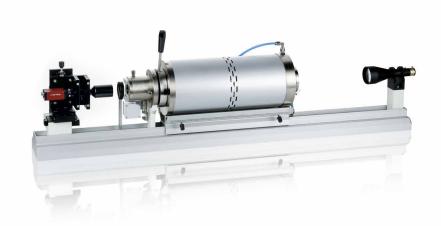
## **Drop Shape Analyzer**

## DSAHT

## Specifications







Product group specifications	DSAHT1600	DSAHT1800	DSAHT2000
Camera system			
Connection		ethernet	
Optics			
Focus Magnification Field of view Resolution		software-controlled autofocus 1.87× 10 × 14 mm down to 7 µm	
Illumination			
Type Field of light (D × H)		halogen, telecentric 25 × 23 mm	

Measurement specifications with ADVANCE software	DSAHT1600	DSAHT1800	DSAHT2000
Sessile drop			
Result Range (software-based) Resolution (software-based) Models Types Constrained Sessile Drop	contact angle 0 to 180° 0.01° conic section, polynomial, circle, Young-Laplace, height-width static		
Result Range (software-based) Resolution (software-based) Models		surface tension 0.01 to 2000 mN/m 0.01 mN/m Young-Laplace	



General specifications	DSAHT1600	DSAHT1800	DSAHT2000
Sample dimensions			
Maximum sample space	length: 20 mm	length: 20 mm, diameter: 7 mm	
Temperature control			
Heating element Measuring system Range furnace Range sample	SiC Al <sub>2</sub> O <sub>3</sub> up to 1600 °C up to 1550 °C	MoSi <sub>2</sub> Al <sub>2</sub> O <sub>3</sub> up to 1800 °C up to 1700 °C	Graphite Graphite up to 2000°C up to 2000°C
Cooling rates		0 1200 °C: 30 °C/min 1200 1600 °C: 20 °C/min > 1600 °C: 10 °C/min 1600 1100 °C: 10 °C/min 1100 600 °C: 10 °C/min 600 300 °C: 5 °C/min	
Temperature measurement			
Accuracy		± 2.5 °C	
Internal sensor Location	thermocouple type S	thermocouple type B at the sample	thermocouple type C
Vacuum control			
Final value Atmosphere	down to 10 <sup>-5</sup> mbar oxidizing, reducing, vacuum	down to 10⁴ mbar inert, oxidizing, reducing, vacuum	down to 10 <sup>-3</sup> mbar inert, reducing, vacuum
Instrument dimensions			
Footprint (W × D) Height		1200 × 400 mm 400 mm	
Power supply			
Voltage		230 V/16 A	