

# Brewer Science® Cee® 300X

## Heavy-Duty-Drive Spin Coater



The Brewer Science® Cee® 300X heavy-duty-drive spin coater combines an intuitive Windows®-based operating system, extremely accurate spin speed control, and a high horsepower drive for aggressive acceleration. These features combine to ensure the elimination of process variables for a large array of process chemicals and applications. The 300X has a state-of-the-art user interface and has been designed specifically for 300-mm and larger LCD squares up to 14" × 14".

### Benefits

- ▶ Onboard Windows®-based PC control for enhanced interface capabilities and connectivity
- ▶ Enhanced lid-lift assist feature (gas spring opens  $\geq 45^\circ$ )
- ▶ New compact design for minimized footprint
- ▶ Full-color, 7-inch touch screen display
- ▶ Drive system (indirect) with highest horsepower in its class
- ▶ Compatible with stand alone exhausted cabinet (chemical storage)
- ▶ Optional X-PRO workstation integrates stand-alone cabinet with an upper exhaust enclosure for creating a mini-environment (monitors and logs data on ambient conditions)

### Dimensions

- ▶ Machine weight: ~115 lb (52.2 kg)
- ▶ Shipping weight: ~250 lb (113.4 kg)
- ▶ Cabinet dimensions: 27.75 in (70.5 cm) W × 34.75 in (88.3 cm) L × 20.25 in (51.5 cm) H

### Programmability

- ▶ PC-controlled
- ▶ Touch screen interface and display
- ▶ 250,000 process recipe programs on board
- ▶ 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 (4,000 rpm and 3,000 rpm option available for additional acceleration capabilities)



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- ▶ Spin speed acceleration:
  - 0 to 30,000 rpm/s unloaded
  - 0 to 23,000 rpm/s 300-mm substrate
  - 0 to 3,000 rpm/s 350-mm × 6-mm round recessed spin chuck
  - 0 to 400 rpm/s 14" × 14" × 1.1-mm in photomask recessed chuck
- ▶ Connectivity: USB/Ethernet port for communications for uploading/downloading process parameters with offline firmware standard (offline recipe number and steps unlimited)
- ▶ System capable of controlling third-party host software for high-end IDI/Cybor/Mykrolis positive displacement pumps
- ▶ Capabilities to simultaneously trigger multiple (up to 16) automated dispense nozzles
- ▶ Bidirectional speed control/oscillating chuck
- ▶ Iteration software (recipe looping)
- ▶ Dispense or component outputs: 50
- ▶ Security: Password protection option available at no charge
- ▶ In-process dynamic speed acceleration control

## Precision

- ▶ Spin speed repeatability: < 0.2 rpm
- ▶ Spin speed resolution: < 0.2 rpm
- ▶ Substrate sizes: < 1 cm to 450 mm round; 14" × 14" 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 the life of the product

## Bowl and Exhaust Hood Design

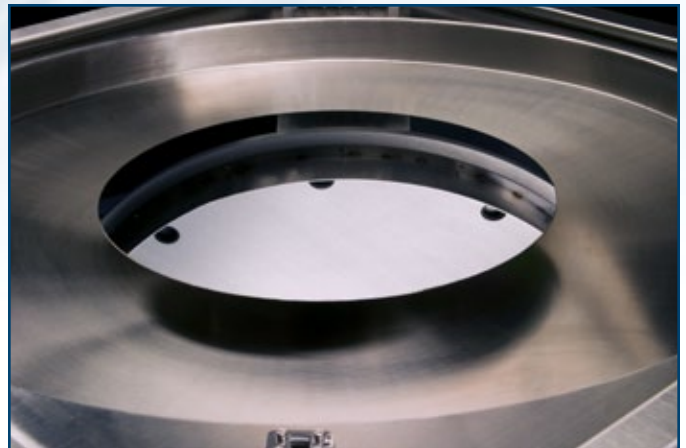
- ▶ All stainless steel construction
- ▶ Optional ETFE-coated spin bowl for material compatibility
- ▶ Optional Teflon®/polyethylene bowl (non-disposable bowl liner)
- ▶ Optional closed and open lid design for process flexibility
- ▶ Optional Teflon®/polyethylene splash ring
- ▶ Drain and exhaust ports located in the bottom of bowl
- ▶ Optional nitrogen purge for an inert spin environment

## Utilities

- ▶ Power requirements: 200-240 VAC, 1350 watts, 7.0 amp
- ▶ Drain port: 1" OD
- ▶ Exhaust port: 1.5" OD
- ▶ Vacuum: 20-25 in Hg
- ▶ Exhaust: 20-50 cfm at 0.2 in water
- ▶ Nitrogen or CDA (for automated dispense): 70 psi



*Cee® 300X spin bowl*



*Cee® 300X spin bowl with 300-mm wafer*

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