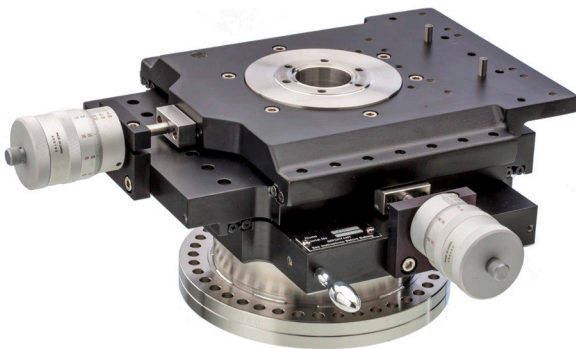




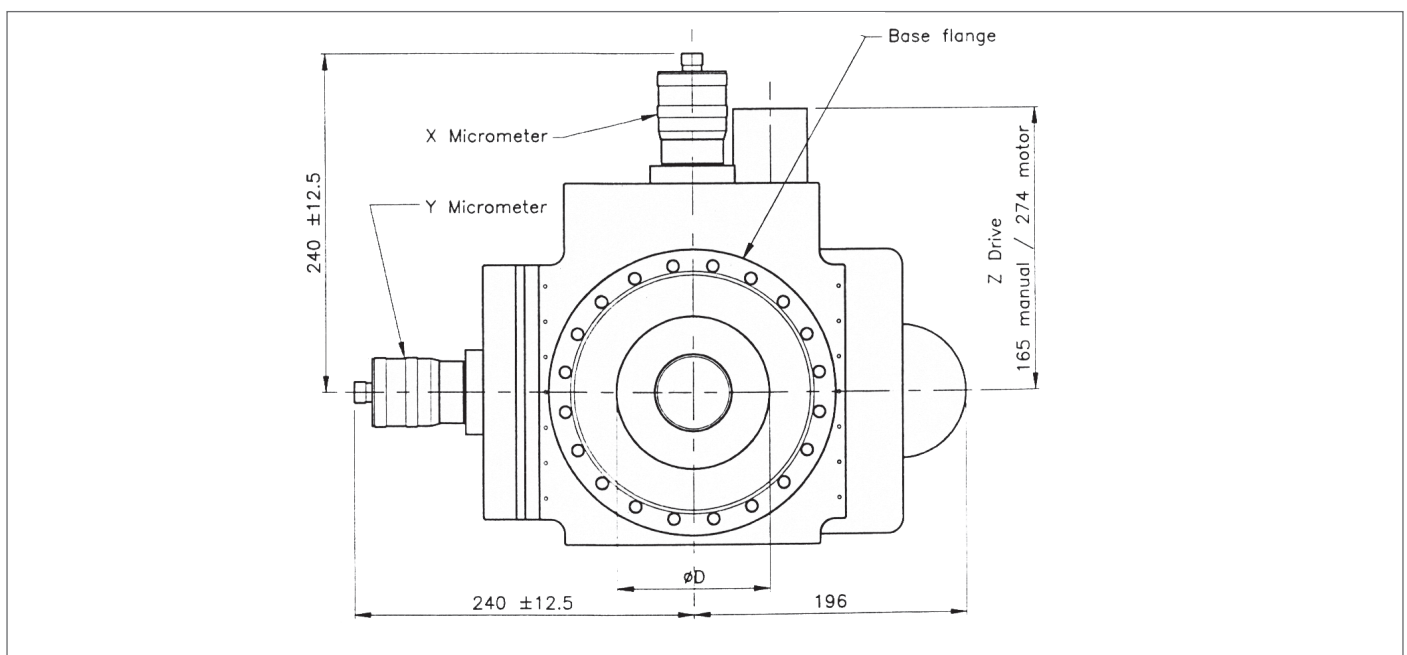
## Omniax XY Stage Module

The Omniax XY module is designed as a standalone single edge welded bellows module which is compatible with Omniax linear shift mechanisms (Z axis) and Rotating platforms such as the RP100, allowing a complete sample manipulator to be created by adding these modules together.



### Product Overview

- Single edge welded bellows
- Full  $\pm 25.0\text{mm}$  movement in both the X and Y
- 54mm clear bore at X and Y full travel
- Double bolt holes on mounting flange
- Large barrel 5 micron graduations micrometers as standard
- Retrofittable Motorisation
- Stepper motor with limit switch options
- Encoded motors are also available.
- Bakeable to  $230^{\circ}\text{C}$
- Operating pressure 1 bar to  $10^{-11}$  mbar
- Leak rate  $<1 \times 10^{-10}$  mbar  $\text{ls}^{-1}$





## Omniax XY Stage Module

### Omniax XY Module - Basic Dimensions

XY Travel	Basic Code of XY stage	A2	Bellows Bore D	Support tube
±25.0	T211-12.5	175mm	108mm	28 or 54mm
±25.0	T211	175mm	108mm	28 or 54mm

### Omniax XY Stage Modules and Accessories

Base Flange	Travel Range	Order Code
NW100CF (6" OD)	Z-only ±0 mm	MT000B6S
NW100CF (6" OD)	±12.5 mm Stage	MT211B6-12.5
NW100CF (6" OD)	±25.0 mm Stage	MT211B6S
NW150CF (8" OD)	Z-only ±0 mm	ZT000B8S
NW150CF (8" OD)	±12.5mm Stage	ZT211B8-12.5
NW150CF (8" OD)	±25.0 mm Stage	ZT211B8S

### XY Module Motorisation

XY Module Motorisation	Order Code
X Axis Stepper Motor	MTXYMOTW*
Y Axis Stepper Motor and Encoder	MTXYMOTE*

\*Single Axis Kits

#### Manual Operation

- 10 micron resolution
- 10 micron repeatability

#### Stepper motors

- 0.5 micron resolution
- 0.5 micron repeatability using 4 mm.s<sup>-1</sup> maximum speed