

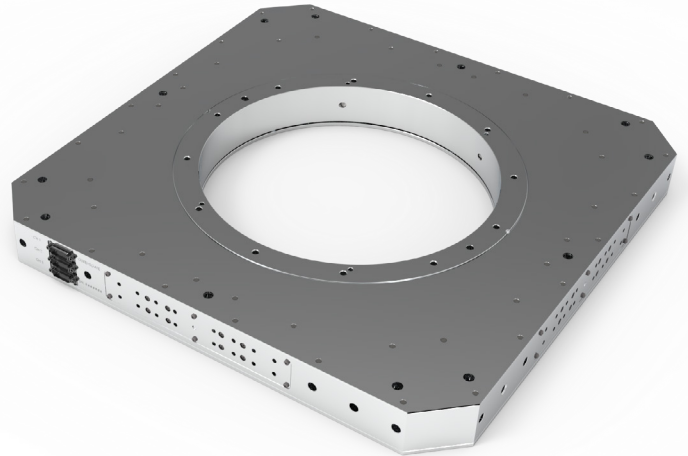
# NPS-XYP-250Q

## 300 mm shadow-mask alignment stage

The NPS-XYP-250Q nanoposition stage provides high-precision and highly stable positioning of shadow-masks in the 300 mm manufacturing process.

It provides 250  $\mu\text{m}$  of motion in the X, Y axis and 250  $\mu\text{rad}$  rotation in Yaw ( $\varphi / \theta_z$ ). The stage has an extremely large 350 mm aperture and load capacity of >10 kg.

High-vacuum and elevated temperature capabilities make it suitable for a broad range of mask tasks both in photomask production and wafer manufacturing including vapor deposition systems.



## Key Features

- Travel range:
  - X,Y - 250  $\mu\text{m}$
  - Yaw - 250  $\mu\text{rad}$
- High-vacuum compatible ( $10^{-7}$  Torr)
- Operational temperatures up to 50  $^{\circ}\text{C}$
- 350 mm aperture
- Load capacity: >10 kg
- Materials: aluminum (body), stainless steel and titanium in construction
- Weight: 31.5 kg
- Size: 600 x 600 x 60 mm
- Stability: <1.5 nm (rms) over 60 seconds

## Ordering Information

The NPS-XYP-250Q is not available for general sale. Please contact your local Prior Scientific office or distributor if you would like to discuss requirements for a similar positioning system.

### UNITED KINGDOM

Prior Scientific Instruments Ltd.  
Units 3-4 Fielding Industrial Estate  
Wilbraham Road, Fulbourn  
Cambridge, CB21 5ET  
United Kingdom  
Email: [inquiries@prior.com](mailto:inquiries@prior.com)  
Phone: +44 (0)1223 881711

### U.S.A.

Prior Scientific, Inc.  
80 Reservoir Park Drive  
Rockland, MA. 02370  
U.S.A.  
Email: [info@prior.com](mailto:info@prior.com)  
Phone: +1 781 878 8442

### GERMANY

Prior Scientific Instruments GmbH  
Maria-Pawlowna-Str. 4  
D-07743, Jena, Germany  
Email: [jena@prior.com](mailto:jena@prior.com)  
Phone: +49 (0)3641 242 010

### JAPAN

Kayabacho 3rd Nagaoka Bldg 10F,  
2-7-10, Nihonbashi Kayabacho, Chuo-Ku,  
Tokyo103-0025, Japan  
Email: [info-japan@prior.com](mailto:info-japan@prior.com)  
Phone: +81 (0)3 5652 8831

### CHINA

Prior Scientific Instruments (Suzhou) Ltd.  
Room 118, Meilihua Hemu Park  
No. 393 Suhong Middle Road, Suzhou Industrial Park  
Suzhou, 215000, China  
Email: [info-china@prior.com](mailto:info-china@prior.com)  
Phone: +86 (0)512 6617 5866

