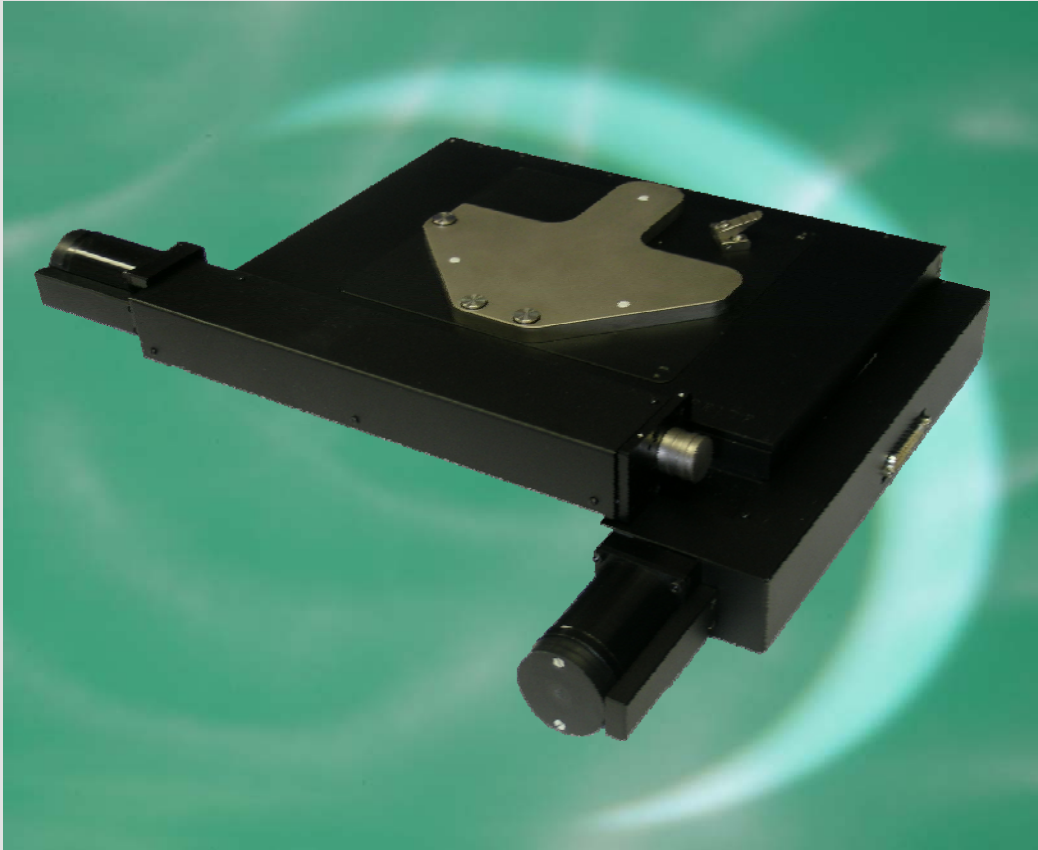


H105 ProScan Upright Stage

154mm x 154mm Travel, Motorised Scanning Stage for larger Upright Research Microscopes.



The H105 is part of a full range of ProScan II stages designed to fit most upright microscopes. Automatically scan large samples including semi-conductor wafers, photo masks, and printed circuit boards, with the ability to store points for later recollection and inspection with unmatched repeatability. The H105 can easily accommodate 6 inch wafers. The large variety of sample holders are released quickly and easily interchanged, we also provide customisable sample holder service. Manufactured to the highest quality with crossed roller ways, zero backlash recalculating ball screws, X and Y limit switches, and high precision stepper motors.

Incorporates Prior IST and Stage Mapping system.

H105 Features:

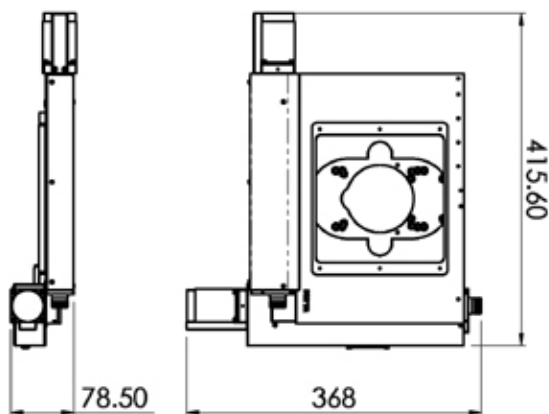
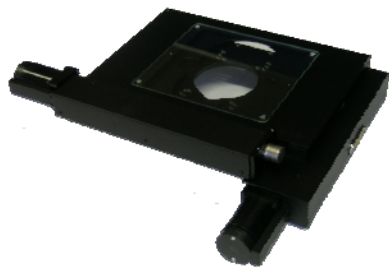
- Travel Range 154mmx154mm
- Variety of Sample Holder.
- <1um Resolution
- +/-0.7um Repeatability and Better
- Interchangeable Sample Holders
- Choice of High Precision Ball Screw
- Anti-Backlash Mechanism
- Adjustable Limit Switches
- Accepts Linear Encoders
- RS232 and USB Control

Options available:

Part Number	Ball Screw size	Motor Type	Encoded
H105/2##	2mm	Standard	No
H105/5##	5mm	Standard	No
HE05/2##	2mm	Standard	0.1um Linear Encoders
HE05/5##	5mm	Standard	0.5um Linear Encoders

Prior motorised stages have a reputation for quality and performance. As an ISO 9001:2000 accredited company Prior equipment is designed and manufactured to the highest quality standards. Prior provides full support and service both direct and indirect through a professional, knowledgeable and extensive global dealer network.

H105 Dimensions



H105 Performance

Intelligent Scanning Technology (IST):

The ProScan II controller and stage include as standard IST which significantly improves the metric accuracy of the ProScan stage ranges.

Stage Mapping:

Utilising IST technology Stage Mapping maps each stages discrepancies from true, whereas IST maps the stage as a whole the Stage Mapping system subdivides the stage into a component grid and each sub-grid has IST applied. For larger stages this further enhances metric error figures.

For more information or to order Stage Mapping with your H105 stage contact your local sales representative.



The performance of the H105 stage is a combination of the high precision engineering in the H105 stage and the high precision stepper motor drives in the ProScan II controller.

***Part No.	* Average Performance	
	**** Uni -Directional repeatability in X and Y.	** Metric Accuracy (per mm of travel)
H105/2##	+/- 0.3um	0.06um
H105/5##	+/- 0.5um	0.06um

H105 Specifications

***Part No.	*Specifications					
	**** Uni -Directional repeatability in X and Y.	** Metric Accuracy per mm	Squareness	Travel Range	Minimum Step size	Recommend speed****
H105/2##	+/- 0.7um	0.15um	70(arc sec)	154x154mm	0.04um	24mms ⁻¹
H105/5##	+/- 0.7um	0.15um	70(arc sec)	154x154mm	0.1um	60mms ⁻¹
HE05/2##	+/- 0.7um	0.15um	70(arc sec)	154x154mm	0.04um	24mms ⁻¹
HE05/5##	+/- 0.7um	0.15um	70(arc sec)	154x154mm	0.1um	60mms ⁻¹

* Requires the use of a Prior ProScan II or above controller and are based on Prior method of testing.
 ** Based on performance with IST enabled, and measured over the full travel of stage.
 *** Part Numbers are 8 characters long, the microscope specific digits have been removed and replaced with #.
 **** Using a Prior ProScan controllers with backlash correction enabled, all repeatability is Uni-directional.
 ***** Recommended speed can be increased by up to a factor of 2.



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