Apogee™ Spin Coater

With DataStream™ Technology

The Brewer Science® Cee® Apogee™ precision spin coater delivers track-quality performance with revolutionary interface capabilities and the utmost in chemical compatibility in an efficient, space-saving design.

brewer science

Where innovation takes flight!℠

BENEFITS

- New, compact design for minimized footprint
- Full-color, 7-inch touch screen display
- High-density polyethylene (HDPE) spin bowl for maximum chemical compatibility
- Durable benchtop design that can be converted to a flange-/deck-mountable configuration (mountable in the Cee® X-Pro II workstation)
- DataStream™ technology as the standard interface

DIMENSIONS

- 13.25" (33.65 cm) W × 19" (48.26 cm) D × 12" (30.48 cm) H
- Machine weight: 40 lb (18.14 kg)
- Shipping weight: 100 lb (45.36 kg)

PROGRAMMABILITY

- Touch screen interface and display
- Full-color alphanumeric-capable graphical user interface (GUI)
- A virtually unlimited number of user-defined recipe program steps
- 0.1-second resolution for step times (9,999.9 seconds maximum step time)
- Spin speed: 0 to 6,000 rpm (12,000 rpm option at no charge)
- Spin speed acceleration:
  0 to 30,000 rpm/s unloaded
  0 to 23,000 rpm/s with a 200-mm substrate
  0 to 3,000 rpm/s with a 6" × 6" × 0.250" photomask in a recessed chuck
- Connectivity: USB/Ethernet port for communications for uploading/downloading process parameters with DataStream™ technology
- Simultaneous dual automated dispense capability
- In-process/dynamic speed/acceleration control

PRECISION

- Spin speed repeatability: < 0.2 rpm
- Spin speed resolution: < 0.2 rpm
- Substrate sizes: < 1 cm to 200 mm round; 7" x 7" square

RELIABILITY

- Indirect drive system protects the spin motor from contact with process chemicals and solvents
- Vacuum and lid interlock
- Industry-leading reliability and uptime
- 1-year full warranty on parts and labor
- Free remote technical support (phone, email, fax) for the life of the product
- Application process assistance for life of the product

BOWL DESIGN

- High-density polyethylene (HDPE) spin bowl for material compatibility
- Optional stainless or Teflon®-coated steel bowl (for all-stainless-steel construction)
- Optional polyethylene disposable liners available
- Versatile lid design allows process flexibility and repeatability
- Optional nitrogen purge for an inert spin environment
- Integrated drain and exhaust ports

UTILITIES

- Voltage ranges: 100-125, 208-240 VAC, 50/60 Hz
- Power requirements: 655 watts
- Drain port: ¾" OD
- Exhaust port: 1" OD
- Vacuum: 20 to 25" Hg
- Exhaust: 20 to 50 cfm at 0.2" water
- Nitrogen or CDA (for automated dispense): 70 psi

DATASTREAM™ TECHNOLOGY: CONNECTING THE SEMICONDUCTOR INDUSTRY

Brewer Science has revamped its line of Cee® benchtop equipment and has released DataStream™ technology on its new Apogee™ tool line. 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 website or mobile app. This technology will give manufacturers 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 tool types
- 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
- Pre-defined 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