

All Products

**Innovative Products
for Semiconductor Processes**

Vacuum wands

- Cordless portable wands
- Portable wands
- Vacuum wand sets
- Vacuum tips
- Vacuum handles
- Vacuum coil cords
- Wand holders
- Small device



Wafer transfers

- Manual wafer transfers
- Automatic wafer transfers
- SafeGuard wafer transfers



Wafer aligners

- Automatic notch aligner
- Automatic flat aligner
- Manual notch aligner
- Manual flat aligner
- Economy flat aligner



Wafer picks

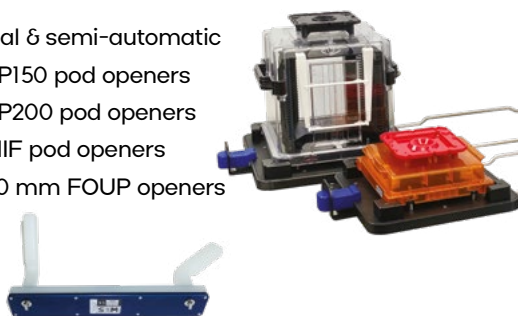
- Edge wafer picks
- Chemistry wafer picks
- Taiko® wafer picks



Pod openers

Manual & semi-automatic

- RSP150 pod openers
- RSP200 pod openers
- SMIF pod openers
- 300 mm FOUP openers



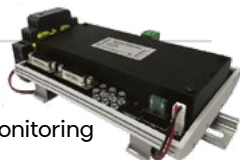
Wafer sorters

- 1- cassette sorter
- 2- cassette sorter
- 4- cassette sorter



Smart sensors

- Alignment drift monitoring
- Motor and bearing wear monitoring
- Fan failure detection



Transport bags

- 300 mm FOSB storage and shipping
- 200 mm wafer shippers
- 150/100 mm wafer shippers
- Various component or custom size available
- LDPE bags



Process cassettes & boxes

Material:

- PP
- PTFE
- PFA
- PEEK



Wafer shipping boxes

- Wafer shipping boxes
- Vacuum formed shipping boxes
- Process boat storage boxes
- Wafer canisters
- Wafer jars



Single wafer shipping

- Clamshell-style shippers
- Coin-style shippers
- Vacuum formed shippers



Metal cassettes

- Aluminium cassettes
- Stainless steel cassettes



Wafer flex frames

- Plastic flex frames
- Metal flex frames
- Single flex frame shippers
- Multi flex frame shippers



Grinding & dicing

- Film applicator/remover
- Film frame mounters
- Flex frames
- Flex frame shippers
- Hoop rings
- Dicing tape
- Die matrix expanders
- UV curing systems



Wafer inspection & presenting

- Manual single wafer presenters
- Auto single wafer presenters
- Wafer ID escalators
- 5-wafer presenters



Cleanroom clothes

- Coveralls
- Hood bands
- Boots
- Mouth masks



Cleaning & etching

- Spin process stations
- Megasonic cleaning
- Process baths: PTFE, PVDF, PP
- Quartz baths
- Single wafer processing holders
- Table top etching system



Heaters

- Inline heater
- Immersion heater
- Stand-alone DI-water heater (incl. Helios replacement)
- Cabinet heater
- Tank heater
- Heat exchangers



Flow & pressure control

- Flow sensors
- Flow switches
- Flow meters
- Flow controllers
- Pressure sensors
- Quick connectors



Filtration

- Capsule filters
- Chemical filters
- Disposable filters
- Liquid filters
- Filter cartridges
- Membrane filters
- Water filter cartridges



Monitoring KxS

- Wet chemical concentration monitor



Process boats

- PFA, PTFE, high or low profile
- Customized solutions available



Spare parts

To extend part lifetime, reduce PM frequency, decrease qual time, ease installation, and ultimately reduce costs.

- Robot components & bearings
- Wrist assemblies
- Fabrication & consumables



Valves

- Air cylinders
- Check valves
- Plug valves
- Pneumatic valves
- Solenoid switch valves
- Stop valves
- Manifold valve blocks



Tubing & Pillar fittings

- PFA tubing
- Pillar PFA fittings



Spin processors

Up to 450 mm

- Indeck wafer spin processor
- Tabletop spin processor
- Spin processor with megasonic cleaning



Pumps

- Membrane pumps
- Magnetic rotary pumps
- Bellow pumps
- Metering pumps
- Dispense pumps
- Pump controllers
- Double diaphragm pumps



Polishing Mipox

- Edge polish system
- Edge polish tape



Polishing service Mipox

- Edge polishing
- Cleaning
- Permanent bonding
- Surface polishing
- Wafer re-sizing



Tool - refurbishment

Semitool

- SAT
- SRD
- SST



PFA parts

- PFA pressure vessel
- PFA storage vessel
- PFA aspirator
- PFA static mixer
- Nitrogen spray guns
- DI water spray guns



Testing Mipox

- Probe card cleaning sheets
 - BC3 type
 - PET type
 - SWE type
 - PF3 type



Saesol pad conditioners

- CMP pad conditioners



Filtration

- CMP slurry filters



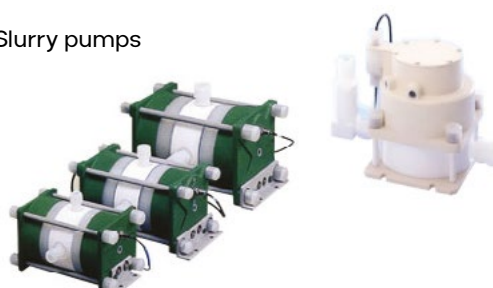
Malema flow controllers

- Slurry flow controllers



Pillar Pumps

- Slurry pumps



Retaining rings

- Retaining rings



Spare parts

- Pasco membranes



Slurry mixing cabinets

- Customized solutions



Monitoring

- Inline CMP slurry monitoring KxS



Smart sensor CMP

- Drain flow monitoring
- Flow monitoring
- Water & chemical detection
- Motor and bearing monitoring
- In-line and non-contact flow measurement
- Real-time down-force monitoring
- Data visualization and alert notification



Coating & developing

Up to 300 mm

- Tabletop spin processors
- Indeck spin processors
- Spin process stations
- Spin processor systems



Ultrasonic spray coating

- Spray coating systems



Maskless lithography

- Direct laser writers - NanoWriters
- Micro μ LCD printer



Hotplates

Up to 300 mm

- Precision hotplates



Midas mask aligners

- Soft contact aligners
- Hard contact aligners
- Proximity aligners
- Lens less mask aligner



UV exposure

- UV light sources



Photomask handling

- Mask pick horizontal offset
- Mask pick side grip



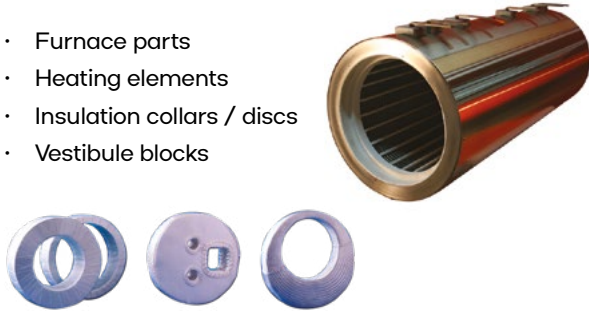
Reticle storage

- Nikon - canon reticle boxes
- Reticle storage boxes



Diffusion Furnace Parts

- Furnace parts
- Heating elements
- Insulation collars / discs
- Vestibule blocks



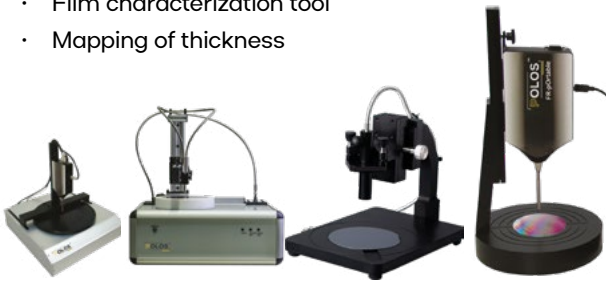
Atomic Layer Deposition

- ALD table top & stand-alone production tools



Layer thickness measurement

- Film characterization tool
- Mapping of thickness



Ultra-pure gas

- Ultra-pure gas filters
- In-line gas heaters



Smart sensor

- Pressure and flow monitoring
- Heating wire resistance monitoring
- Humidity and temperature monitoring
- Mechanical wear and failure monitoring
- Mass flow controller performance monitoring
- Alignment drift monitoring



Deposition systems

- CVD & RIE
- Sputter
- Thermal boat evaporator
- E-beam evaporator



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