



Omniax Wide Bore Manipulator

Modular XYZ Omniax with NW100CF (152mm OD) conflate flange travelling. 100mm clear bore. Z travel 100mm to 1000mm; ± 25 mm XY travel. Manual and motorisation options.



Product Overview

- Dual bellows
- Base Flange 152mm (6") or (203mm) 8" option
- Z travels available from 100mm to 1000mm
- Hinged Travelling flange 152mm OD conflat flange
- Motorisation option
- 100mm clear bore with full ± 25 mm XY travel
- Large load capacity
- The X-axis actuator positions can be moved to the opposite side for convenience
- Bakeable to 230°C
- Operating pressure 1 bar to 10^{-11} mbar
- Leak rate $< 1 \times 10^{-10}$ mbar ls⁻¹

The Wide Bore Omniax has been developed from the highly successful, tried and tested Omniax manipulator. It provides the accuracy and repeatability the UHV community has come to expect from the original Omniax, but has a larger 100 mm clear bore to accommodate a wider range of cryostats and offers even greater mechanical stability.



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| Wide Bore Omniax Z Slide Modules and Accessories | | |
|--|--|------------|
| Travel Range ⁽¹⁾ mm | | Order Code |
| 100 | | MMW2010 |
| 200 | | MMW2040 |
| 400 | | MMW2040 |
| 600 | | MMW2060 |
| 800 | | MMW2080 |
| 1000 | | MMW2100 |
| Z Slide Motorisation | | |
| Z Axis Stepper Motor Upgrade | | MOTWBZST |
| Z Axis DC Motor Upgrade | | MOTWBZDC |

| Wide Bore Omniax XY Slide Modules and Accessories | | |
|---|-------------------|------------|
| Base Flange | Travel Range | Order Code |
| NW100CF (6" OD) | Z-only ± 0 mm | MTW000B6 |
| NW100CF (6" OD) | ± 25 mm Stage | MTW211B6 |
| NW150CF (8" OD) | Z-only ± 0 mm | MTW000B8 |
| NW150CF (8" OD) | ± 25 mm Stage | MTW211B8 |
| XY Module Motorisation | | |
| XY Axis Stepper Motor Upgrade ⁽¹⁾ | | MTXYMOTW |
| X Axis DC Motor ⁽²⁾ | | MT08DCX |
| Y Axis DC Motor ⁽²⁾ | | MT08DCY |