

# Key Technical Data

# NETZSCH

	GABOMETER® 2000	GABOMETER® 4000
Test specimen size (diameter/thickness)	17.8 mm/25 mm	30 mm (< 40 mm optional)/25 mm
Static load drive	Shaker Servomotor (option)	Shaker Servomotor (option)
Dynamic load drive	Electro dynamical shaker system	Electro dynamical shaker system
Frequency range	30 Hz 0.5 up to 50 Hz continuously (option)	30 Hz 0.5 up to 50 Hz continuously (option)
Static strain range	up to 60 mm	up to 60 mm
Dynamic strain range	± 1.5 mm up to ± 10 mm (option)	± 1.5 mm up to ± 10 mm (option)
Force range	up to 2500 N	up to 5000 N
Temperature range	(-160°C) RT up to 300°C	(-160°C) RT up to 300°C
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	<ul style="list-style-type: none"> <li>■ Heat build-up or blow out of the test specimen</li> <li>■ Compression set</li> <li>■ Energy loss (option)</li> <li>■ Visco-elastic properties only during the heat build-up tests (<math>E'</math>, <math>E''</math>, <math>\tan \delta</math>, <math>E^*</math>) (option)</li> </ul>	<ul style="list-style-type: none"> <li>■ Heat build-up or blow out of the test specimen</li> <li>■ Compression set</li> <li>■ Energy loss (option)</li> <li>■ Visco-elastic properties only during the heat build-up tests (<math>E'</math>, <math>E''</math>, <math>\tan \delta</math>, <math>E^*</math>) (option)</li> </ul>
DMA Mode	Visco-elastic properties ( $E'$ , $E''$ , $\tan \delta$ , $E^*$ ) (option)	Visco-elastic properties ( $E'$ , $E''$ , $\tan \delta$ , $E^*$ ) (option)
Autosampler	<ul style="list-style-type: none"> <li>■ Magazine for 20 up to 60 compression samples (option)</li> <li>■ Tension, bending, shear tests for DMA (option)</li> </ul>	<ul style="list-style-type: none"> <li>■ Magazine for 20 up to 60 compression samples (option)</li> <li>■ Tension, bending, shear tests for DMA (option)</li> </ul>
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