

# DROP SHAPE ANALYZER – DSA HIGH TEMPERATURE

## SPECIFICATIONS



**KRÜSS**

Advancing your Surface Science

Product group specifications	DSAHT1600	DSAHT1800	DSAHT2000
<b>Camera system</b>			
Connection		ethernet	
<b>Optics</b>			
Focus		software controlled autofocus	
Magnification		1.87×	
Field of view		10 × 14 mm	
Resolution		down to 7µm	
<b>Illumination</b>			
Type		halogen, telecentric	
Field of light (D × H)		25 × 23 mm	
<b>Software</b>			
ADVANCE <sup>1)</sup>		contact angle	

Measurement specifications with ADVANCE <sup>1)</sup>	DSAHT1600	DSAHT1800	DSAHT2000
<b>Sessile drop</b>			
Result		contact angle	
Range		0 to 180°	
Resolution		0.01°	
Models		conic section, polynom, circle, Young-Laplace, height-width	
Types		advancing, receding, static, dynamic, tilting	

<sup>1)</sup> optional

**General specifications****DSAHT1600****DSAHT1800****DSAHT2000****Sample dimensions**

Maximum sample space

length: 20 mm, diameter: 7 mm

length: 20 mm, diameter: 5 mm

**Temperature control**

Heating element

SiC

MoSi

Graphite

Measuring system

Al<sub>2</sub>O<sub>3</sub>Al<sub>2</sub>O<sub>3</sub>

Graphite

Range furnace

up to 1600 °C

up to 1800 °C

up to 2000 °C

Range sample

up to 1550 °C

up to 1700 °C

up to 2000 °C

Heating rates

0 ... 1200 °C: 30 °C/min  
1200 ... 1600 °C: 20 °C/min  
> 1600 °C: 10 °C/min

Cooling rates

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

thermocouple type S

thermocouple type B

thermocouple type C

Location

at the sample

**Vacuum control**

Final Value

down to 10<sup>-5</sup> mbardown to 10<sup>-4</sup> mbardown to 10<sup>-3</sup> mbar

Atmosphere

oxidizing, reducing, vacuum

inert, oxidizing, reducing, vacuum

inert, reducing, vacuum

**Instrument dimensions**

Footprint (W × D)

120 × 40 cm

Height

40 cm

**Power supply**

Voltage

230 V / 16A

