

# PS4L Fully Automatic System

- ◆ 50 mm to >300 mm Versions
- ◆ Modular adaptive hardware and software architecture
  - ◆ All components—stages, chucks, optics, end effectors—are interchangeable
  - ◆ Completely field upgradeable
- ◆ Portable MHU—undock, move and dock to any PS4L Semiautomatic system to add automation
- ◆ Comprehensive portfolio of optional accessories and upgrades

## MATERIAL HANDLING UNIT (MHU)

- ◆ Dual End Effector
  - ◆ Handles wafers, frames, trays of chips and substrates
- ◆ Cassette Holders
  - ◆ Two cassette holders with three point leveling
- ◆ Plexiglass Safety Enclosure
  - ◆ Dual doors for loading & unloading
  - ◆ Safety Interlock prevents door opening during operation
  - ◆ Removable Panels
- ◆ Pre-aligner
- ◆ MHU Control Electronics
- ◆ Vibration Isolation Table with Casters for easy placement



## PROBE SYSTEM

- ◆ Compound microscope with variable auto focus and zoom using a single objective
- ◆ PILOT Control Software for Wafer Map, Auto Alignment and test equipment integration
- ◆ Inker assembly supports inkers and sensing probes
- ◆ Manual microscope movement with 50 mm X,Y,Z travel. Pneumatic Z.
- ◆ Large platen surface with removable front panel accommodates individual manipulators and probe cards
- ◆ Programmable software/joystick-controlled precision stage
- ◆ PS4L Control Console
  - ◆ PILOT Control Software
  - ◆ Stage Motion Control Electronics
- ◆ Vibration Isolation Table

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