



**Hotplate HP-200-Z**  
**Ultra high precision**  
**soft & hard baking**



The **Hotplate HP-200-Z** 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 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 200mm and thicknesses of 18mm 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 safety glass, which makes cleaning easier. Due to the high quality, robust design and easy handling, SAWATEC hotplates are preferentially used for laboratories, R&D, pilot projects and institutes.

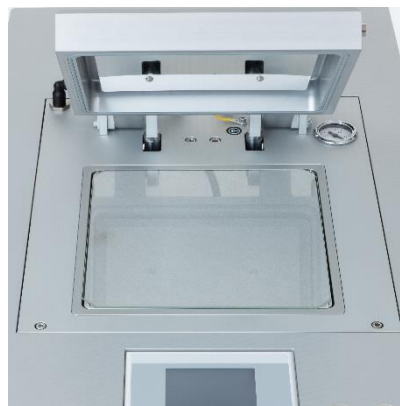
The high-precision instruments are available both as mobile cabinet and bench-mounted units.

### FEATURES (BASIC CONFIGURATION)

- Temperature control with digital target and actual value display
- Quick start function for repeat processes
- Automatic temperature limit switch, no overheating
- Heating ramp up possible with 20 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 safety glass, easy cleaning
- Easy levelling of the hotplate, prevents discharge of photoresist
- User-friendly process configuration with touch screen panel
- Manual substrate fixation via vacuum
- Manual loading and unloading of the substrates
- N2 flushing manually controlled, no oxidation
- HMDS priming program controlled, optimized adhesion



N2 and HMDS flushing, quick start



Safety glass



### PERFORMANCE DATA

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

### ADDITIONAL FUNCTIONS (OPTIONS)

- Simple setup tool for optimal alignment of the hotplate

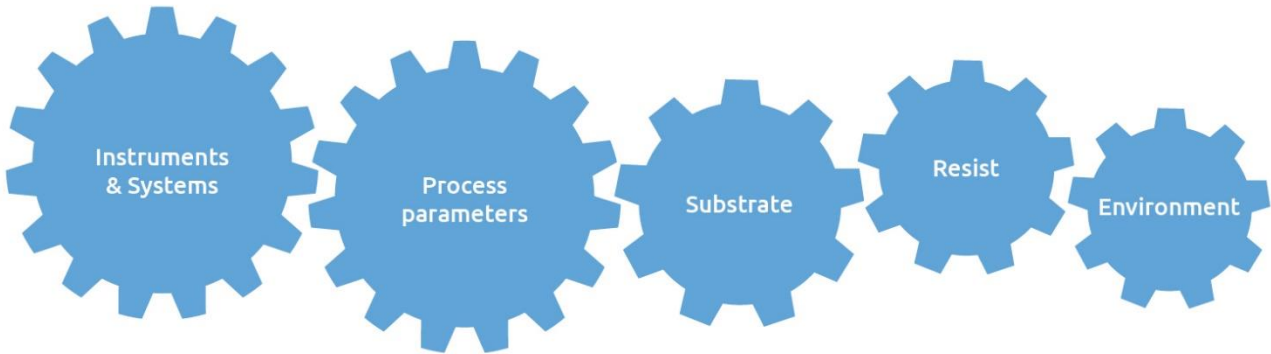


Alignment tool

**INTERACTION OF THE PROCESS PARAMETERS**

To ensure that a high level of process reliability can be reached, the interaction of our products with the defined process parameters, the selected substrate and the photoresist must be perfectly co-ordinated.

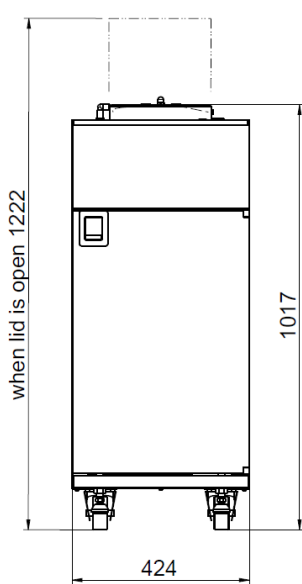
Furthermore, the process environment exerts a great influence on the process quality, therefore the ambient temperature, the exhaust and supply air (laminar flow) and all technical connections (N2, compressed air...) must be designed optimally.



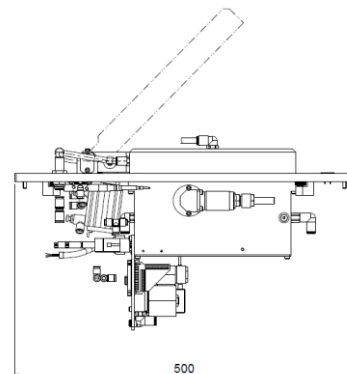
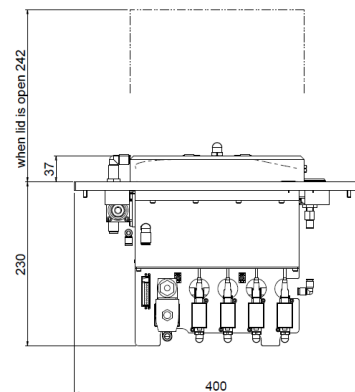
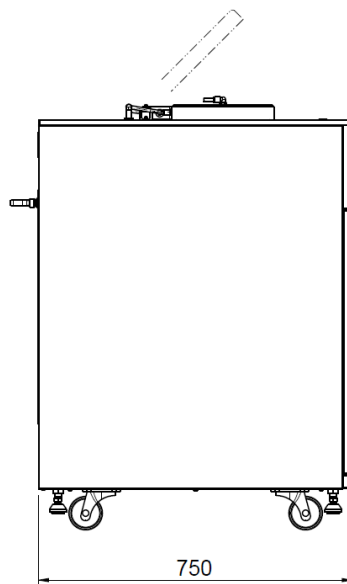
**DESIGN AND DIMENSIONS**

- Compact, space-saving design
- 3.5" colour display touch screen panel
- Hotplate: 210 x 210mm, anodised aluminium
- Lid: open and close with pneumatic lift, anodised aluminium

Mobile cabinet HP-200-Z Cab	Bench-mounted unit HP-200-Z-BM
<ul style="list-style-type: none"> <li>▪ Mobile cabinet made of electro polished stainless steel</li> <li>▪ Dimensions (lid open): 424 x 750 x 1242mm (L x W x H)</li> <li>▪ Weight: approx. 75kg</li> </ul>	<ul style="list-style-type: none"> <li>▪ Housing: anodised aluminium</li> <li>▪ Dimensions (lid open): 400 x 500 x 472mm (L x W x H)</li> <li>▪ Weight: approx. 45kg</li> </ul>



Cabinet unit



Bench-mounted unit (BM)

### REQUIRED MEDIA

- 3 x 400 VAC +P 50/60Hz (3,6kW)
- Technical vacuum, tube Ø6/4mm (-0.8bar)
- Compressed air 4 bar, tube Ø6/4mm
- N2-connector, tube Ø6/4mm
- HMDS-connector, tube Ø6/4mm
- Cooling water 3l/min at 18°C
- Cooling water In/Out, tube Ø8/6mm (2pcs.)
- Cabinet exhaust-connector Ø 40mm
- BM version: exhaust-connector Ø 32mm



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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