

H105NL/2 STAGE

Motorized 6-inch travel stage for Nikon LV-series

The H105NL/2 stage is designed for use with Nikon LV100 and LV150 microscopes for 6-inch semiconductor wafer imaging.

The stage features a notch at the rear to enable the full travel range to be achieved on these smaller microscopes, enabling high precision motorized control otherwise only available on larger systems.

Numerous sample holders dedicated to industrial applications are available for the H105NL/2.

Featuring Prior's patented Intelligent Scanning Technology (IST) to optimize stage accuracy, linearity and other performance characteristics in combination with a 2 mm ballscrew for speed, the H105NL/2 is optimized for scanning industrial samples reliably and efficiently.



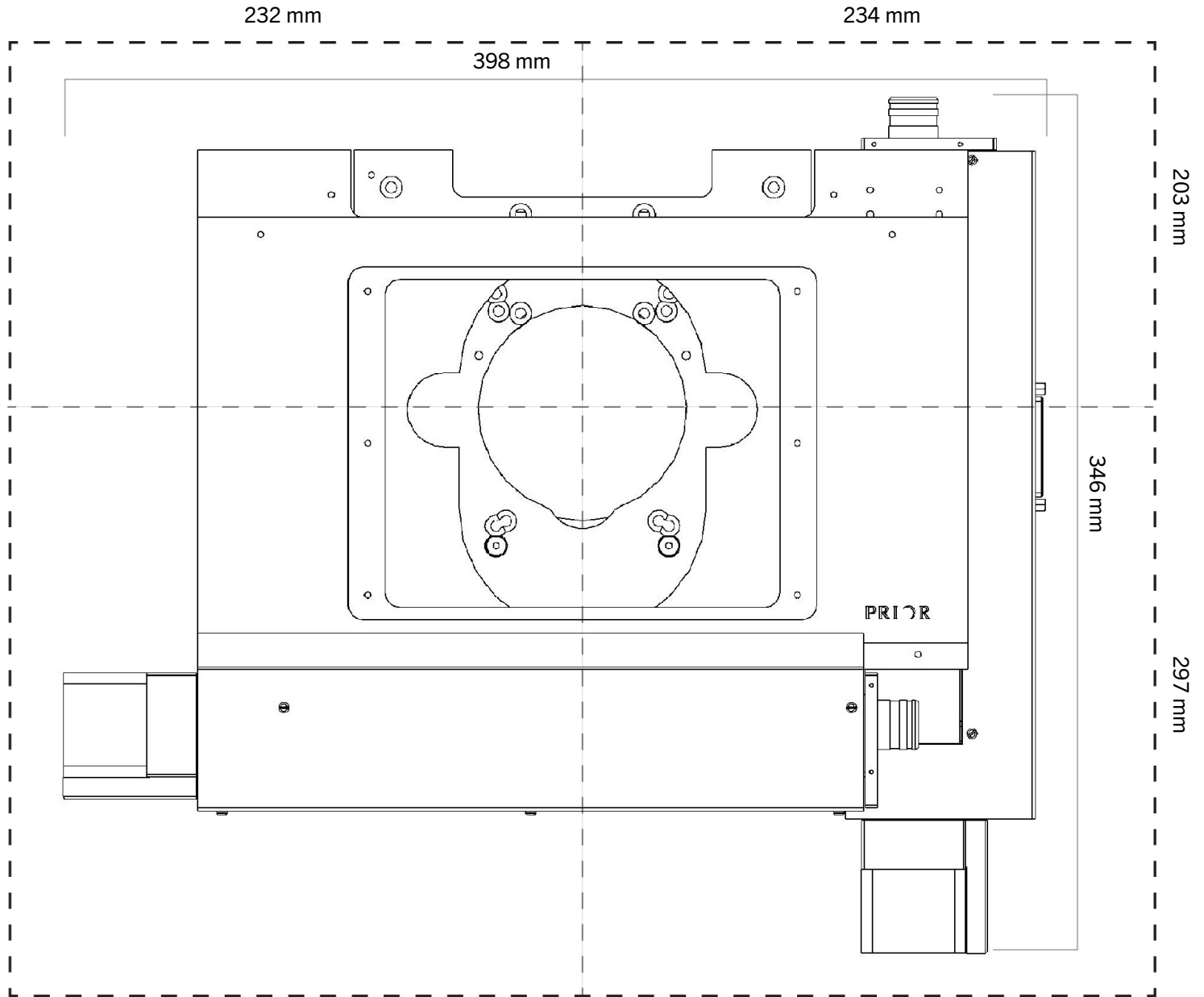
Key Features

- Directly compatible with Nikon LV100/LV150 and NIS Elements software.
- Travel range supports 6-inch wafers.
- Intelligent Scanning Technology™ (U.S. Patent 7,330,307).
- Additional clearance simplifies integration into Openstand and other customized imaging systems.
- Excellent combination of speed and accuracy.

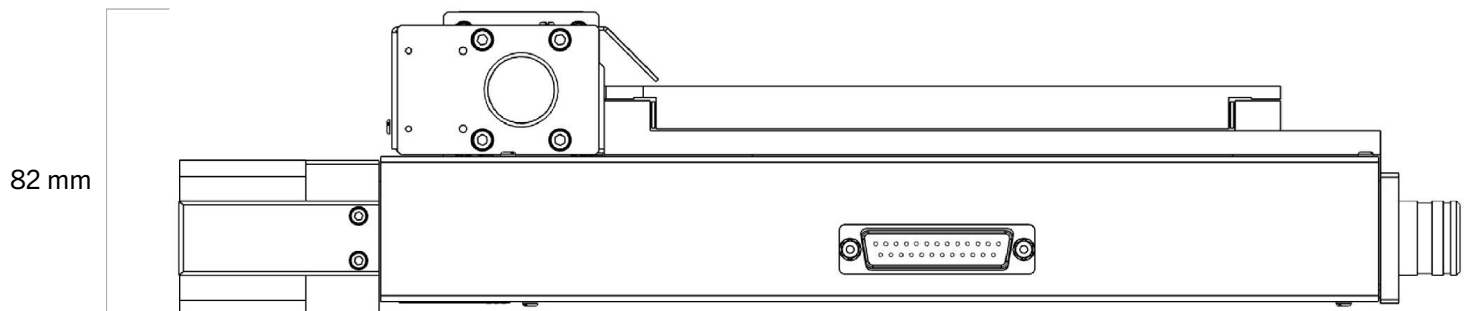
Applications

- Industrial microscopy
- Metrology
- Semiconductor inspection

Dimensions*



*Outer dimensions are the maximum footprint of the stage when at the limits of travel.



Specifications

H105NL/2

Travel range	154 x 154 mm
Unidirectional repeatability ¹	<0.9 µm
Bidirectional repeatability ¹	<3.0 µm
Metric accuracy ¹	0.07 µm/mm
Full travel metric accuracy	<11 µm
Resolution ²	0.04 µm
Squareness ¹	45 arcsec
Maximum velocity ³	60 mm/s
Maximum load	10 kg
Encoders	No
Motor type	200 step
Screw pitch	2 mm
Weight	5 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.

Ordering Information

Part Number	Description
H105NL/2	Large format ProScan® stage for Nikon LV100/150, with travel range of 154 x 154 mm, 2 mm pitch ball screw and 200 step motors for Nikon microscopes.

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