

DOMINUS coater

coat
ST 20i

OPTICOAT

SPRAY COATING SYSTEM

The DOMINUS Coater, OPTicoat ST20i is a new and innovative spray coating system with a revolutionary nozzle concept. The patent pending micro spray nozzle allows, together with a closed process chamber and process approved exhaust system, uniform coatings over high topography surfaces. The OPTicoat ST20i has the ability to scan the spray nozzle in X and Y over a stationary substrate, thus ensuring an ideal coating on all surfaces with different orientation.

The system also includes, as standard, the ability to spin the substrate thus facilitating its use as a conventional high performance spin coat system. This configuration delivers the maximum performance over the widest range of process requirements. In spin coat mode, the spin chamber can also be fitted with an optional, removable covered chuck assembly for the best possible coating performance of non-round substrates.

Along with spin speeds of up to 6,000rpm for traditional spin coating processes the DOMINUS Coater can provide solutions for a wide range of process applications.



DOMINUScoater, OPTicoat ST20i

Features

- wafer size up to Ø 8" (Ø 200mm) or substrate size up to 6" x 6" (150 x 150mm)
- spray coating with various coating medias
- spin coater, up to 6,000rpm/sec
- patent pending micro spray nozzle with self cleaning capability
- X/Y spray nozzle scan over the substrate for optimum uniform coating of all surface orientations
- adjustable position and angle of the micro spray nozzle
- closed, flow optimised, process chamber with automatic see-through door
- easy control of all system parameters via touch screen
- can reduce photo resist usage by up to 90%
- Ethernet interface and Recipe / Operating Software



OPTIONS

- Photo resist dispense systems
- Different sizes of vacuum chucks made of PEEK
- Vacuum pump
- Available with Hotplate as OPTIcoat ST22i

PERFORMANCE

Recipe input with touch screen

- Number of recipes: unlimited
- Number of steps per recipe: unlimited
- Maximum step time: 999sec
- Step time resolution: 0.1sec
- Free programmable outputs: 8

Spin motor

- Spin speed: up to 6,000 rpm
- Spin speed resolution: 1rpm
- Rotation accuracy: ± 2 rpm
- Acceleration: up to 50,000 rpm/sec

REQUIREMENTS

- Voltage: 3x 208 VAC / 60 Hz / 16 A or 3x 400 VAC / 50 Hz / 16 A
- Compressed Air: 8 ± 2 bar (116 ± 29 PSI), Tube OD $\varnothing 8$ mm
- Vacuum (optional): -0.8 bar ± 0.2 bar / 24 in Hg, Tube OD $\varnothing 8$ mm
- Nitrogen: 5–6 bar (72 - 87 PSI), 2x Tube OD $\varnothing 6$ mm

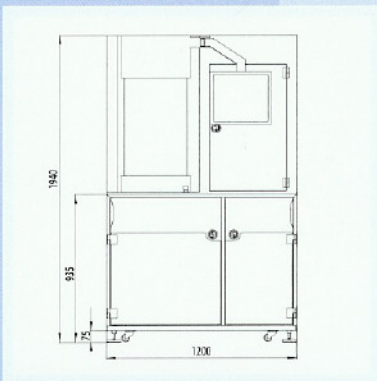
SYSTEM / MODULE DATA

(W x D x H):

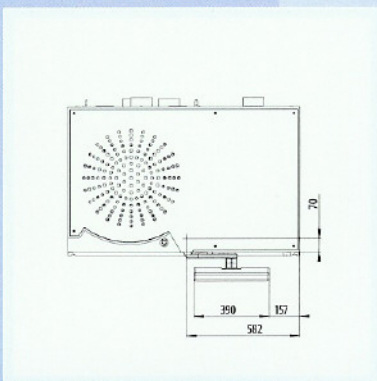
- Stand alone cabinet: approx. 1200mm x 750mm x 1940mm (47.2"x 29.5"x 76.4")
- Process chamber made of PP
- Tool frame made out of stainless steel



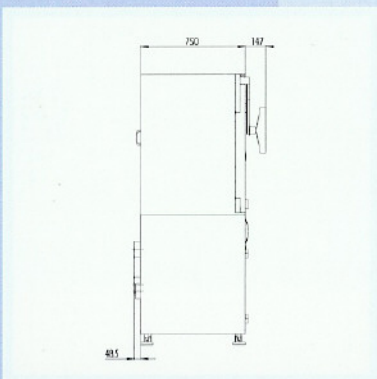
DOMINUScoat, OPTIcoat ST20i



front view



top view



side view

For more details, contact SSE sales support: sales@sse-semi.com

SSE SISTER SEMICONDUCTOR EQUIPMENT GMBH

A **DOVER** COMPANY

www.sse-semi.com