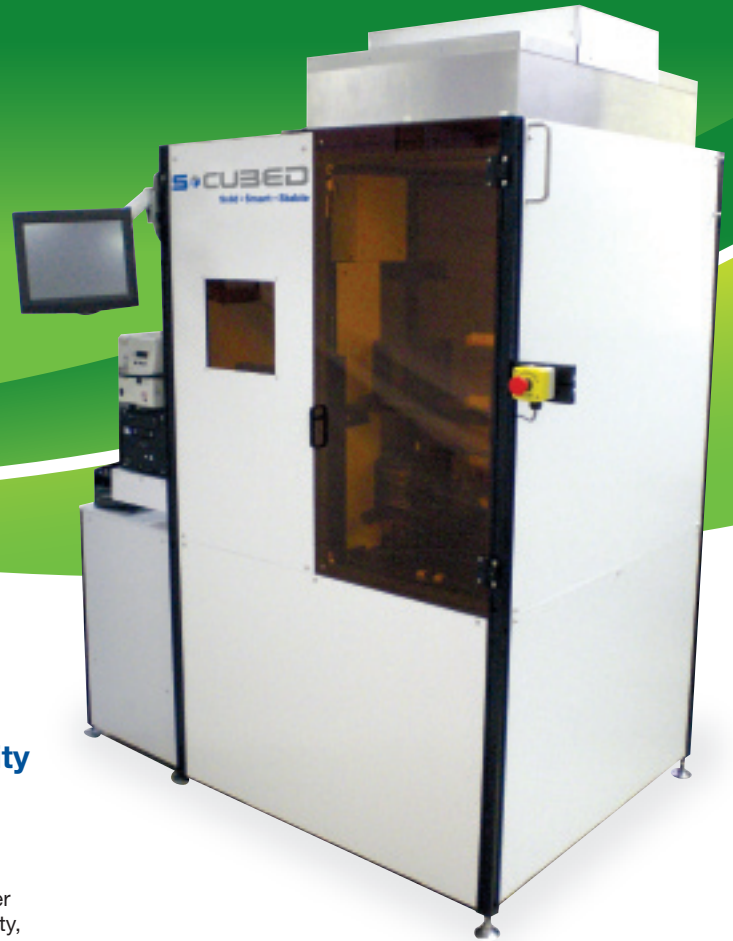


# FLEXI™

Photoresist Spin Processing Systems

COAT ■ DEVELOP ■ BAKE ■ WEE



## 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 S-Cubed 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™ 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

Spin axis is always within one revolution in absolute terms of programmed velocity and trajectory

± 1% temperature uniformity for thermal modules

### High Reliability

Demonstrated greater than 1000 hrs MTBF

### Small Size

Typical system with two spins, four thermals and two cassettes 1 Meter<sup>2</sup>

### Granular Modularity

Get what you need when and as you need it

### Low Cost of Ownership

Fewer parts for lower cost and improved reliability occupying less space

**All process actuators are servo motor driven and programmable**

## All S-Cubed Systems

- Small footprint
- Color LCD touchscreen
- One or two spin modules
- Unlimited process storage capabilities
- Remote data collection and control
- Stacked thermal modules
- Multiple size substrates without change
- Servo motion control
- Process substrates to 200 mm
- Proven modular design
- Ultra high reliability

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

**S CUBED**

**Solid • Smart • Stable**

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# FLEXI™

## Photoresist Spin Processing Systems

### Flexi™ 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, radial, reverse radial dispense
- 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 azimuthal alignment for better 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

### Flexi™ Thermal Module (Hot/Cold Plates)

- Two zone heating for excellent uniformity
- Servo motor driven pins permit user programmable heating and cooling rate
- Servo motor driven pins permit user programmable proximity
- Enclosure configuration eliminates the need for cleaning the hot plate chamber
- Fixed proximity configuration available as required.
- Up to four thermal modules in the "Stack"

#### More Features:

- Robotic Wafer Handling with Z-Axis
- Dual Cassette Load Module

#### Other Available Options:

- Prime
- Brush Scrub
- UV Cure
- Stepper Interface
- Temperature and Humidity Control
- ULPA Filtration
- Amine Control
- High Pressure Spray



### WEE™ (Wafer Edge Exposure)

- Up to 15000 milliwatts per square centimeter exposure energy
- Programmable exposure dose
- Closed loop control of exposure dose
- Exposure dose traceable to NIST
- No need to handle, buy or swap masks. Pattern and wafer size is programmable
- Flat following exposure pattern
- Notched programmable exposure pattern available
- SECS/GEM Factory Automation Available
- System operates by "painting" the edge of the wafer with light
- Handles differing wafer sizes interchangeably and programmatically

### Applications

- Patterned Sapphire Substrates (PSS)
- BEOL
- MEMS
- LED/OLED
- III - V Telecom Materials
- PV Photo Voltaics

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