CHEMIXX-SERIES

osiris

120

CHEMIXX 1201 AUTOMATIC WET PROCESSING SYSTEM CLEANING, ETCHING OR DEVELOPING

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BENEFITS

- Automated system with one process chamber.
- Areas of application: Cleaning, Etching or Developing
- ÷ Up to three electric media arms
- ÷ Different types of nozzles
- One or double armed robotic substrate handling
- ÷ IO-Station with FOUP or Cassette
- Substrates sizes up to Ø300mm or up to 230 x 230 mm
- ÷ 22" Colour touch screen for easy operation
- ÷ All media flows programmable
- ÷ Vacuum or Low contact chucks

CHEMIXX 1201 (300mm) IO-Station FOUP

1201 CHEMIXX

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CHEMIXX 1201 (300mm) IO-Station cassette

AUTOMATIC LOADING AND UNLOADING SYSTEM **CLEANING, ETCHING & DEVELOPING**

PROCESSING OF NEGATIVE OR POSITIVE RESIST

PROPERTIES

Automated system with one process chamber.

- + Areas of application: cleaning, etching or developing
- ÷ Substrates sizes up to Ø300mm or up to 230 x 230 mm
- ÷ Up to three electric media arms
- ÷ Different types of nozzles & BSR nozzle for DI-Water
- ÷ DI-Water chamber rinse
- ÷ Resistivity PH-Sensor control
- ÷ One or double armed robotic substrate handling
- ÷ IO-Station with FOUP or Cassette
- ÷ Vacuum or low contact chucks
- ÷ External media cabinet for different chemicals with 10 or 40 ltr. canister.

900 900

SYSTEM DESIGN

- ÷ System frame made of powder-coated stainless steel
- ÷ Lockable, transparent door for process area
- + Process chamber made of PP white (optional ECTFE)
- ÷ Emergency Stop Button at systems front
- + Two or more drain diverter (sensor controlled & programabel via recipe)
- ÷ Signal lamp with four 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 (clS)

Osiris standard software clS (cluster software) for automatic systems.

- ÷ Computer with windows (commercial) as controller
- + User-friendly operator interface GUI with 22" touch screen monitor
- ÷ Simple configuration settings of arm movements for different dispense lines.
- ÷ Programmable process parameters (nozzle motion, resist amount, speed and N2 flow)
- + Recipe editor to write, manage and system configure.
- ÷ Recipe storage function on flash drive or memory stick.
- ÷ Library function for recipes and flows
- + History function for log file and error tracking
- ÷ Automatic and engineering mode
- ÷ User management with password-protected service access
- ÷ Update & backup function via USB or intranet connection

Optional: SCES/Gem integration or to any other software management.

CHEMIXX (CL-E OR D) 1201

CLEANING (CL), ETCHING (E) OR DEVELOPING (D)

Single-processing wet system with integrated processing module and robothandling are suitable for applications such as etching, cleaning or for developing process. The system with a programmable exhaust and a well-designed air-flow concept provides best uniformity cleanest surface on the wafer and substrate. The application modules equipped with BSR-nozzle and up to three programmable dispenses arms, offers many different nozzles type options.

I/O-station via Foup for wafers up to 300mm or substrates (mask) up to 9×9 inch, as option we offer also the I/O-station as open style cassette. The in-house user interface has all needed functions e.g., recipe programming, maintenance and a user administration. All necessary media supplies such as CDA, N2, Vacuum and DI-Water can be plugged in via plug-in connections and are controlled by software.









PROVIDES AN EFFICIENT PROCESS **OPERATION**

TECHNICAL DATA CHEMIXX 1201

GENERAL

Substrate size: Motor spin speed: Motor acceleration: Step time: System frame:

Process chamber: Process bowl:

REQUIREMENTS

Power: Vacuum: CDA: Nitrogen: DI-Water: Exhaust process: Exhaust cabinet: Drain:

max. 40.000 rpm/sec*, in 1 rpm/sec steps 1 up to 999.9 sec, in 0.1 sec steps made of PP white (optional ECTFE) made of PP natural *depending on chuck design, substrate weight and load

400(208) VAC/ 3 Phase / N / PE / 50(60) Hz -0.8 bar, tube OD Ø8mm 8 bar, tube OD Ø10 mm 4.5 bar, tube OD Ø10 mm 2-3 bar, OD Ø16.7 mm (3/8") 1x OD Ø110 mm, 50 - 120 m³/h* 1x OD Ø110 mm, 50 - 180m³/h* to waste canister with high level sensor or to the facility drain* *chemical and process related

DIMENSIONS (WXDXH) approx.

System housing: Ext. Media cabinet:

1260 x 825/1.318 x 1.950/2.330 mm (49.6 x 32.5/51.9 x 76.8/91.7 inch) 740 x 650 x 920/1.420 mm (29.1 x 25.6 x 36.2/56 inch)





TYPES OF NOZZLES

Aqueous based chemicals; Chemical processing via:

- 1. Puddle
- 2. Multi-Spray nozzle
- 3. 5-hole puddle nozzle
- 4. Atomizer nozzle
- 5. BSR (Back side rinse) nozzle

Mechanical processing via:

- 1. Brush system (single- or double-sided)
- 2. High pressure
- 3. Megasonic nozzle

- up to Ø300 mm (Ø12 inch) or 230 x 230 mm (9 x 9 inch) max. 6.000 rpm*, programmable in 1 rpm steps made of powder-coated stainless steel, 4 adjustable feet & transport wheels and transparent & lockable glass doors for the process area



LOCATIONS

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