**Smart Coater 100**

*Smart Coater*’s newly designed spin coaters have been developed specifically for semiconductor and thin film materials R&D, universities and laboratory. Using the same spin drive systems for high end tracks and CNC machines, our spin coater systems provide the best spin coating performance for its precision, repeatability and reliability. It’s easy to set up (Do NOT require N2 for seal purge) and easy to use. Maximum spin speed is 10,000 rpm. Unloaded acceleration speed is up to 100,000 rpm/s with <1 rpm spin accuracy. Maximum spin time is 3,200 seconds/step at 0.1 second resolution.

**Features**

**Broad Chemical Compatibility**
HDPE spin bowl offers great chemical compatibility. PTFE spin bowl is also available for upgrade at low cost. With polymer spin bowl, it becomes so much easier to clean after each spin coating. No more sticky color residues!

**Superior User Experience**
A 7 inch Color Graphic Display makes it comfortable to read and monitor real-time spin status. And touchscreen input interface is convenience for your multi-step program editing.

**Customizable Multi-step Spin Program**
- Up to 100 user definable spin programs, up to 100 spin steps for each program, and up to 5 spin parameters for each spin step can be saved on board.
- Each spin program can be saved in both letters and numbers.

**Easy Access to Dynamic/Static Dispense**
Our spin bowl cover give you access to dynamic dispense. It can be converted to complete cover with optional cover seals for static dispense in sealed chamber. Customers can also add syringe holder for more precise dispensing experience.

**Standard High Performance Drive**
Our spin coaters have powerful 200-300 watts servo motor systems that are used in high-end tracks and CNC machines. These systems are designed for ultimate reliability and years of trouble-free maintenance. STANDARD FEATURE for our spin coaters!

**Integrated Splash Ring**
Substrate is positioned below the spin bowl cover and excess coating material does not contaminate spin bowl cover. Integrated splash ring design to minimize contamination by material splashing back.
Low Profile Conversion
SC100 spin coater can be easily converted to space saving design with optional Flange-Mount Kit. Ideal for situation where a remote controller and low profile mounting are desirable. In addition, the hinged spin bowl cover can be changed to lift-off type for special needs.

Technical Specification

Performance
- Spin speed: 0 to 10,000 rpm (Higher spin speed option available)
- Spin speed acceleration:
  - 0 to 100,000 rpm/s unloaded
  - 0 to 10,000 rpm/s 200-mm substrate
- Spin speed accuracy: <1 rpm
- 0.1-second resolution for step times (3200 seconds maximum step time)
- 100 user definable spin programs on board
- 7” touchscreen interface and color GUI
- PLC Control
- Bidirectional speed control/oscillating chuck
- Iteration spin program (recipe looping)
- In-process/dynamic speed /acceleration control
- Capability of controlling up to four automated dispense systems
- Integrated splash ring design
- Substrate sizes: pieces (< 1 cm) to 200 mm round or 7” square

Reliability
- Indirect spin drive system design to avoid damage by process chemicals and solvents
- Vacuum and lid interlock
- 200 Watts high performance spin drive system
- Stainless Steel Construction
- Standard HDPE spin bowl
- Optional Teflon spin bowl
- Optional nitrogen purge for inert spin coating enviroment

Warranty and Support:
- 1-year limited warranty for parts and labor
- Technical support for the life of the product
- Application process assistance for life of the product

Dimensions:
- 13” W x 19” D x 12” H
- Machine weight: 40 lb
- Shipping weight: 45 lb or more

Utilities:
- Voltage Ranges: 110VAC/240VAC, 50/60 Hz
- Power requirements: 500 Watts
- Vacuum: 20" Hg (for vacuum spin chuck)
Smart Coater 100

PHOTOS

DIMENSIONS