

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

---

**PFEIFFER** 

# XY-Axis manipulator

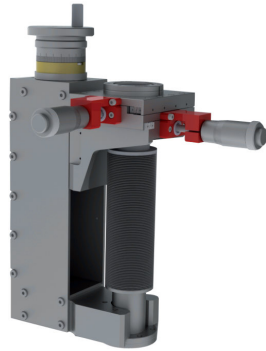
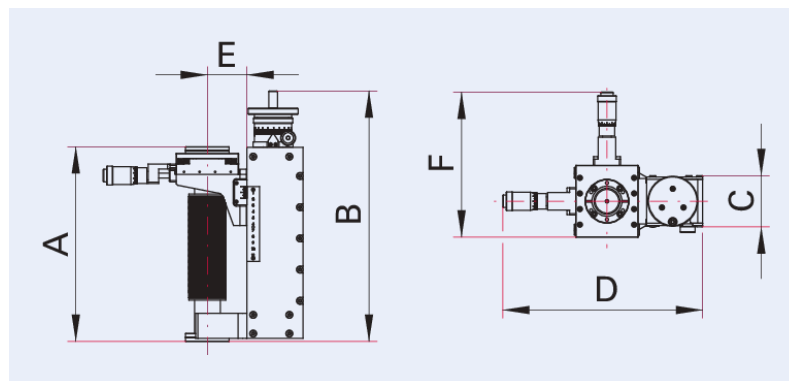


Illustration only

## XYZ-Axis precision manipulator, 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	280 - 680 mm
B	770 mm
C	82 mm
D	321 mm
E	63.5 mm
F	232 mm

<b>Technical Data</b>	<b>XYZ-Axis precision manipulator, stainless steel, DN 40 CF</b>
Pitch of ball screw drive	2 mm/Rotation
Operating temperature	-15 – 80 °C
Precision	< 5 µm (XY-axis)
Mounting orientation	Arbitrary
Tightness	<1 · 10 <sup>-11</sup> Pa m <sup>3</sup> /s   <7.5 · 10 <sup>-11</sup> Torr l/s   <1 · 10 <sup>-10</sup> mbar l/s
X/Y-deflection	±12.5 mm   ±0.49 inch
Stroke	400 mm   15.74804 inch
Resolution	5 µm
Repeatable precision	5 µm
Connection flange	DN 40 CF
Pressure range	1 · 10 <sup>-10</sup> 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

<b>Order number</b>	<b>XYZ-Axis precision manipulator, stainless steel, DN 40 CF</b>
XYZ-Axis precision manipulator, stainless steel, DN 40 CF	420MXYZ040-400



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

Are you looking for an optimum vacuum solution?

Talk to us:

**Pfeiffer Vacuum Components & Solutions GmbH Germany**

**T +49 551 99963-0**

**info-cs@pfeiffer-vacuum.com**

Or scan the barcode, to visit our web page:



<https://webportal.pfeiffer-vacuum.com/global/en/contact>

Follow Us On Social Media

#pfeiffervacuum



[www.pfeiffer-vacuum.com](http://www.pfeiffer-vacuum.com)

**PFEIFFER** 