FERROVAC GMBH

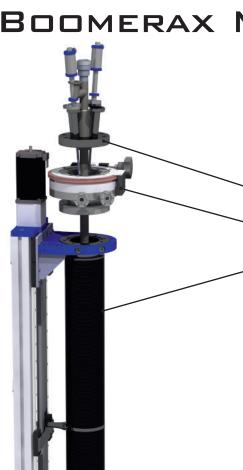
ULTRA HIGH VACUUM TECHNOLOGY

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BOOMERAX MANIPULATOR SERIES



BOOMERAX modules can be combined into multi axis manipulators for up to 6 degrees of freedom. Equipped with linear encoders and motorization, resolutions in the nanometer range are achieved.

Shown here is a 5-axis configuration with sample tilt and Helium flow cryostat.

Helium Flow Cryostat

Differentially Pumped Rotary Feedthrough

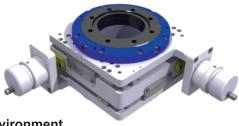
Z-Module

Z-Modules are available with a nominal free bore ranging from 16 to 160mm and with mounting flanges DN16CF (1.33") to DN160CF (8").



XY module

XY modules are presently available with a nominal free bore from 16 to 100mm and with mounting flanges DN16CF (1.33") to DN160CF (8").



Insert and Sample Environment

Manipulator inserts include a rigid support tube and an application specific sample environment. End pieces can include heating, cooling and azimuthal rotation or tilt.

FERROVAC GMBH

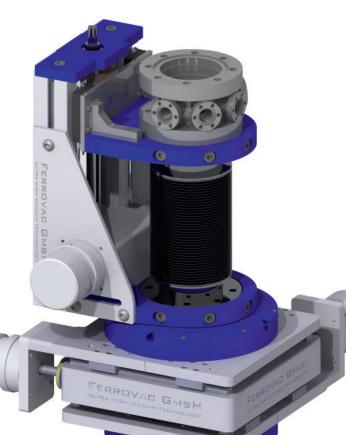
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BOOMERAX MODULES AND OPTIONS



MZ-Z Axis Manipulator

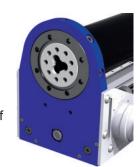
Pictured: MZ63CH63CF63-0100 Linear Z-Drive with two DN63CF flanges and 100mm travel

Ferrovac Precision

Resolution: 5 microns with manual operation. Motorized versions achieve higher resolution.

Slide bearing for Insert

Mounted inside the base flange of the Z-Module, a slide bearing supports and guides the insert tube. This greatly adds to the overall stability and minimizes vibrations on the sample.



MXY Boomerax Manipulator

Pictured: MXY100CF100TCF63TXY

Boomerax XY Stage with

+-25mm XY travel 100mm free bore.

Ferrovac Precision

Resolution: 2 microns with manual operation. Motorized versions achieve higher resolution.

Axis adjustment (tilt) of mounting flanges

Both flanges can be tilted up to 2° by set screw adjustment.



Step resolution down to 160 nanometers

X, Y and Z modules can be equipped with linear absolute

The sensor head can be easily dismounted for bakeout.

Linear Absolute Optical Encoders

Linear Encoder

Ferrovac Precision

encoders.

