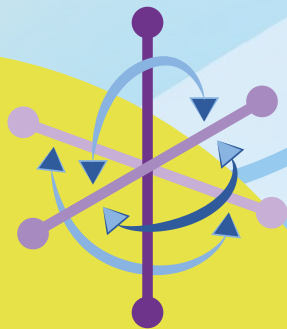


UNIXX SP 760

RESIST SPRAY COATER

FOR FLAT AND CONCAVE
OR CONVEX SURFACES

3D&2D



BENEFITS

- ÷ For flat, concave or convex surfaces
- ÷ Designed for large scale optical devices and different flat substrates sizes
- ÷ 6 axis robot system
- ÷ Up to two ultrasonic spray nozzles with automatic quick-exchange function
- ÷ Integrated heating chuck
- ÷ User-friendly operator interface



UNIXX SP 760
semi-automated 2D & 3D
spray coating system



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2D FOR ROUND WAFER SIZE
from Ø200 mm up to Ø300 mm

2D FOR SQUARE SUBSTRATE SIZE
from 9" x 9" up to 21" x 21"

3D for CONCAVE OR CONVEX SURFACES
for large scale optical devices up to 300mm high

PROPERTIES

Spray coater for all topographies and shapes in one system.

- ✦ Spray coating with heating chuck
- ✦ Manual loading / unloading
- ✦ Up to two ultrasonic spray nozzles with automatic quick-exchange function.
- ✦ Safety sensor system for the process area
- ✦ Integrated heating chuck under the spray coating area
- ✦ 6 axis robot system
- ✦ Syringe dispense system

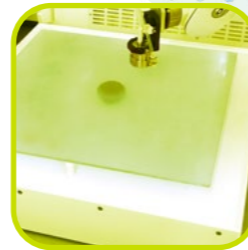
System design:

- ✦ System frame and process cabinet made of powder-coated stainless steel
- ✦ Lockable, transparent doors for process area
- ✦ Emergency Stop Button at systems front
- ✦ Signal lamp with three light sections for visualization of the system status
- ✦ Adjustable leveling feet and transport wheels
- ✦ General design to meet clean room class 10 (ISO 4)

Control unit:

- ✦ Computer with windows (commercial) as controller
- ✦ User-friendly operator interface GUI with 22" touch screen monitor
- ✦ Programmable process parameters (nozzle motion, resist amount, speed and N2 flow)
- ✦ Library function for recipes and flows
- ✦ History function for log file and error tracking
- ✦ User management with password-protected service access
- ✦ Update & backup function via USB or intranet connection
- ✦ Uninterruptible power supply (UPS) support (data storage on SD-Card)

Optional with; PR dispense systems (pumps or syringe)



CONCAVE OR CONVEX (3D) SURFACES, AS WELL AS
THE TRADITIONAL **IN-LINE TECHNOLOGY (2D)** FOR
SUBSTRATES **WITH TOPOGRAPHIC
STRUCTURE.**

NOZZLE EXCHANGE ASSEMBLY

1. Holder device on the robot for up to two ultrasonic nozzles.
2. Automatic change of nozzle type via robot unit.
3. Two drip pans for nozzle cleaning.
4. Drain to waste canister with high-level sensor or to the facility drain.

TECHNICAL DATA (UNIXX SP760)

GENERAL

Substrate size:	from Ø 200mm (8 inch) up to Ø 300mm (12 inch) round wafers, from 9x9 inch up to 21x21 inch square substrates
System frame:	made of powder-coated stainless steel
System housing:	made of powder-coated stainless steel, transparent & lockable glass doors (process areas) and adjustable leveling feet & transport wheels.
Hotplate surface:	made of hard anodized with 20% Teflon

REQUIREMENTS

Power:	400(208) VAC / 3 Phase / N / PE / 50(60) Hz
Vacuum:	-0.8 bar / -600 Torr, tube OD Ø8 mm
Nitrogen:	4 ± 0.2 bar, tube PE OD Ø8 mm
CDA:	8 ± 2 bar, tube PE OD Ø10 mm
Exhaust-process:	1x OD Ø110mm approx. 50-180 m3/h*
Exhaust-cabinet:	1x OD Ø110mm approx. 50-180 m3/h*
Drain:	to waste canister with high-level sensor or to the facility drain

* chemical and process related

DIMENSIONS (WxDxH) approx.

System housing: 1.550 x 1.030 x 1.950/2.490 mm (61 x 41 x 77/198 inch)

**FOR FLAT,
CONCAVE
OR CONVEX
SURFACES**

UNIXX SP 760

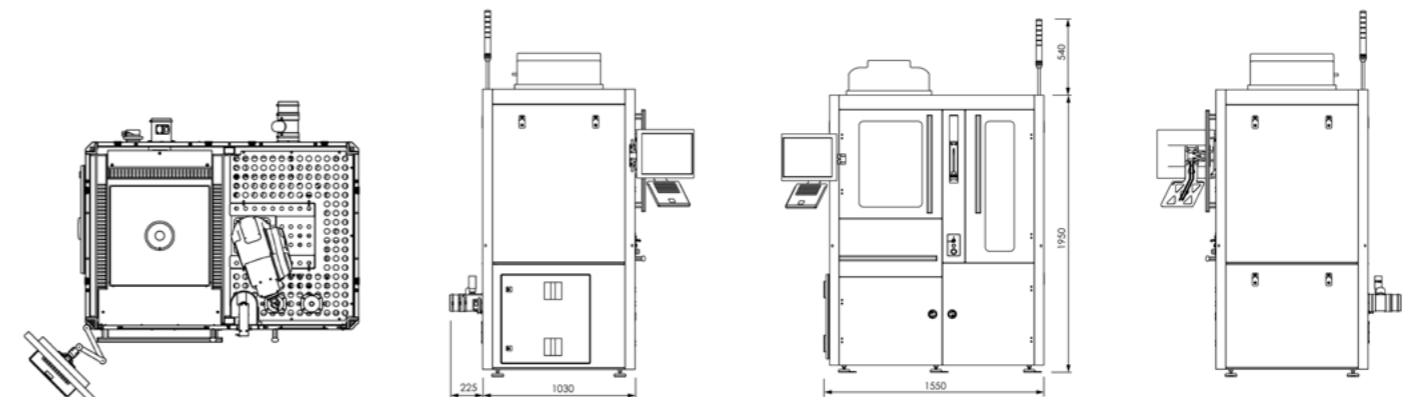
SEMI-AUTOMATIC SPRAY COATER

The spray coating system UNIXX SP760 is a innovative spray coating concept that combines two different spray methods into one system. With the newly developed method of 3D spray technology, for concave or convex (3D) surfaces, as well as the traditional in-line technology (2D) for substrates with topographic structure, we can now coat all topographies and shapes in one system.

The device has an easy to operate user interface with all needed functions.

Our software offers the possibility of programmable process parameters such as nozzle motion, resist amount, speed and N2 flow.

All necessary media supplies such as CDA, N2 and Vacuum can be plugged in via plug-in connections and are controlled by software.





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Version: UNIXX-SP760-spray-coater-datasheet-osiris-210320

Data, design and specification of custom built machines depend on individual process conditions and can vary according to equipment configurations. Not all specifications may be valid simultaneously. Illustrations in this brochure are not legally binding. Osiris International GmbH reserves the right to change machine specifications without prior notice.