

Apogee® Spin Developer

With DataStream™ Technology

Eliminate process variability from your critical experiments with the Cee® Apogee® Spin Coater. This compact system delivers track-quality performance with its durable, chemically compatible design and fully programmable, user-friendly operation. Guaranteed for years of high performance, the Cee® Apogee® Spin Coater brings unparalleled consistency to your lab or fab.

Serving the Semiconductor Industry Since 1987



BENEFITS

- ETL Listed via Intertek's Nationally Recognized Testing Laboratory
- Compact design for minimized footprint
- Enhanced logging
- Vacuum and lid interlock
- DataStream™ technology
- Durable benchtop design *also available in a flange/deck mountable configuration*
- Optional X-Pro II workstation integrates equipment with an upper exhaust enclosure for process fume control.

BOWL DESIGN

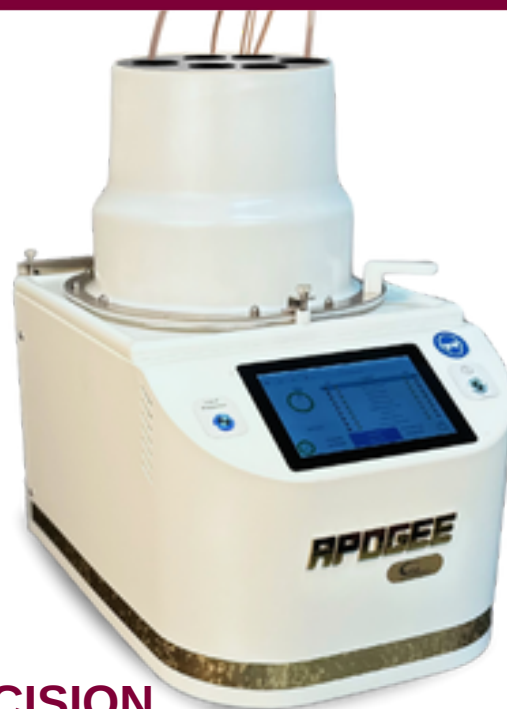
- High-density polyethylene (HDPE) spin bowl for material compatibility
- Optional nitrogen blow-off for more efficient drying
- Integrated drain and exhaust ports

PROGRAMMABILITY

- Full-color touchscreen graphical user interface (GUI)
- Supports unlimited user-defined program steps for each recipe
- 0.1 second step time resolution (9,999.9 seconds maximum step time)
- Spin speeds up to 12,000rpm
- Spin speed acceleration up to 30,000rpm/s unloaded
- Up/download DataStream™ process parameters via native USB and Ethernet ports
- Multiple simultaneous automated dispense capability
- In-process dynamic speed & acceleration control

UTILITIES

- Voltage Ranges: 100-120; 208-230VAC, 50/60Hz
- Power Requirements: 6A (max)
- Drain Port: 3/4" OD
- Exhaust Port: 1" OD
- Vacuum: <33kPa abs
- Exhaust: 100Pa @ 10CMH
- N2/CDA (automated dispense): 70psi (482kPa)



PRECISION

- Substrate sizes: 200mm round; 7" x 7" square (max)
- Spin speed repeatability: 0.2rpm (per standard spin module)
- Spin speed resolution: 0.2rpm (per standard spin module)
- Acceleration resolution <0.2rpm/s
 - 0-30,000 rpm/s unloaded
 - 0-13,000 rpm/s with a typical 200mm substrate
 - 0-3,000 rpm/s with a 6" x 6" x 0.025" photomask in a recessed chuck

RELIABILITY

- Industry leading uptime
- 1-year full warranty on parts and labor
- Complimentary remote technical support for the life of the product
- Application process assistance for the life of the product
- Indirect drive system protects the spin motor from contact with process chemicals and solvents

DIMENSIONS

- 13.25" (337mm) W x 21" (533mm) D x 13.25" (337mm) H
- Machine Weight 40 lb (18.1 kg) *excluding accessories*

DEVELOPER OPTIONS

Spray Dispense

- Precision spray nozzles for controlled application of developer solution or deionized water
- Two available options:
 - 45° side-angle spray, nozzles mounted outside the wafer perimeter spray toward the center of the wafer
 - 90° direct-angle spray, nozzles are mounted directly over the substrate for continuous spray applications

Stream (Puddle) Dispense

- Functions by “streaming” the developer and DI water onto the top of the substrate much like a standard spin coat process

DI Water Rinse

- Top and backside DI water rinse options available
- Used in conjunction with a pressure can dispense or a house DI water supply

DATASTREAM™ TECHNOLOGY: CONNECTING THE SEMICONDUCTOR INDUSTRY

DataStream™ technology gives you access to all of your connected Apogee® manufacturing equipment in one place to track, access, and modify your systems via a web browser. This technology provides manufacturers with the ability to process and visualize data in real time and search and export that data into a number of different formats.

Real-Time Process Information

- Constant feedback of process information for monitoring critical process parameters
- Streamlined interface between different process modules
- Visual cues on process status & health

Environmental Monitoring

- Monitoring of temperature & humidity allows for stricter control of critical processes
- Set preconditions and tolerances for monitored parameters
- On-screen, colored visual cues for deviation from controlled specs

Advanced Recipe Creation

- Seamless switching between basic and advanced recipe creation methods
- Plain-English recipe translation
- Predefined process commands
- Unlimited process steps
- Unlimited recipe storage

Data Logging & Export

- Export data logs into commonly readable formats for further analysis and process troubleshooting
- Increase process efficiency
- Identify process control deviations
- Analyze multiple processes for best known method (BKM) development

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Effective Date: 1/30/2024 Rev C