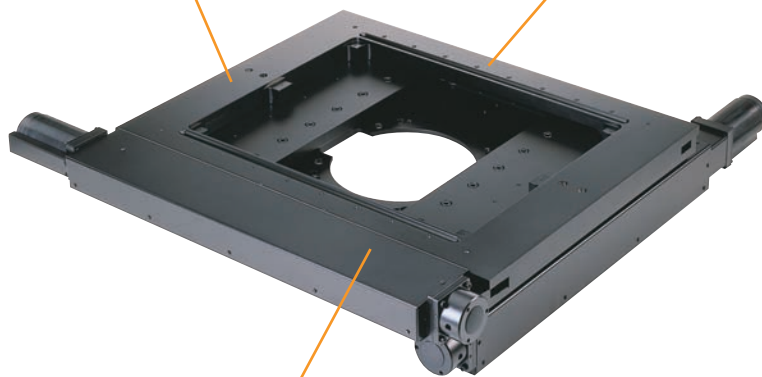


H112 Stage

High Precision Motorized Stage for Upright Microscopes

H112 is available with a 2mm or 5mm pitch ball screw

Travel 302mm x 302mm (12" x 12")



Stages customized to fit virtually any microscope or mount

Now add the highest quality, precision motorized stage to your semiconductor inspection microscope: the Prior Scientific H112. The H112 is perfect for scanning a wide variety of semiconductor wafers, photo masks, flat panel displays, and printed circuit boards. The H112 can easily accommodate 12" (300 mm) wafers, and works with many robot arm wafer loaders. The H112 can also be used for transmitted light applications with a 250 mm x 250 mm transmitted light travel area. A variety of sample holders are available and stage inserts can be customized for many applications.

Features of the H112 stage:

- Travel 302 mm x 302 mm (12" x 12")
- Step size (resolution) of the stage is from 0.04 microns, depending on the controller configuration
- Optional 100nm linear scales provide the highest precision available
- Stages customized to fit virtually any microscope or mount

General Specifications

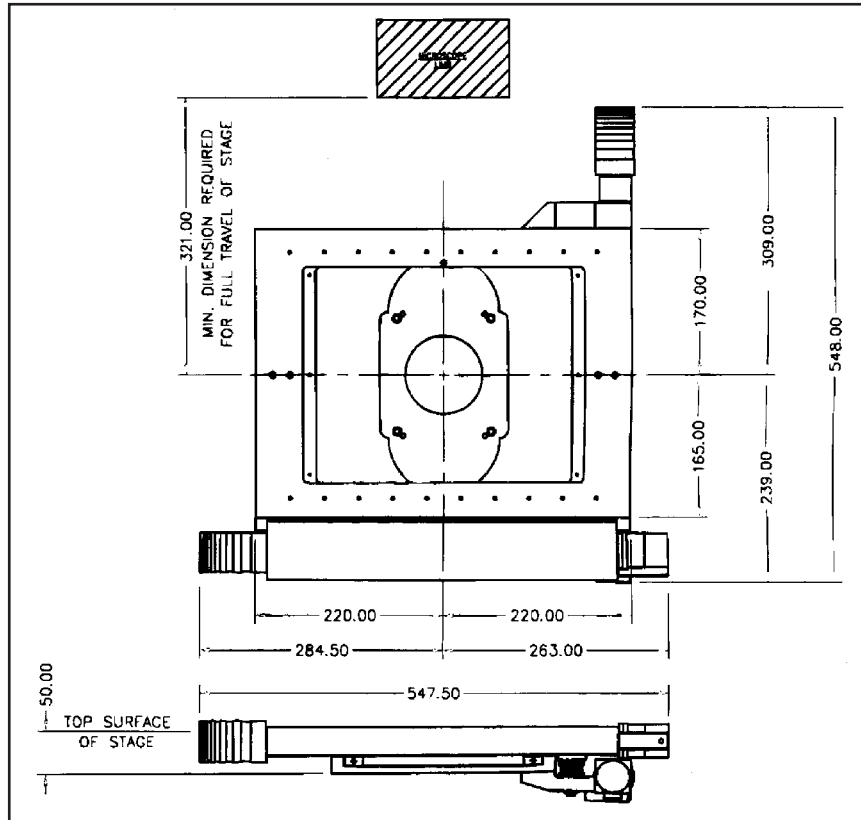
- Travel Range: 302mm x 302mm (12" x 12")
- XY Repeatability*: $\pm 0.7\mu\text{m}$ (micrometer)
- Minimum Step Size (Resolution): $0.04\mu\text{m}$
- Load Capacity: 25kg
- Stepper motor: High precision stepper
- Linear Slides: Precision 4mm bearings

- Drive Screws: Zero backlash, recirculating ball screws; 2mm or 5mm pitch
- Limit Switches: X and Y standard
- Stage Profile: Approximately 50mm with glass plate installed
- Weight: 14.5kg
- Finish: Electro-phoretic black plate

H112 Stage

High Precision Motorized Stage for Upright Microscopes

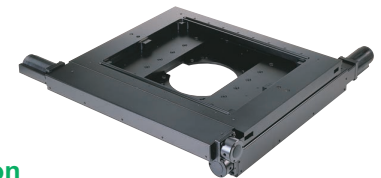
Drawing



H112 Specifications

Specification	Details
Maximum Travel Range	302mm x 302mm
Minimum Step Size	0.04µm
XY Repeatability*	+/-0.7µm
Load Capacity	25kg
Stepper Motor	High precision stepper
Linear Slides	4mm precision bearings
Drive Screws	Zero backlash, recirculating ball screws; 2mm or 5mm pitch

*Specifications valid only if used with Prior Controller.



Ordering Information

Part Number	Description
H112ARNN	Stage with 2mm pitch screws
H112ARN1	Stage with 2mm pitch screws with scales
H112BRNN	Stage with 5mm pitch screws
H112BRN2	Stage with 5mm pitch screws with scales