



## Precision Double Rotary Manipulator 2XRMD70



2XRMD70

THE Panmure double rotary drive is truly unique in two ways. Firstly, because both rotations use the eccentric drive mechanism that enables us to produce all our manipulators with ultra-high precision on high rigidity. Secondly, we can solidly couple to both motions so as to give direct rotation of one shaft inside the other. Both shafts give a continuous 360° rotation.

### Specification

- fully UHV compatible incorporating stainless steel bellows, bearings and internal components
- external components—anodised aluminium alloy
- 360° continuous independent rotation, both axes
- angular calibration 360° in 5° steps
- shaft concentric to within 0.05 mm
- mounted on a 70 mm conflat flange
- lock screws on both rotations
- fully bakeable to 250 °C without dismantling
- pressure range to 10<sup>-12</sup> mbar
- toothed belt pulley handwheels

- stepping motor drive systems

### Torque

Inner rotation

2000 N cm maximum—hand operation

30 N cm maximum at 500 rpm

Outer rotation:

3250 N cm maximum—hand operation

30 N cm maximum at 500 rpm

### Outline dimensions

length	max. 494 mm
diameter	max. 75 mm
	min. 4 mm

### Additions

- bearing housings and shaft length to suit customers' requirements