

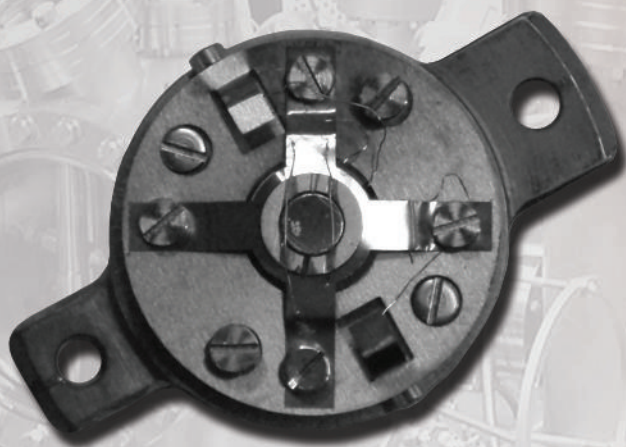


OmniVac

Surface Analysis and Vacuum Technology

Sample Holder

SH 100 series



The **OmniVac SH 100 Sample Holder** series provides a highly flexible mounting system for your samples which meets an outstanding range of desired experimental conditions due to their unique design

- standard sample plate 1"o.d.
- 6 electrical contacts
- easy to customize
- direct cooling with LN₂ or LHe
- heating up to 2300 K

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SH 100 Sample Holder

The **OmniVac SH 100 Sample Holder** series provides a highly flexible mounting system for your samples, which meets an outstanding range of desired experimental conditions due to their unique design.

The six electrical contacts are equipped with a thermocouple Type K, a resistive heater and two free pins for e.g. biasing or resistance measurements.

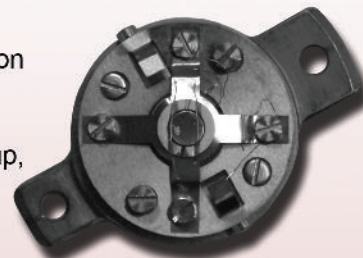
The whole sample plate can be efficiently cooled down by LN₂ (down to 88 K) or LHe.

Heating allows for reaching temperatures up to 2300 K.

Different heating methods may be applied as e.g. direct or indirect heating, electron bombardment etc.

Many non-standard sample holders are available, e.g. quartz balance, faraday cup, charge neutralization, optical measurements in transmission etc.

Modifications to meet your particular needs can easily be adjusted.



Standard design

<i>Standard sample size</i>	1" (2,54 cm)
<i>Max. sample size</i>	20 mm (diameter), custom size available on request
<i>Six electrical contacts</i>	2 for thermocouple, 2 for heating, 2 free pins
<i>Heating</i>	up to 1300 K (indirect) resp. 2300 K (el. beam)
<i>Cooling</i>	LN ₂ (< 100 K) or LHe (< 50 K)
<i>Adjustment</i>	Internal tilt to adjust sample with measurement plane

- ▶ sample plate o.d. 1"
- ▶ 6 electrical contacts
- ▶ heating up to 2300 K
- ▶ cooling with LN₂ or LHe
- ▶ easy to customize

Design variations

<u><i>Direct heating</i></u>	SH 130, for e.g. flash-heating of Si/SiO ₂
<u><i>Electron bombardment heating</i></u>	SH 120, SH 125 (up to 2300 K)
<u><i>Interface to other sample holder systems</i></u>	e.g. Omicron, SH 170, SH 175, RHK-SPM
<u><i>Heatable/coolable sample holder for optical measurements in transmission</i></u>	SH 150
<u><i>Integrated charge compensation</i></u>	SH 105

Related products:

- QMB 200** Quartz Microbalance (sample holder type)
- FC 200** Faraday Cup (adjustment device, sample holder type)



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