

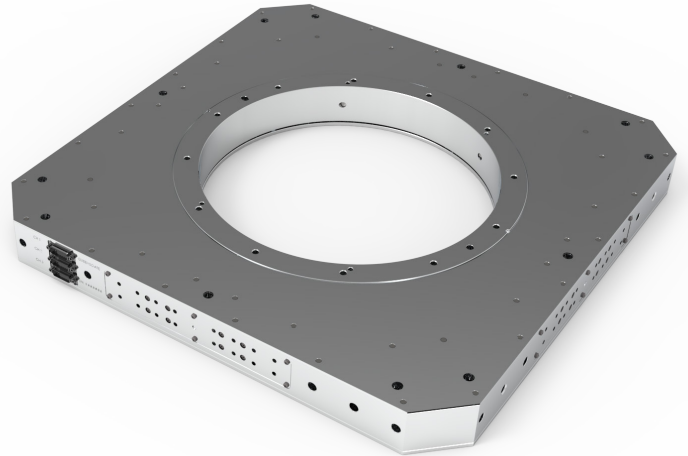
NPS-XYP-250Q

300 mm wafer-mask alignment stage

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

It provides 250 μm of motion in the X, Y axis and 250 μrad rotation in Yaw (φ / θ_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 μm
 - Yaw - 250 μrad
- 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.

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