# Key Technical Data

<table>
<thead>
<tr>
<th></th>
<th>GABOMETER® 2000</th>
<th>GABOMETER® 4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test specimen size</td>
<td>17.8 mm/25 mm</td>
<td>30 mm (&lt; 40 mm optional)/25 mm</td>
</tr>
<tr>
<td>Static load drive</td>
<td>Shaker Servomotor (option)</td>
<td>Shaker Servomotor (option)</td>
</tr>
<tr>
<td>Dynamic load drive</td>
<td>Electro dynamical shaker system</td>
<td>Electro dynamical shaker system</td>
</tr>
<tr>
<td>Frequency range</td>
<td>30 Hz</td>
<td>30 Hz</td>
</tr>
<tr>
<td>Static strain range</td>
<td>up to 60 mm</td>
<td>up to 60 mm</td>
</tr>
<tr>
<td>Dynamic strain range</td>
<td>± 1.5 mm up to ± 10 mm (option)</td>
<td>± 1.5 mm up to ± 10 mm (option)</td>
</tr>
<tr>
<td>Force range</td>
<td>up to 2500 N</td>
<td>up to 5000 N</td>
</tr>
<tr>
<td>Temperature range</td>
<td>(-160°C) RT up to 300°C</td>
<td>(-160°C) RT up to 300°C</td>
</tr>
</tbody>
</table>

**Temperature measurement**
- Mode A: Temperature in the furnace PRT100 or type K thermocouple
- Mode B: Temperature at the bottom of the cylindrical test specimen (thermocouple type K)
- Mode C: Vertical needle type thermocouple within the centre of the sample after measurement with automatic pneumatic drive (option)
- Mode D: Horizontal needle type thermocouple within the centre of the sample during the measurement with manual mode (option)

**Measurement**
- Heat build-up or blow out of the test specimen
- Compression set
- Energy loss (option)
- Visco-elastic properties only during the heat build-up tests ($E', E'', \tan \delta, E^*$) (option)
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- Compression set
- Energy loss (option)
- Visco-elastic properties only during the heat build-up tests ($E', E'', \tan \delta, E^*$) (option)

**DMA Mode**
- Visco-elastic properties ($E', E'', \tan \delta, E^*$) (option)
- Visco-elastic properties ($E', E'', \tan \delta, E^*$) (option)

**Autosampler**
- Magazine for 20 up to 60 compression samples (option)
- Tension, bending, shear tests for DMA (option)
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- Tension, bending, shear tests for DMA (option)

**Electrical supply**
- 3 phases, 400 V, 50/60 Hz, 32A
- 3 phases, 400 V, 50/60 Hz, 32A

**Max. dimensions (height x width x thickness)**
- 1800 mm x 1200 mm x 1200 mm
- 1800 mm x 1200 mm x 1200 mm

**Max. weight**
- 750 kg
- 750 kg