

H116/2 / HE16/2

Motorized 8-inch travel stage for upright microscopy

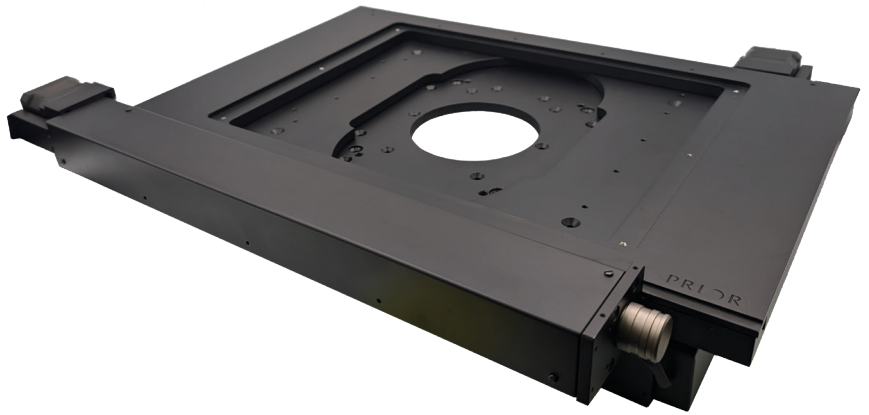
The ProScan H116/2 and HE16/2 motorized XY stages for upright industrial microscopy are compatible with commercial microscopes, Prior's OpenStand-L platform and are fully customizable.

The stages have a long travel range and 25 kg load capacity for scanning large heavy samples such as 8-inch semiconductor wafers, flat panel displays and printed circuit boards up to 200 mm diameter.

The H116/2 and HE16/2 feature Prior's patented Intelligent Scanning Technology (IST) to enhance accuracy and linearity together with a 2 mm ballscrew for speed. The stages scan large industrial samples reliably and efficiently.

Other drive configurations for increased speed may be available depending on your region.

These stages are compatible with transmitted light applications and provides easy access for loading samples.



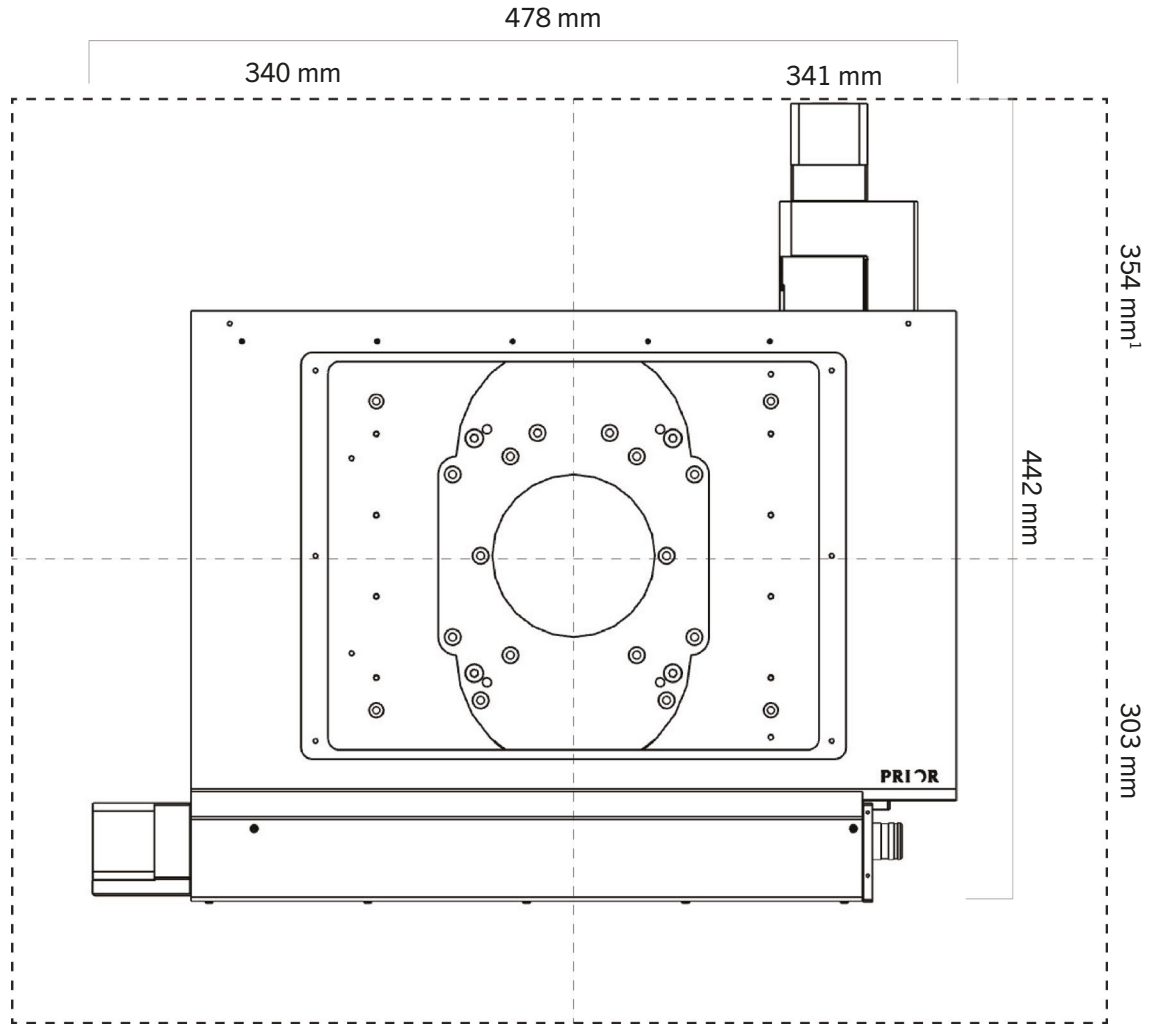
Key Features

- Easy to integrate into customized imaging solutions.
- Supports 8-inch wafers, with extra X-axis travel range for easy sample loading.
- Slim design with 25 kg load capacity.
- Excellent combination of speed and accuracy.
- Intelligent Scanning Technology™ (US Patent 7,330,307).

Applications

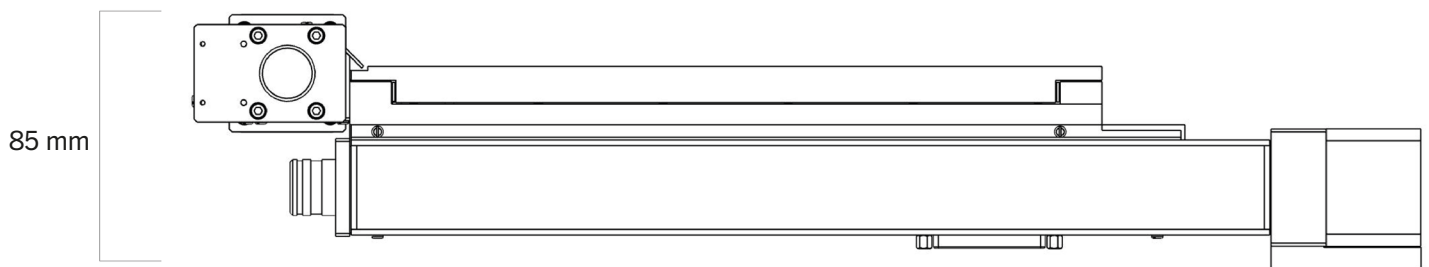
- Metrology
- Industrial microscopy
- Semiconductor inspection

Dimensions*



*Outer dotted line shows the maximum footprint of the stage when at the limits of travel.

1. Decreases to 328 mm with H116/2-8 and HE16/2-8.



Specifications

	H116/2	HE16/2
Travel range ⁵	255 mm x 215 mm	255 mm x 215 mm
Unidirectional repeatability ¹	<0.6 µm	<0.6 µm
Bidirectional repeatability ¹	<3.0 µm	<0.9 µm
Metric accuracy ¹	0.14 µm/mm	0.10 µm/mm
Full travel metric accuracy	<30.9 µm	<21.3 µm
Resolution ²	0.04 µm	0.1 µm
Squareness ¹	<45 arcsec	<45 arcsec
Maximum velocity ³	60 mm/s	60 mm/s
Maximum load ⁴	25 kg	25 kg
Encoders	No	0.1 µm linear encoders
Motor type	200 step	200 step
Screw pitch	2 mm	2 mm
Weight	8 kg	8 kg

1. As per Prior Scientific's test methodology, typical value.

2. Defined as the minimum motor step resolution for non-encoded stages, defined as the encoder resolution for encoded stages.

3. Defined as 2.5x the default velocity, true maximum velocity is dependent on sample mass.

4. Unbalanced loads may damage the stage. Contact Prior for more information.

5. Decreases to 255 mm x 192 mm with stages compatible with Nikon L200N and L200ND.

All specifications correct when using a ProScan controller.

Ordering Information

Part Number	Description
H116/2	Large format ProScan® stage for larger upright microscopes, travel range of 255 x 215 mm, 2 mm pitch ball screw and 200 step motors.
HE16/2	Large format ProScan® stage for larger upright microscopes, travel range of 255 x 215 mm, 2 mm pitch ball screw and 200 step motors. Encoded with 0.1 µm linear encoders.
H116/2-8	Large format ProScan® stage for Nikon L200N and L200ND, travel range of 255 x 203 mm, 2 mm pitch ball screw and 200 step motors.
HE16/2-8	Large format ProScan® stage for Nikon L200N and L200ND, travel range of 255 x 192 mm, 2 mm pitch ball screw and 200 step motors. Encoded with 0.1 µm linear encoders.
H116/20L	Large format ProScan® stage for Evident/Olympus MX series, travel range of 255 x 215 mm, 2 mm pitch ball screw and 200 step motors.
HE16/20L	Large format ProScan® stage for Evident/Olympus MX series, travel range of 255 x 215 mm, 2 mm pitch ball screw and 200 step motors. Encoded with 0.1 µm linear encoders.

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