COST EFFECTIVE EQUIPMENT | APOGEE® SPIN DEVELOPERS

Why labs and fabs choose the Apogee spin developer

Cost Effective Equipment has built its own process tools since 1987, because the equipment available then couldn't give the repeatability its own work needed. The Apogee spin developer is built on the same spin platform as the Apogee spin coater.

Development time and dispense decide how closely the finished features match the mask. The Apogee applies developer by spray or stream, then rinses and spins the substrate dry under one programmed recipe, in research labs and in low- to mid-volume production.

What sets the Apogee apart

Spray or stream dispense

Spray nozzles sit directly over the substrate at 90°, or outside the wafer edge at 45° as an option. Stream dispense flows developer onto the substrate for puddle processes.

More than one developer

Up to four automated spray or stream nozzles can be fed from pressure cans and run at the same time, so one tool can handle more than one developer chemistry.

Top and backside rinse

DI water rinses the top and back of the substrate to stop development cleanly, from pressure cans or a house DI supply. An optional nitrogen blow-off speeds up drying.

Solvent and aqueous kept apart

An auto-drain separator sends solvent and aqueous waste down separate paths, so positive and negative resist processes can share one tool.

Indirect drive

The motor sits outside the chemical path and drives the spindle indirectly, so developer and solvents can't reach it. The HDPE spin bowl suits most chemistries, and custom PTFE bowls are available.

0.2 rpm speed control

Speed resolution and repeatability are both 0.2 rpm, up to 12,000 rpm on the Apogee 200 and 6,000 rpm on the Apogee 450. Speed and acceleration can change within a recipe.

Touchscreen and process data

A full-colour touchscreen runs CEE's DataStream™ software, with unlimited steps per recipe timed to 0.1 seconds. Every run is logged, and a networked tool can be viewed from any web browser.

Safe and certified

Vacuum and lid interlocks stop a run if the substrate isn't held or the lid is open. The Apogee spin developer is CE marked, and ETL listed through Intertek for North America.

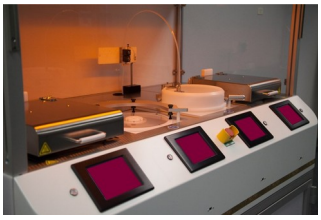
Built to last, supported for life

CEE designs and builds the Apogee in St. James, Missouri, and has served the semiconductor industry since 1987. Every tool comes with a one-year warranty on parts and labour, and CEE's remote technical support and application help run for the life of the product. Some CEE spin coaters and hot plates have been working for 30 years and are still supported today.

Apogee 200 and Apogee 450 at a glance

	Apogee 200	Apogee 450
Substrates	Up to 200 mm round; 6" x 6" square	Up to 450 mm round; 14" x 14" square
Maximum spin speed	12,000 rpm	6,000 rpm
Speed resolution and repeatability	0.2 rpm	0.2 rpm
Acceleration, unloaded	Up to 30,000 rpm/s	Up to 30,000 rpm/s
Acceleration, loaded	13,000 rpm/s, typical 200 mm wafer 3,000 rpm/s, 6" x 6" photomask in a recessed chuck	23,000 rpm/s, typical 300 mm wafer 400 rpm/s, 14" x 14" photomask in a recessed chuck
Dispense	Spray (90° or 45°) or stream Top and backside DI rinse	Fanjet spray, side-angle or stream Top and backside DI rinse
Mounting	Benchtop, flange or X-Pro II workstation	Benchtop, flange or X-Pro II workstation
Footprint (W x D x H)	337 x 533 x 508 mm	702 x 781 x 597 mm
Weight, excluding accessories	18.1 kg	52.2 kg
Power	100-120 or 208-230 VAC, 6 A max	208-230 VAC, 1,440 W (6 A) max

Apogee 450 spin developer



Apogee modules in an X-Pro II workstation

Options worth asking about

Popular additions include AccuScan moving-arm dispense, 45° side-angle spray nozzles and a nitrogen blow-off. Backside rinse, the auto-drain separator, custom chucks and PTFE bowls can be added too. The Apogee also fits CEE's X-Pro II workstation beside spin coaters and bake plates, under one exhaust enclosure.

Buying through SiSTEM

SiSTEM Technology is CEE's appointed distributor for the UK and Europe. We quote and supply the full Apogee spin developer range. Installation and training are arranged and quoted, and delivered by our UK and European after-sales team, who also look after the one-year warranty in territory. When something needs attention, we're the people you call.

Prices depend on the configuration, mainly substrate size and the number of dispense lines, so every system is quoted individually.

Talk to us about your process

Send us your substrate sizes and the developer and rinse chemistry you use, and we'll put together a quote for the right set-up. If your substrate is unusual, CEE's engineers can review drawings or photos with us before we quote.

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