SAWATEC
SWISS HIGHTECH SYSTEMS

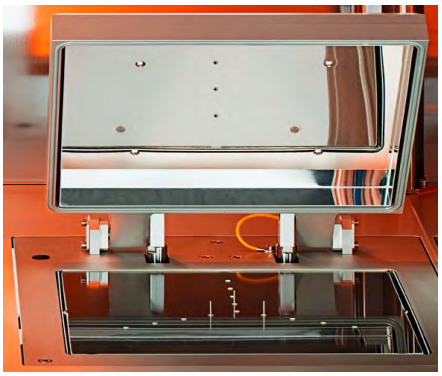
HOTPLATE HP-200

High precision soft and hard baking

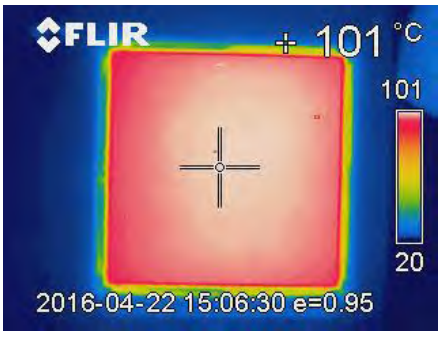




Wafer Clean & Primer	Photoresist & Soft Bake	Mask Alignment & Exposure	Post Bake & Develop	Etch & Hard Bake	Stripping	Clean & Inspection
Spin Rinser Dryer **Hotplates** (Dehumidifier)	Spin Modules Spray Coater **Hotplates**		**Hotplates** Coolplates Developer	Developer Developer-Etch **Hotplates**	Developer-Etch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







The **Hotplate HP-200** was developed for precise soft bake and hard bake processes in lithography, in MEMS and similar applications. The temperature range is designed for up to 250 °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 (proximity/loading pins in the upper start position).

The hot-plate 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.

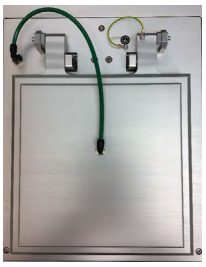
The high-precision instruments are available as mobile cabinet, portable bench-top and bench-mounted unit.

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
- Proximity/loading pins, can be easily adapted to different substrate sizes
- Hot-plate with protection glass, easy cleaning
- Easy levelling of the hot-plate, prevents discharge of photoresist
- Manual substrate fixation via vacuum
- Manual loading and unloading of the substrates

PERFORMANCE DATA

- Temperature range: ambient temperature up to 250 °C
- Temperature accuracy: +/- 0.6 °C at 100 °C
- Electrical driven proximity and loading pins (stroke 8 mm)
- Program controlled adjustable proximity pins (0.1 mm increments)
- Pin-circle-diameters: 45 - 192 mm (2 - 8")





ADDITIONAL FUNCTIONS (OPTIONS)

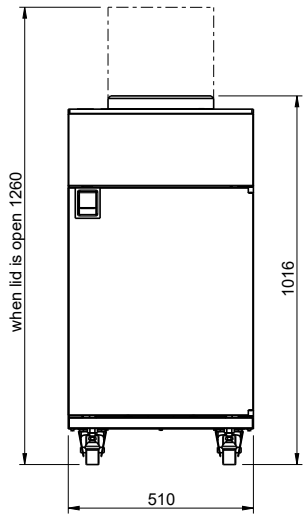
- N2 flushing program controlled, no oxidation
- HMDS priming program controlled, optimized adhesion
- Setup tool for optimal height adjustment of the pins and leveling of the Hotplate

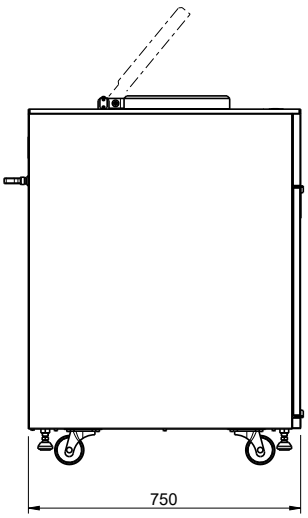


DESIGN AND DIMENSIONS

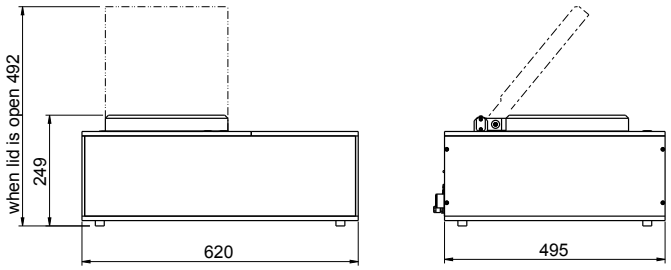
- Compact, space-saving design
- 3.5" colour touch screen display
- Hot-plate: 250 x 250 mm, anodised aluminium
- Lid: Opening and closing with pneumatic lift, anodised aluminium
- Proximity/loading pins made of Inconel Ø 1 mm

Mobile cabinet HP-200 Cab	Bench-top unit HP-200 BT	Bench-mounted unit HP-200 BM
▶ Mobile cabinet made of electro polished stainless steel ▶ Dimensions (lid open): 510 x 750 x 1260 mm (L x W x H) ▶ Weight: approx. 75 kg	▶ Housing: anodised aluminium ▶ Dimensions (lid open): 495 x 620 x 492 mm (L x W x H) ▶ Weight: approx. 38 kg	▶ Housing: anodised aluminium ▶ Dimensions (lid open): 380 x 495 x 456 mm (L x W x H) ▶ Weight: approx. 56 kg (incl. control system)

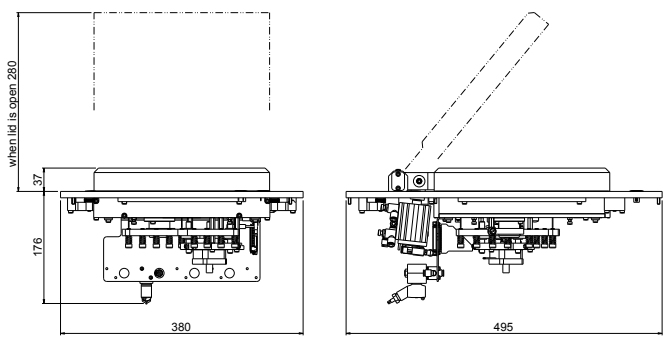




Mobile Cabinet (Cab)



Bench top unit (BT)



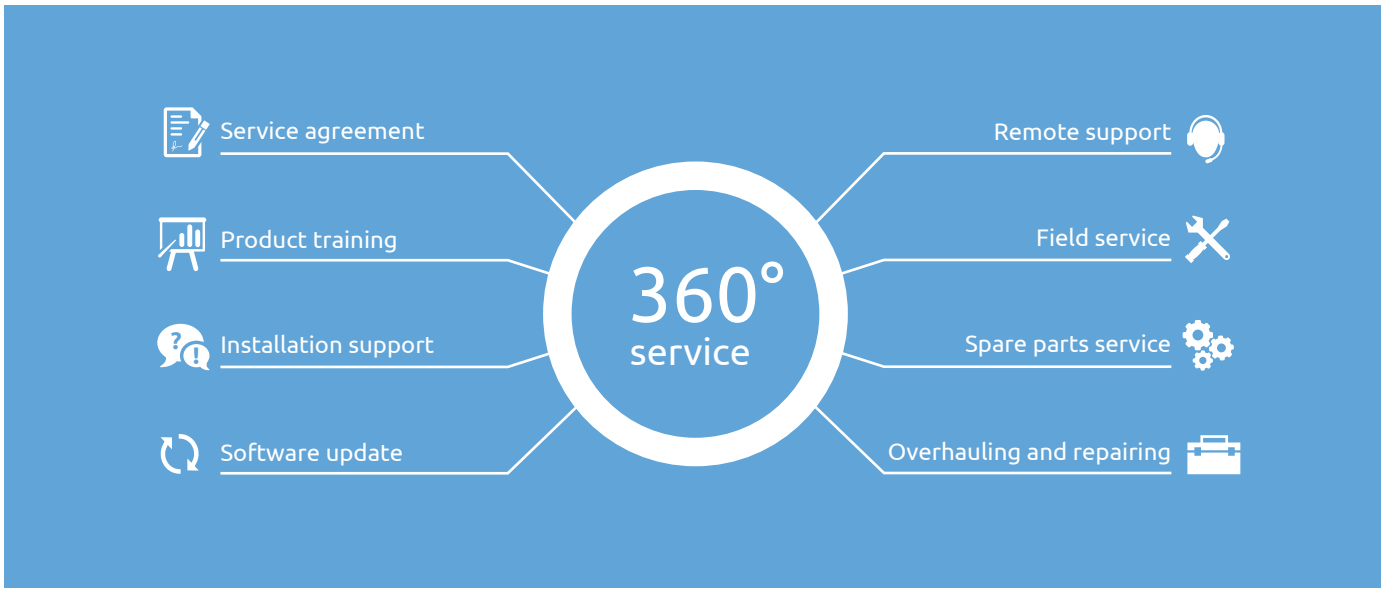
Bench mounted unit (BM)

REQUIRED MEDIA

- Electrical connection: 230 VAC, 50/60 Hz, 16 A, 1480 W
- Compressed air: 6 bar, tube Ø 6/4 mm
- Technical vacuum: -0.8 bar, tube Ø 6/4 mm
- Optional N2-connector: 2.5 bar, tube Ø 6/4 mm
- Exhaust connector (BT / BM / Cab): Ø 32 mm / Ø 40 mm / 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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