COST EFFECTIVE EQUIPMENT | APOGEE® BAKE PLATES

Why labs and fabs choose the Apogee bake plate

Cost Effective Equipment has built its own process tools since 1987, starting with the spin coaters and hot plates its own work needed. The Apogee bake plate brings track-quality baking to a compact benchtop tool.

Apogee bake plates dry and cure photoresist and other films on wafers, photomasks and square substrates, in research labs and in low- to mid-volume production. Every bake is a programmed recipe, so it runs the same way each time.

What sets the Apogee apart

Even heat across the plate

Uniformity is ±0.3% across the working surface, with temperature set and logged to 0.1 °C. The standard plate runs from ambient to 300 °C, and a 400 °C heater is available.

Contact or proximity baking

Vacuum holds silicon flat for a hard contact bake. Thick films and warped substrates can float just above the plate on nitrogen or lift pins. Photomasks are baked this way too, so the plate never touches the back of the glass.

Smart Pins

Lift pins set the proximity gap under program control, anywhere from 0 to 19 mm in 0.1 mm steps. The height is part of the recipe, so it's the same on every run.

Sized to the substrate

The plate sizes its vacuum zones automatically: 2", 3", 100 mm, 150 mm and 200 mm on the Apogee 200, and 100 mm up to 300 mm on the Apogee 300.

Cool-touch exhausted hood

The stainless steel hood has two layers, so the outside stays cool to the touch, and it's exhausted to carry vapour away. An adjustable gate sets the exhaust draw, and a nitrogen purge is available for an inert bake.

Touchscreen control built in

A full-colour touchscreen runs CEE's DataStream™ software with unlimited programs and steps, each step timed to 0.1 seconds. Recipes load and save through the USB and Ethernet ports.

Process data you can use

DataStream logs plate temperature on every run and can monitor room temperature and humidity. Logs export for records or troubleshooting, and a networked tool can be viewed from any web browser.

Fits your layout

The compact benchtop unit can also be flange-mounted into a wet deck, or fitted in CEE's X-Pro II workstation beside a spin coater and developer. It's CE marked, and certified for North America through TÜV SÜD.

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 300 at a glance

	Apogee 200	Apogee 300
Substrates	Up to 200 mm round; 8" x 8" square	Up to 300 mm round; 12" x 12" square
Automatic plate sizing	2", 3", 100, 150 and 200 mm	100, 150, 200 and 300 mm
Temperature range	Ambient to 300°C (400°C optional)	Ambient to 300°C (400°C optional)
Uniformity	±0.3% across the working surface	±0.3% across the working surface
Bake methods	Contact, vacuum or proximity (N2 or lift pins)	Contact, vacuum or proximity (N2 or lift pins)
Recipe steps	Unlimited, 0.1 s resolution	Unlimited, 0.1 s resolution
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 438 mm	477 x 667 x 451 mm
Weight, excluding accessories	29.5 kg	66.2 kg
Power	100-125 VAC, 13.6 A max 208-230 VAC, 6.3 A max	208-230 VAC, 3,669 W (16.3 A) max

Apogee 300 bake plate

Apogee chill plate

Options worth asking about

Popular additions include the 400°C heater, a nitrogen purge for an inert bake and plastic-tipped lift pins. CEE's chill stations bring substrates back towards room temperature between steps, mounted on the hood or as one- or five-tier units. An HMDS vapour prime version of the Apogee 200 primes wafers for resist adhesion inside a sealed chamber on the plate.

Buying through SiSTEM

SiSTEM Technology is CEE's appointed distributor for the UK and Europe. We quote and supply the full Apogee bake plate 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 temperature range, so every system is quoted individually.

Talk to us about your process

Send us your substrate sizes and bake temperatures, 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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