



## ACS Material Equipment Series

### ThermalSure<sup>®</sup> Metallic Viscometer

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## I. Product Introduction:

### 1. Main Machine



Photo of LLV 1200



Photo of LLV 2000

## II. Product Features

The metallic viscometer primarily uses the torsion pendulum method, a non-contact, high-resolution measurement technique that is well-suited for high-density, low-viscosity alloys and metals. The machine includes a heating module, lifting module, suspension module, measurement module, electrical control module, water-gas module, and a computer.

Product Advantages:

1. Non-contact sealing measurement minimizes the use of experimental materials, prevents contact contamination, and provides more uniform and stable heating of the sample.

2. The optical sensor enables high timing resolution with an accuracy of 0.1 ms, delivering high precision and excellent repeatability in viscosity testing.
3. The preferred choice for metal viscosity testing.

### III. Product Specifications

Product Name	ThermalSure® Metallic Viscometer	
Model	ETVMA012	ETVMA020
Temperature Range	Room Temperature ~1200°C	Room Temperature ~2000°C
Heating Rate	0.1~10°C/min	
Temperature Control Accuracy	±1°C	
Testing Range	0.1~2mm <sup>2</sup> /s	
Test Repeatability	3%	
Maximum Vacuum Level	100Pa	
Testing Environments	Vacuum/Atmosphere Protection	
Power Supply	220V (50 Hz/60Hz)	380V
Rated Power	5kW	30kW
Overall Dimensions	5000*2000*3000mm	
Configuration Description	Includes 1 main machine, a heating module, a lifting module, a suspension module, a measurement module, an electrical control module, a water-gas module, a control computer, a control software.	

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