


[Company](#) [Products](#) [Support](#) [News](#) [Careers](#) [Contact](#)
[Quick Navigation](#)

#### Die Sorting Systems

1200  
1300  
1046  
1044  
1000  
1010  
2010  
3010

#### Wafer Probers

260/860  
680e/880e  
890e  
Micropositioners

## Products

### WAFER PROBERS

#### 680e & 880e SEMI-AUTOMATIC PROBERS

The model 680e X-Y stage accommodates up to 150mm diameter wafers, while the 880e handles up to 200mm. The X-Y stages for both units are motorized with a .00025 (6.25  $\mu$ m). Both Z stages have a fixed travel of .012 inches (.3mm) and is vacuum control operated. A micrometer provides adjustable probe tip over travel. A manual theta control, located below the vacuum chuck, offers quick and easy adjustment.

The units feature ergonomically designed operator controls, with an eye-level 80-character, 1-inch x 8-inch display. The software control is menu driven and has three modes of operation (auto, manual and external). The software also includes a diagnostic mode for quick identification of system status.

Units include interface ports for TTL, IEEE-488 and R-232 communications. Probers can be setup to operate in "hand shake" mode with a tester, or as slave to tester. A computer can function as master, with the prober and tester as slaves. Interface commands can be set externally for "lights out" operation.

The systems accommodate both stereo view optics and video monitors. The probers come standard with two inker ports and two edge sense ports. Also standard is the 4.5-inch probe



**MODEL 680e**



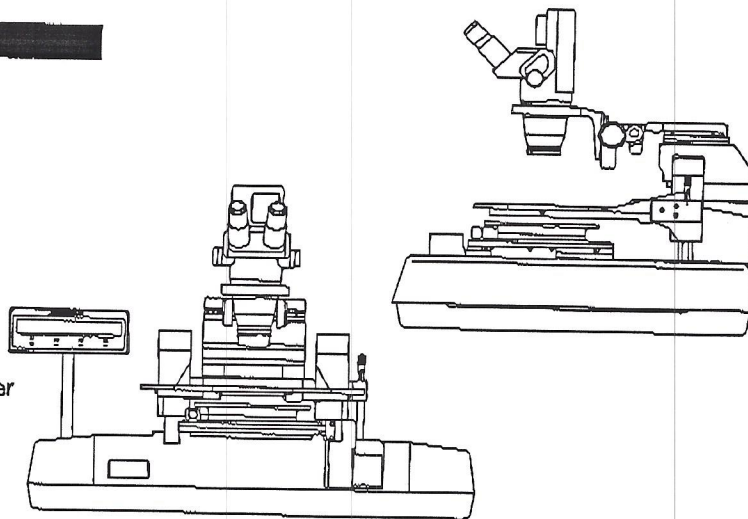
**MODEL 880e**



# MODEL 680e 6" SEMI-AUTOMATIC PROBE STATION

## STANDARD FEATURES

- Microprocessor based modern electronic control
- Ease of maintenance and high reliability
- 6.25" X and Y stage travel
- Electronic inch/mm X,Y, conversion
- External control via RS232 and IEEE-488
- IEEE, RS232 and TTL tester interfaces
- Menu driven keypad data entry setup via 80 character florescent display
- Built-in diagnostic for machine status
- Standard 4.5" card holder Included



## SPECIFICATIONS

### X-Y Stage

Wafer size .....	Up to 6"(150mm)
Stage travel .....	6.25"
Travel speed X axis .....	4.55"/sec. (115mm/sec.)
Travel speed Y axis .....	4.55"/sec. (115mm/sec.)
Indexing range .....	0.0005" to 6"
Accuracy .....	(±4µm)
Repeatability .....	(±3.5µm)
Resolution .....	(4µm) nom.
Theta Adjustment .....	± 15°

### Z Stage

Vacuum Actuation with Programmable Delay	
Micrometer adjustment for probe tip over travel position	
Total Travel .....	0.012"(.3mm)

### Utilities

Electrical .....	90-260 vac 50/60 Hz, 200 watts max
Vacuum .....	18-25" Hg

### Physical Dimensions

Size .....	24" wide x 27" deep x 24" high
Weight .....	110 lbs

## OPTIONS

### Microscopes

Leica StereoZoom 4® with fluorescent illuminator .....	to 60X
Olympus SZ4045, with coax illuminator .....	to 220X
Mitutoyo FS-60 .....	to 2000X
A-ZOOM™ .....	to 8000X

### Microscope Mounts

Fixed .....	Used with small die or low mag. applications
Vacuum lock; .....	Fast X-Y positioning over 4" x 2" surfaces (100mm x 50mm) Used with low magnification applications
Micrometer .....	Allows fine 1" by 1", X-Y positioning (25mm x 25mm) Used with high magnification applications

### Hot Chucks

Temptronic, ThermoChuck® Systems	
ULTRA COOL.....	Thermal isolation kit

### Other Options & Accessories

Top chuck, broken wafer, nickel or gold	
Color or B & W CCTV systems	
Manipulators & Probes	
Edge connectors; 48, 70, 88, 128 pin	
Inker: Fishline & Xandex cartridge	