

EMS SpinCoater Model 4000

Precision Spin Coater for R&D & Pilot Line Production

The EMS SpinCoater Model 4000 provides a simple and economical means of applying highly accurate coatings to silicon wafers, ceramic substances or other flat items at up to 9,000.



Quick Set Up

A spin program is made up of up to 8 time periods of acceleration, spin speed and spin time. Each number can be individually altered and the process re-run until the desired coating thickness is achieved.

Process storage and Recall

Up to 59 processes can be kept in memory giving plenty of capacity for busy laboratories and pilot production lines. Unwanted processes can be easily altered or deleted.

The Model 4000 consists of a bench top spinner and a remote computer control unit linked by a flexible cable.

Bench Top Spinner

Recessed in a bench or production unit, wafers of up to 6" inches in diameter are held by vacuum on a chuck and spun inside an easy to clean polypropylene bowl. An aperture allows fume extraction and a vacuum receiver in series with the vacuum line prevents resist entering the vacuum system. Safety lid, as shown in picture, is required when spinning larger wafers.

Running a Process

Pressing the Green button on the spinner commands the remote control unit to run the process. No further operator intervention is required. An interlock will prevent the process from running if the vacuum is not sufficient to hold the substrate on the chuck.

Flexible Computer Control

The remote control unit can also operate additional equipment such as resist pumps, developer systems and infrared heaters - all customised to requirement.

Features

- Microprocessor control can link to other equipment.
- Ability to repeat a job many times with great accuracy to produce reliable coatings.
- A quick 'press to go' button control for fast repeat coatings.
- The use of simple controls for spin speeds, times and accelerations to reduce set-up time to a minimum.
- Storage of 59 job settings to avoid pointless re-entry of settings.
- Availability of a wide range of quick fit chucks for any sized substrate.
- Fast, easy cleaning to ensure a long and reliable production life.



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