SAWATEC
SWISS HIGHTECH SYSTEMS

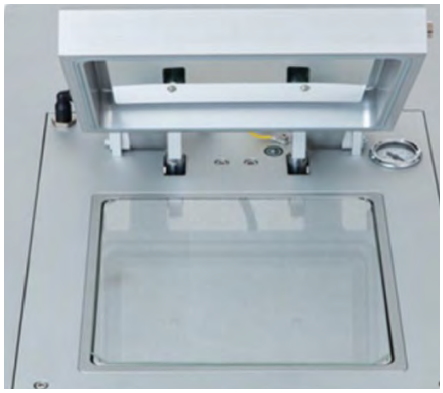
HOTPLATE HP-200-Z

Ultra-high precision soft and hard baking



Wafer Clean & Primer	Photoresist & Soft Bake	Mask Alignment & Exposure	Post Bake & Develop	Etch & Hard Bake	Stripping	Clean & Inspection
Spin Rinser Dryer **Hotplates** (Dehumidifier)	Spin Modules Spray Coater **Hotplates**		**Hotplates** Coolplates Developer	Developer Developer-Etch **Hotplates**	Developer-Etch	Spin Rinser Dryer





The **Hotplate HP-200-Z** was developed for ultra-high precise soft bake and hard bake processes in lithography, in MEMS and similar applications. The temperature range is designed for up to 300 °C by default. The set temperature and the temperature profile have narrow margins, meaning that a high coating quality can be achieved.

The HP series is convincing due to its high level of uniformity and the high-precision process repeatability. It can be used for substrates with a diameter of up to 200 mm and thicknesses of 14 mm at maximum.

The multi-zone heating system ensures very high temperature distribution, which is adjustable for each zone. The hotplate also has a vacuum chamber and can be used as standard for bonding agent applications. The hotplate is covered with protection glass, which makes cleaning easier. Due to the high quality, robust design and easy handling, SAWATEC hotplates are preferentially used in laboratories, R & D and small-scale production.

The ultra-high precision instruments are available as mobile cabinet and bench-mounted unit.

FEATURES (BASIC CONFIGURATION)

- Temperature control with digital target and actual value display
- User-friendly process configuration with touch screen
- Quick start/stop function for repeat processes
- Automatic temperature limit switch, no overheating
- Heating ramp up possible with 24 program steps
- Free programmable heating curve with max. 10 °C/min (25 - 300 °C)
- Free programmable cooling curve with max. 5 °C/min (300 - 40 °C)
- Hotplate with multi-zone heating (9 zones) and with protection glass for easy cleaning
- Easy levelling of the hotplate, prevents discharge of photoresist
- Manual substrate fixation via vacuum
- Manual loading and unloading of substrates
- N2 flushing program controlled, no oxidation
- HMDS priming program controlled, optimized adhesion

PERFORMANCE DATA

- Temperature range: ambient temperature up to 300 °C
- Temperature accuracy: +/- 0.3 °C at 100 °C

ADDITIONAL FUNCTIONS (OPTIONS)

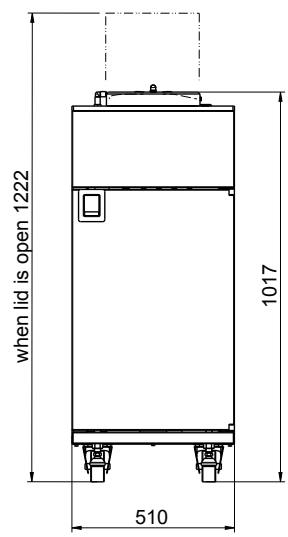
- Setup tool for optimal leveling of the Hotplate



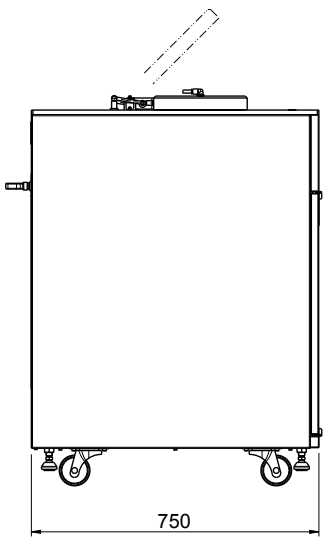
DESIGN AND DIMENSIONS

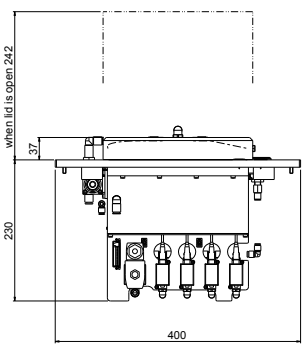
- Compact, space-saving design
- 3.5” colour touch screen
- Hotplate: 210 x 210 mm, anodised aluminium
- Lid: Opening and closing with pneumatic lift, anodised aluminium

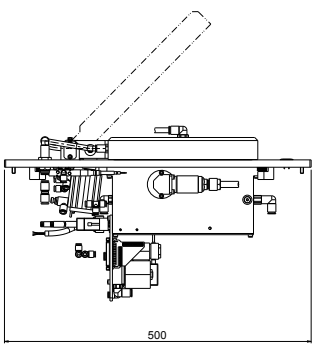
Mobile cabinet HP-200-Z Cab	Bench-mounted unit HP-200-Z BM
▶ Mobile cabinet made of electro polished stainless steel ▶ Dimensions (lid open): 510 x 750 x 1222 mm (L x W x H) ▶ Weight: approx. 90 kg	▶ Housing: anodised aluminium ▶ Dimensions (lid open): 400 x 500 x 472 mm (L x W x H) ▶ Weight: approx. 45 kg



Mobile Cabinet







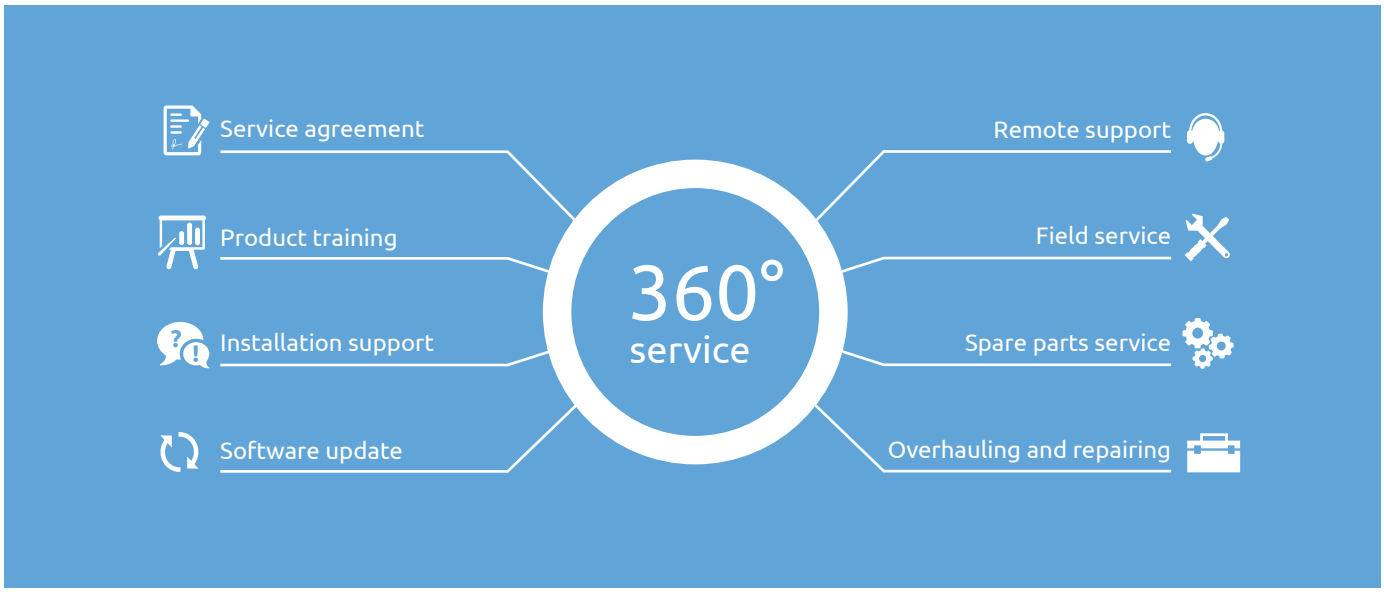
Bench mounted unit (BM)

REQUIRED MEDIA

- Electrical connection: 3 x 400 VAC +P, 50/60 Hz, 3,6 kW
- Technical vacuum: -0.8 bar, tube Ø 6/4 mm
- Compressed air: 4 bar, tube Ø 6/4 mm
- N2-connector: 2.5 bar, tube Ø 6/4 mm
- HMDS-connector: tube Ø 6/4 mm
- Cooling water: 3 l/min at 18 °C
- Cooling water: In/Out, tube Ø 8/6 mm (2 pcs.)
- Exhaust connector (BM / Cab): Ø 40 mm



SWISS QUALITY



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.

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