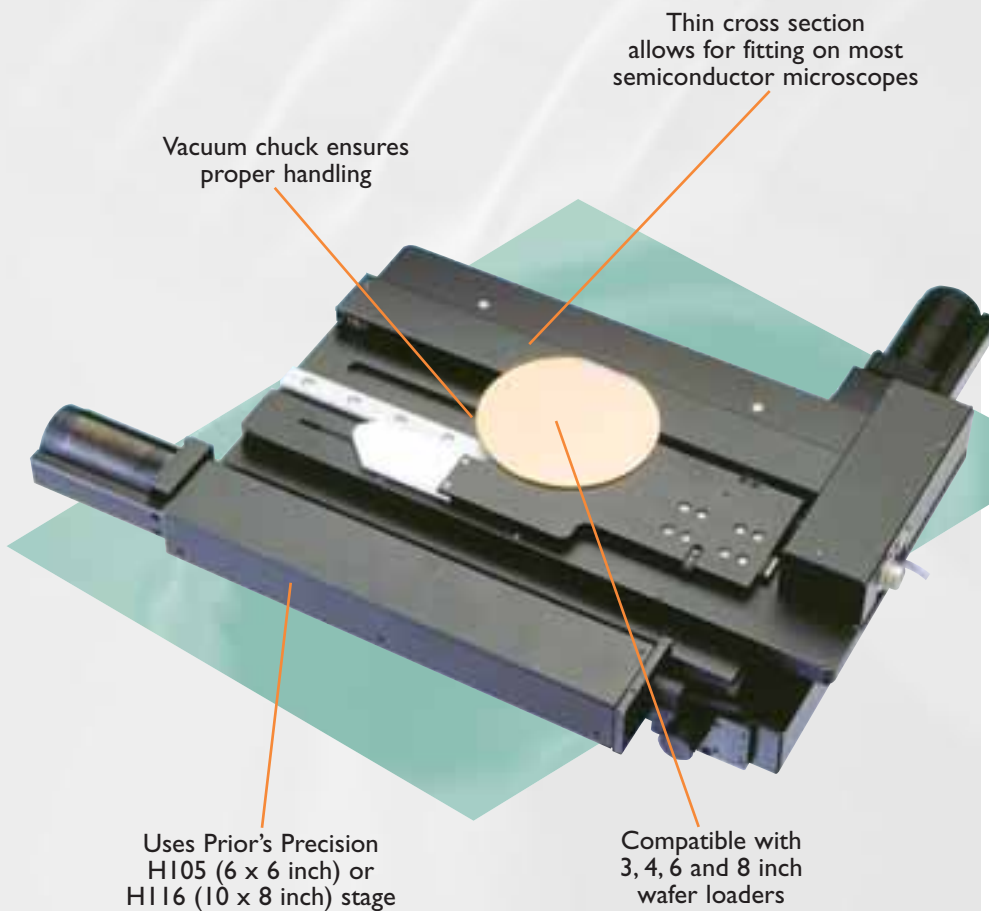


Motorized Semiconductor Wafer Shuttle Stage

PRIOR
Scientific

For Nikon & Olympus Wafer Loaders

Features



The Prior Scientific motorized Shuttle Stage is designed to be used with the Nikon and Olympus wafer loader systems for 3, 4, 6, and 8 inch wafers. The system greatly reduces operator fatigue while increasing inspection accuracy and repeatability.

In operation, the Shuttle System automatically moves to the correct load position and activates the loader switch, notifying the loader that the shuttle's wafer chuck is in position to receive the wafer. After the wafer is transferred to the shuttle, the system senses the vacuum change and retracts the shuttle, moving the wafer to a pre-defined position (home). From this point the wafer can be scanned using the joystick or a programmed pattern for totally automated inspection.

The Shuttle Stage is used in conjunction with Prior's Touch Screen Keypad. This keypad allows users to quickly and easily set up and store inspection patterns and other stage parameters.

The system also has several features that insure smooth, error free operation:

- Power-up initialization procedures set the home positions of the X,Y, and shuttle axes.
- An optical sensor ensures that the stage is in the correct position before it allows the shuttle to move to the load position.
- A pressure sensor allows for the automatic retrieval of wafers to begin analysis.

General Specifications

Power	Universal mains input 85-265 VAC, 50-60Hz
Control Options	Joystick, Touch Screen Controller, and RS232 ASCII command set
Computer Interface	RS232C
Communication Protocol	8 bit word, 1 stop bit, no parity, no handshake, baud rate of 9600, 19200 or 38400
Step Size	As small as 0.04 μ in XY; 0.002 μ in Z
Wafer Sizes	Accepts 3, 4, 6 and 8 inch wafers
Controller Dimensions:	350mm x 215mm x 98mm



Shuttle Stage



Shuttle Stage in load position

Shuttle Stage Accessories



Shuttle System is shown in the load position with a H29XY4 Controller, CS152KB Touch Screen Keypad and a CS152V2 Joystick.

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Specifications subject to change without notice.