

H105N2F

Large format flat top motorized stage

Fitting most upright microscopes, the H105F is part of the wide range of precisely engineered ProScan® stages. With a large travel range, it can accommodate large samples including semi-conductor wafers, photo masks, and printed circuit boards, making it ideal for material science applications. Interchangeable sample holders allow the stage to be used for a wide variety of applications. With high resolution and excellent repeatability the H105F is ideal for high end, material science applications.

Repeatable:

- $\pm 0.7 \mu\text{m}$ repeatability, with the ability to store points for later inspection and analysis.
- $<1 \mu\text{m}$ resolution possible.
- Incorporates IST and stage mapping systems.
- Anti-backlash mechanism with adjustable limit switches.
- Accepts linear encoders, further improving accuracy.

Versatile:

- Controlled via the ProScan® III Control System.
- Travel range 154 x 154 mm.



SPECIFICATION *	H105N2
Uni-directional repeatability**	0.7 μm
Metric accuracy per mm***	0.15 μm
Squareness	70 arc seconds
Travel Range	154 x 154 mm
Minimum Step Size	0.04 μm
Recommended Speed†	24 mms^{-1}
Ball Screw	2 mm
Motor Type (SPR)	200
Encoders	No

* Specifications are based on the Prior method of testing and require the use of a ProScan II or above controller.

** Using a ProScan controller with backlash correction enabled.

*** Measured over the full travel of the stage with IST enabled.

†Can be increased by a factor of 2.

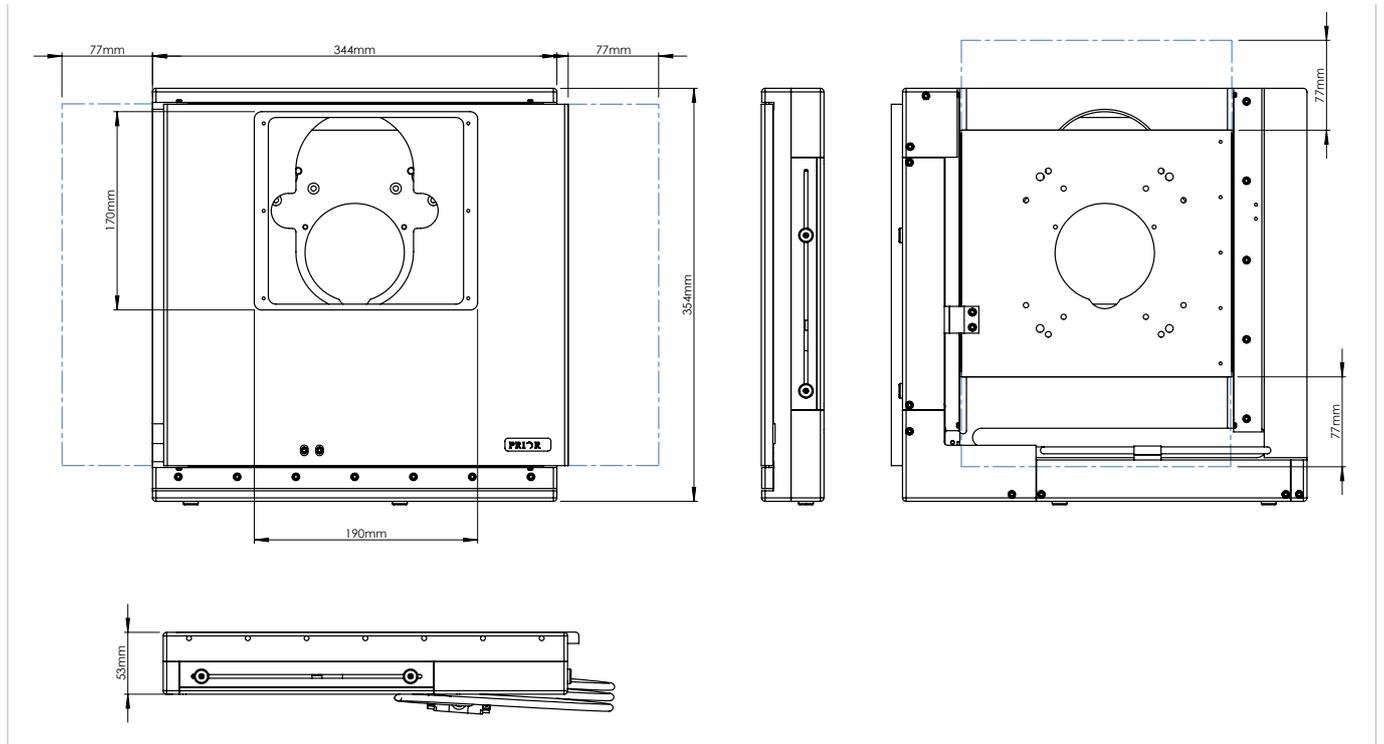
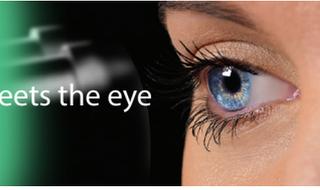
AVAILABLE SAMPLE HOLDERS:

- Glass Plate
- Aluminium Plate
- Breadboard Plate
- Spring loaded wafer chuck for 150 mm wafers
- Spring Loaded wafer chuck for 3" wafers
- Rotatable wafer chuck, rotatable for 100 mm and 150 mm wafers
- Rotatable wafer chuck for 75 mm and 100 mm wafers
- Rotable wafer chuck, suitable for vacuum, for 150 mm wafers

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More to Prior than meets the eye



ORDERING INFORMATION:

PART NUMBER	DESCRIPTION	MOTOR TYPE	ENCODER
H105N2F##	2mm	Standard	No

*Part numbers are up to 8 characters long; microscope specific digits have been removed and replaced with #.
Consult Prior or your local representative for further details on part numbers for specific microscopes.

WORLDWIDE DISTRIBUTION



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