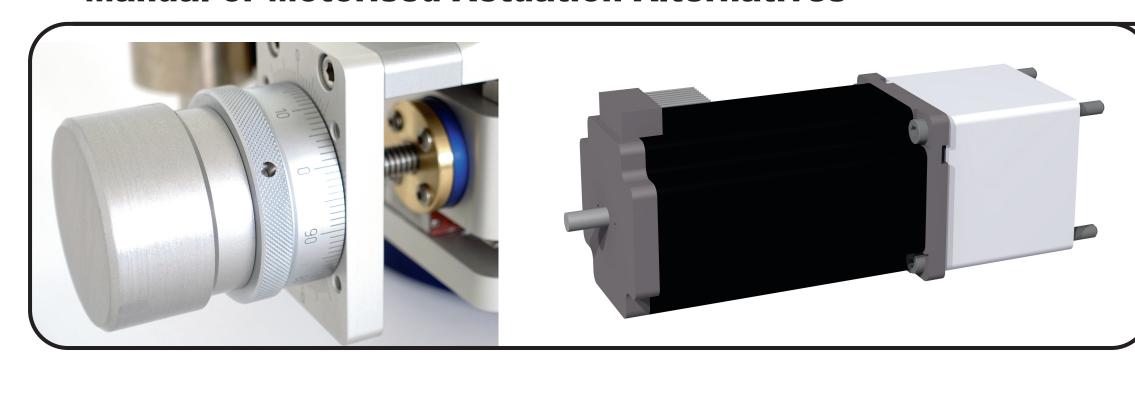


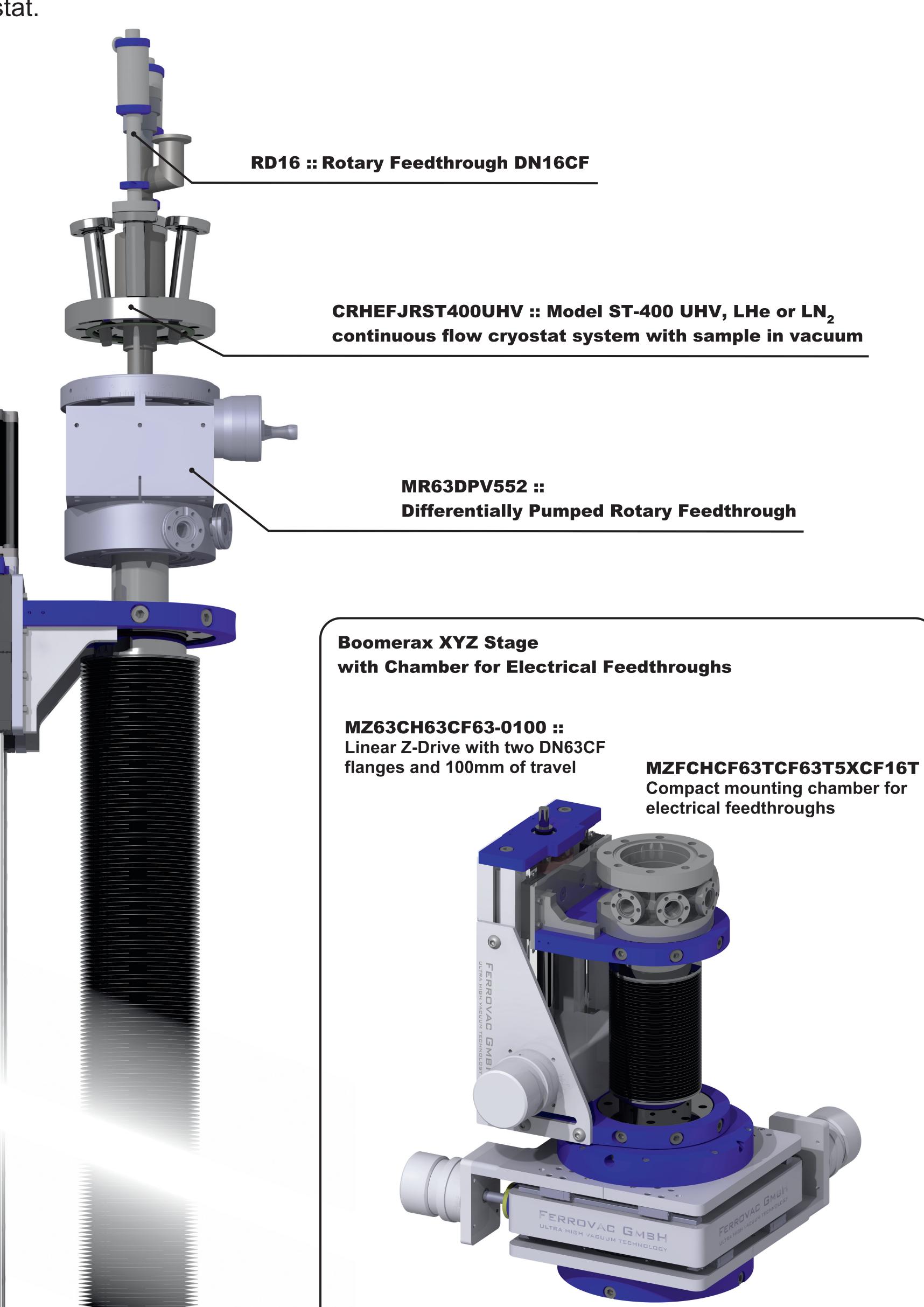
MZ Motorized Linear Z-Drive

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

Manual or Motorised Actuation Alternatives





MXY Boomerax XY Stage

Sizes and Options

- Mounting Flange Sizes: DN16CF, DN40CF, DN63CF, DN100CF, DN160CF

MXY100CF100TCF63TXY :: Boomerax

+-12.5mm XY travel and bellows ID=100mm

High Precision XY Stage with +-25mm or

- Travelling Flange Sizes: DN16CF, DN40CF, DN63CF, DN100CF, DN160CF - Limiteable Travel Distances
- Motorization Options Available for All Sizes
- Tilt: 2° in Any Desired Axis



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