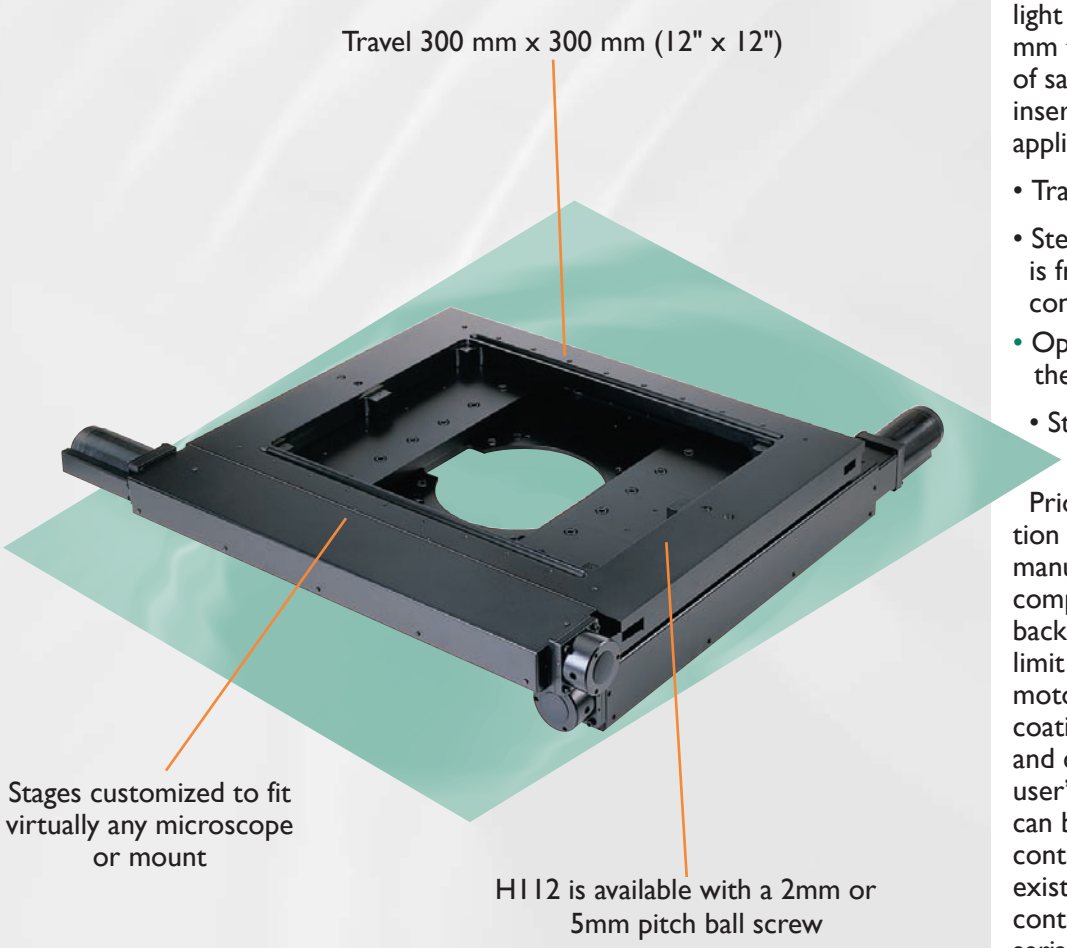
PRIOR
Scientific

H112 Stage

12”x12” Travel, Programmable, Motorized Stepper Stage

Features



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.

- Travel 300 mm x 300 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

Prior stages have a well-deserved reputation for quality and repeatability. They are manufactured using the highest quality components: precision bearings, zero backlash recirculating ball screws, X and Y limit switches, two high precision stepper motors even a tough scratch resistant coating. They are available with standard and custom sample holders to suit the user’s application and requirements. Stages can be driven by the Prior series of motor controllers or compatible systems in existing OEM configurations. The controller can be accessed via RS-232 serial port/USB or with an optional joystick or keyboard. For the H112 and all its products, Prior provides full support and service both direct and indirect – through a professional, knowledgeable and extensive dealer network.

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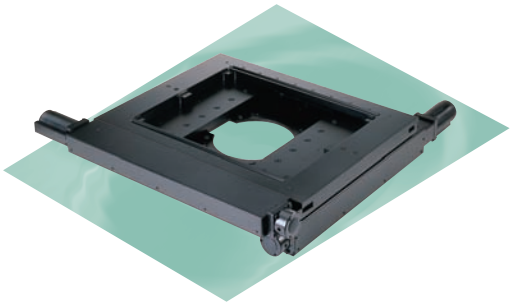


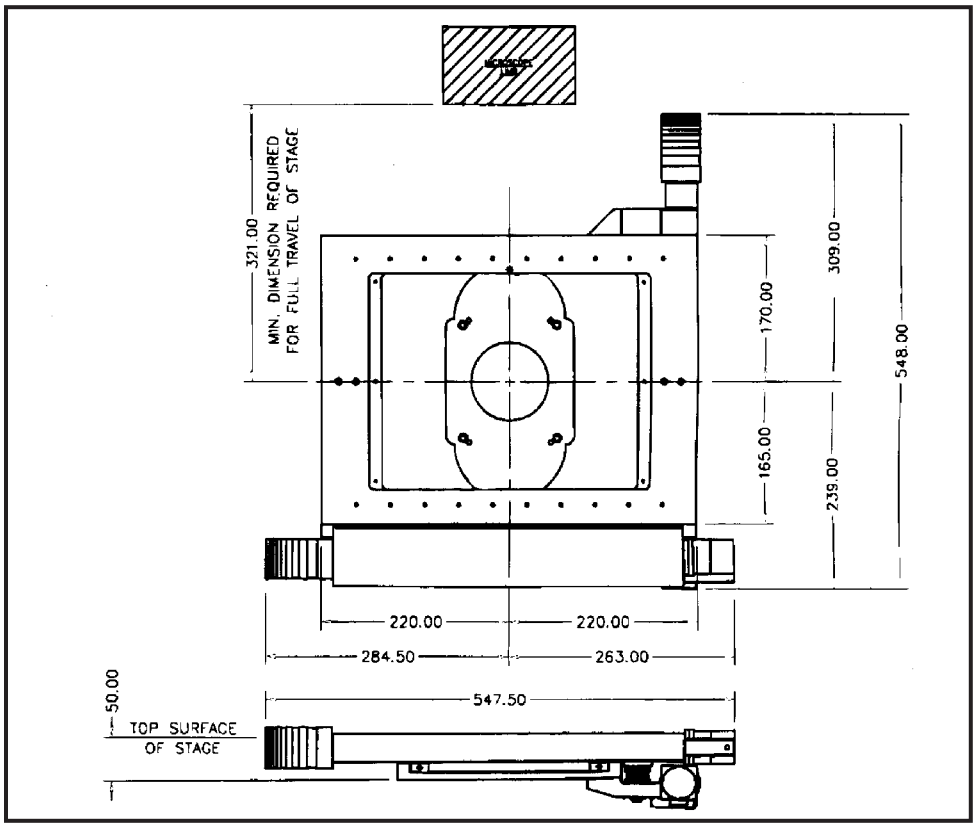
12"x12" Travel, Programmable, Motorized Stepper Stage for Upright Microscopes

Standard Sample Holders

H221	Glass Plate
H233	Standard Aluminum Plate
HWC30S	Chuck, Wafer, Rotatable with steps for 200 mm and 300 mm Wafers
HWC30V	Chuck, Wafer, Rotatable, with vacuum for 300 mm Wafers

Ordering Information

H112ARNN	Stage with 2 mm pitch screws and step motors
H112BRNN	Stage with 5 mm pitch screws and step motors
H112ARN1	Stage with 2 mm pitch screws and 0.1µm linear scales
H112BRN2	Stage with 5 mm pitch screws and 0.1µm linear scales



Dimensions in millimeters.

General Specifications

Travel Range
300 mm x 300 mm (12" x 12")

XY Repeatability*
± 2.0 µm (micrometer)

Minimum Step Size (Resolution)
0.04 µm

Load Capacity
25 kg (55 lbs)

Motors
High precision stepper

Linear Slides
Precision 4 mm bearings

Drive Screws
Zero backlash, recirculating ball screws; 2 mm or 5 mm pitch

Limit Switches
X and Y standard

Stage Profile
Approximately 50 mm (2.0") with glass plate installed

Weight
14.5 kg (32 lbs)

Finish
Electro-phoretic black plate

* Specifications valid only if used with Prior controller.

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