



Product Information

Flexi-PCS™

PHOTORESIST SPIN PROCESSING SYSTEMS



ALL SYSTEMS:

- Small Footprint
- Color LCD Touchscreen
- One or Two Spin Modules
- Unlimited Process Storage Capabilities
- Remote Data Collection and Control
- Non-Contact Optical Centering
- Stacked Thermal Modules
- Multiple Size Substrates Without Change
- All Servo Motion Control
- Process Substrates to 200 mm
- Proven Modular Design
- Ultra High Reliability

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WHEN MANUFACTURING EXCELLENCE IS THE DRIVER!

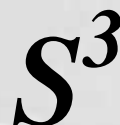
COAT DEVELOP BAKE SCRUB

S-Cubed offers long proven process capability in combination with the most up to date control and software capabilities. New control technology has enabled a substantial reduction in cost, permitting *S³* to offer new equipment at costs that often are lower than used or rebuilt equipment, while offering superior process capability, reliability and new equipment warranty. The **Flexi-PCS™** provides the highest in performance, not in spite of its low cost, but because of it... *intelligent application of technology while at the same time lowering cost.*

- **Excellent Process Control**
+/- 1 rpm, +/- < 0.5% thermal, +/- 0.001" three-axis position control
- **High Reliability**
Demonstrated 1000 hours MTBF
- **Small Size**
Typical system with two spins, four thermals and two cassettes is less than 1 Meter²
- **Granular Modularity**
Get what you need when and as you need it
- **Low Cost**
Fewer parts for lower cost and improved reliability

The **Flexi-PCS™** utilizes a PC based control system enabling advanced image analysis for wafer positioning and sensing. A suite of servo driven actuators ensure precise closed loop control of all system operational parameters. The application of intelligent control eliminates entire mechanical subassemblies further reducing cost and improving reliability.

For more information on all products including the new **Flexi-PCS™** system, the **TruClean™** double sided scrubbing systems, and **Cyclone™** spin processors, please visit our website: www.s-cubed.com.



Flexi-PCS™ Spin Module

Digitally Controlled Amplifier

- Small, Cool and Efficient

Enhanced Control for Dispenses

- All DC Brushless Servo Motors

Two Programmable Dispense Arms

- Programmable Dispense Height
- Top-Side-Edge-Bead Removal
- Up to Eight Dispense Nozzles
- Solvent Ambient Dispense Cups
- Programmable Static and Dynamic Motion
- Programmable Bowl and Backside Rinses
- Pump, Cartridge and Syringe Dispenses
- Fan Spray, Aspirated, Stream and Low Impact Develop Dispense Options



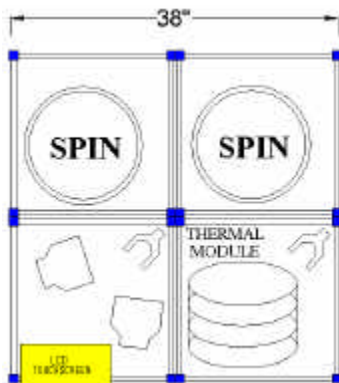
Other benefits include:

- Flat and notch finding and alignment for better azimuthal information and control
- Minimal spare parts requirements as the same motors and amplifiers are used throughout. Part count is minimized for cost and performance reasons
- Multiple wafer sizes can be processed without hardware changes made possible by the high resolution camera used for wafer centering

Flexi-PCS™ Thermal Module



250° C Standard with Option to 450° C
 Programmable Proximity Baking
 Fixed Proximity or Vacuum Pulldown
 N₂ Purge Option for Low Oxygen Baking
 Exhausted 19" x 19" Freestanding Module
 Up to Four Hot/Cold Plates in a Thermal Stack Module
 Temperature Uniformity +/-0.5°C to 150°C, +/-0.5%



Typical Two Spin System with a Thermal Stack Module

More Features:

Robotic Wafer Handling with Z-Axis

Dual Cassette Load Module

Other Available Options:

Prime	Brush Scrub	UV Cure	Storage	Stepper Interface
Temperature and Humidity Control	High Pressure Spray	ULPA Filtration	Optical Edge Exposure	Amine Control

Applications:

Flux Coating /Baking /Cleaning	Alloy Baking	BEOL
Non-oxidizing Reflow	Ultra-uniform Bake (0.1° C) and Chill	
High Pressure Spray Cleaning and Liff-off Processing		
Photoresist	Low K Dielectrics	Spin-On-Glass



Value Engineered Process Systems

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