

**XYZ-Axis precision
manipulator, 100 mm
stroke, stainless steel,
DN 40 CF**



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XY-Axis manipulator

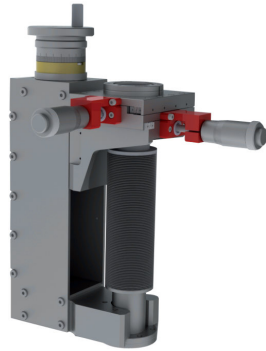
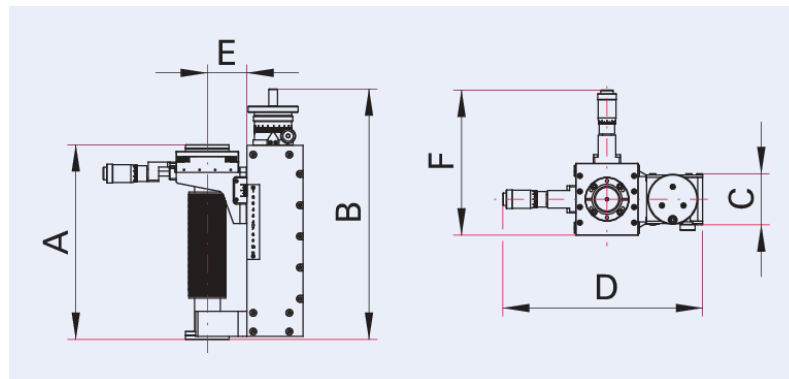


Illustration only

XYZ-Axis precision manipulator, 100 mm stroke, stainless steel, DN 40 CF

- Compact design for precise 3-axis manipulation
- Z-axis: Recirculating ball bearing guides and recirculating ball screw drive
- XY-axis: precision cross roller guides
- Zero backlash and no slip-stick effect
- Guide and drive are wear-free and maintenance-free
- Extremely stable design concept minimizes position offset due to pressure changes
- XY-axis micrometer screws with big knobs - easy to handle and easy to read
- Brake for z-axis prevents independent movement
- Connection flange with through holes, traversable flange with threaded holes

Dimensions



A	210 - 310 mm
B	400 mm
C	82 mm
D	321 mm
E	63.5 mm
F	232 mm

Technical Data	XYZ-Axis precision manipulator, 100 mm stroke, stainless steel, DN 40 CF
Pitch of ball screw drive	2 mm/Rotation
Operating temperature	-15 – 80 °C
Precision	< 5 µm (XY-axis)
Mounting orientation	Arbitrary
Tightness	<1 · 10 ⁻¹¹ Pa m ³ /s <7,5 · 10 ⁻¹¹ Torr l/s <1 · 10 ⁻¹⁰ mbar l/s
X/Y-deflection	±12,5 mm ±0.49 inch
Stroke	100 mm 3.93701 inch
Resolution	5 µm
Repeatable precision	5 µm
Connection flange	DN 40 CF
Pressure range	1 · 10 ⁻¹⁰ hPa – to ambient pressure
Inner diameter	38 mm
Material	Bellows: stainless steel 316L, flange and tube: stainless steel 304L, housing: stainless steel 304, XY-unit: aluminum anodized

Order number	XYZ-Axis precision manipulator, 100 mm stroke, stainless steel, DN 40 CF
XYZ-Axis precision manipulator, 100 mm stroke, stainless steel, DN 40 CF	420MXYZ040-100



Errors and/or changes excepted. - 5/14/2025

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