

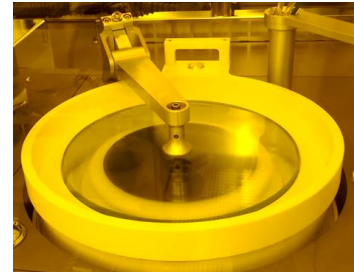
Spin Module SM-200
Optimal choice for
semi-automatic coatings





The **Spin Modules SM-200** are the optimal choice for semi-automatic coating of thin layers. They are used for substrates with no or very low surface structures. All commercial photoresists and coating materials can be coated homogeneously on wafers up to 200mm (8 inches) or 150x150mm (6x6 inch) substrates.

The **RCCT system** (Round-Closed-Chamber-Technology) effectively reducing air turbulence over the rotating substrate and improve the coating uniformity as the atmosphere within the closed chamber becomes more quickly saturated with solvents, so that the resist dries more slowly and results in a more homogeneous coating process with remarkably savings of the consumed medias.



The SM series is convincing due to its high level of uniformity and repeatability, coupled with easy operation and comfortable handling. In order to keep the cleaning effort for the process chamber to a minimum, SAWATEC has developed a comprehensive and good value bowl protector. This bowl protector is easy to remove and dispose of once the process has been completed. Due to the high-quality design, the maintenance effort is minimal. Therefore, the SAWATEC spin modules are preferentially used for laboratories, R&D, pilot projects and institutes.

The high-precision instruments are available both as mobile cabinet and bench-mounted units.

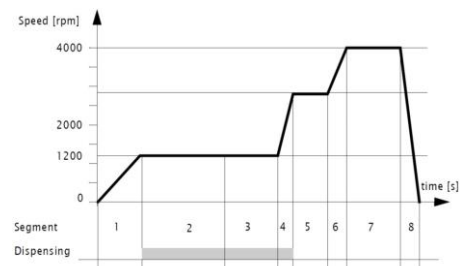
FEATURES (BASIC CONFIGURATION)

- Up to 50 programmes with 24 segments each can be programmed
- Quick start function for repeat processes
- User-friendly process configuration with touch screen panel
- Process parameters: speed, acceleration, time
- Rotational direction can be selected (CW, CCW)
- RCCT system (Round-Closed-Chamber-Technology)
- Dynamic dispense arm prepared for up to 4 media lines
- Manual loading and unloading of the substrates
- Substrate fixation via vacuum and safety interlock protection
- Acoustic signal when the process has finished



PERFORMANCE DATA

- Speed range: 1 to 6'000rpm +/-1rpm (optional 10'000rpm for wafers smaller than 8")
- Difference from set rotation speed to actual value < +/-1%
- Speed acceleration: 0 – 6'000rpm in 0,6 sec.
- Delay: 6'000 rpm – 0 in 0,6 sec.
- Process time up to 9'999 seconds with 0,1 sec. steps
- Dosing time 999 seconds/segment



SPIN CHUCK RANGE

For perfect coating results, the spin chucks are supplied in different sizes, materials and designs. Depending on the application, one-piece or two-piece spin chuck sets with optical centring aid are used. To ensure that the reverse side of the substrate does not become contaminated, it is crucial to select the optimal spin chuck size and specific chuck design. Replacing the spin chucks is very easy and does not require any tools.

- Vacuum chuck specimen
- Vacuum chuck 1" to 3" round
- Vacuum chuck 100mm (4") to 200mm (8")
- Vacuum chuck 100x100mm (4"x4")
- Vacuum chuck 125x125mm (5"x5")
- Vacuum chuck 150x150mm (6"x6")
- Further chucks on request



ADDITIONAL FUNCTIONS (OPTIONS)

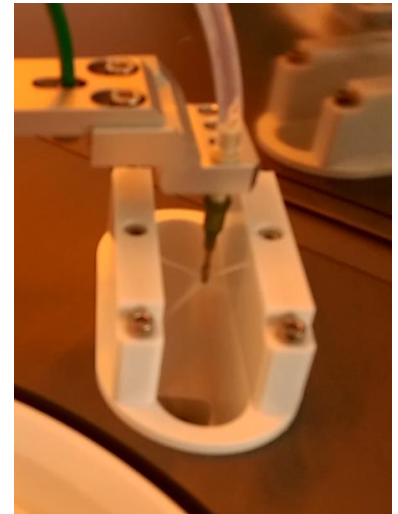
- Automatic cartridge dispensing system, 50ml glass syringe CDS-50
- Top side edge bead removal (EBR circular, EBR circular and linear)
- Automatic nozzle cleaning including solvent pump FP-20
- Additional dispensing line including precision dosing pump GSP-98
- Start/stop foot switch for ease of operation (cable length 1.8m)
- Bowl protector made of PE or aluminium
- Wafer alignment tool 2" – 8" (round)



EBR circular and linear



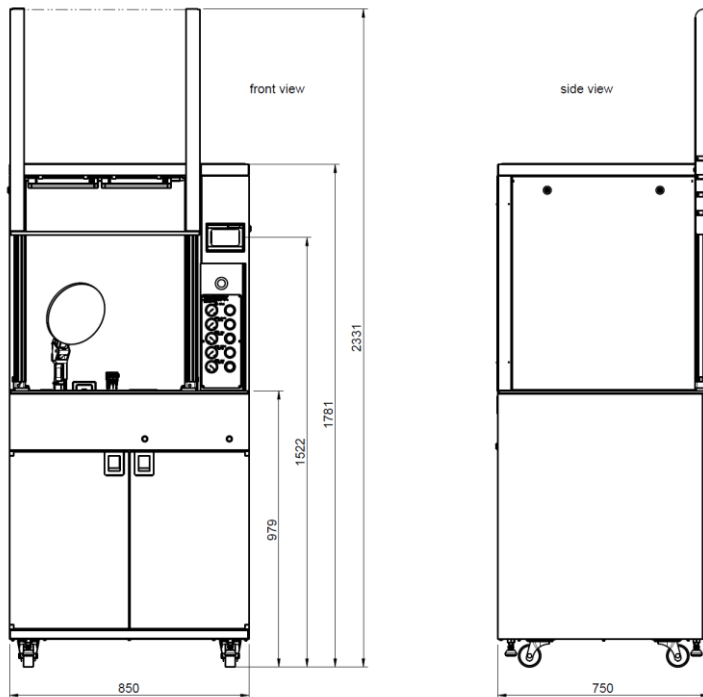
Additional dispensing line with dosing pump GSP-98



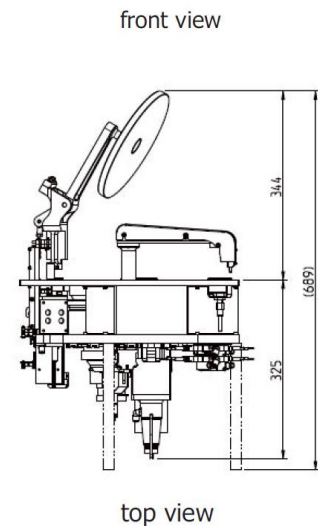
Automatic nozzle cleaning

DESIGN AND DIMENSIONS

- Mobile cabinet made of electro polished stainless steel
- Process bowl made of PETP for high degree of material compatibility
- No photoresist discharge due to integrated splash collar made of PETP
- Glass front door to observe the process
- High-precision, highly dynamic AC servomotor
- Cabinet size: 850 x 750 x 2331mm (L x W x H)
- Weight: approx. 220kg



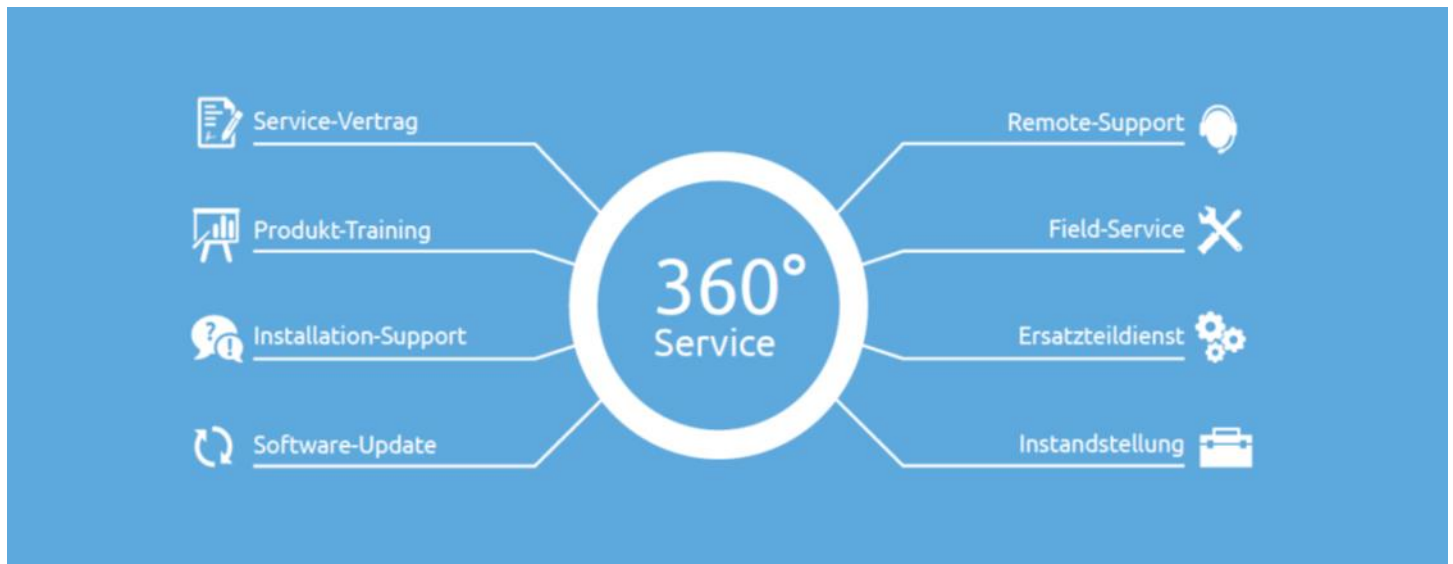
Cabinet



Bench Mounted (BM)

REQUIRED MEDIA

- 230 VAC 50/60Hz 15A
- Plug connector for foot switch
- Technical vacuum, tube Ø6/4mm (-0.8bar)
- Compressed air or N2 tube Ø6/4mm (6bar)
- Exhaust connector Ø76mm (40–60m3/h)
- BM version: drain 2 x Ø 12mm



If you would like a personal consultation or have a specific request, please do not hesitate to call us. Our technical experts will be pleased to help you.

Headquarters Switzerland

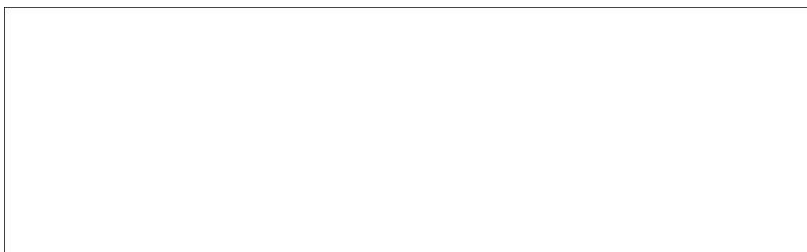
SAWATEC AG
Eschagger 2
CH-9468 Sax
Switzerland

T +41 81 750 44 00
F +41 81 750 44 01
Email: sales@sawatec.com

Sales and Service Center Greater China

Suzhou SAWATEC Semiconductor Systems Co., Ltd.
Room 403-1, Yixin Building, No.88 Jixian Street
Suzhou Industrial Park
CN-Suzhou, Jiangsu 215123
China

T +86 512 87660235
F +86 512 87660239
Email: cn.sales@sawatec.com



SAWATEC
www.sawatec.com