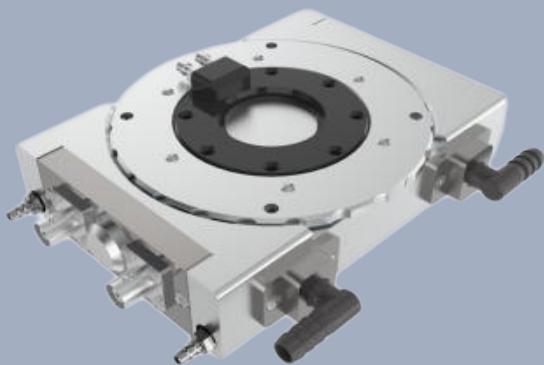


Special Applications

Ultra-high temperature stage for Microscope

Ultra-high temperature resistance + long-term stable operation

- Extreme high-temperature performance
- Precise temperature control and stability
- Seamless adaptation to microscopes
- Compact, durable and safe
- Wide range of scenario coverage



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
+65 8099 5547



Visit Us
www.venuslabtech.com

Overview

Introduction:

Ultra-high temperature stage for Microscope is an ultra-high temperature heating and cooling stage specially designed for microscopes. Its core function is to provide an extreme high-temperature testing environment for samples. The maximum temperature of the sample can reach 1500 (model VL-TT1500), and it can operate stably for a long time in the range of 1000 -1200 ; there is another model TT1000C, with a temperature range covering room temperature to 1000 , meeting different high-temperature testing needs.

The product adopts a water-cooled joint design for the upper cover, which can realize rapid cooling of the upper cover and avoid high temperatures from affecting other parts of the equipment; the sample stage is made of ultra-high temperature resistant materials to ensure stability and durability in long-term high-temperature environments. The overall design is compatible with microscopes, enabling the completion of high-temperature performance tests on materials such as metals and ceramics while observing the morphology of samples.

Features:

- Covers a wide temperature range
- Long-term stable operation
- Efficient heating
- Strong anti-interference ability
- Can be directly linked with a microscope
- Compact structure

Specifications

Common Parameter Specification Table

Parameter Category	Parameter Content
Starting Temperature	Room Temperature (RT)
Temperature Resolution	0.1
Temperature Accuracy	±0.01
Sample Stage Material	Ultra-high temperature resistant material (e.g., superalloy)
Upper Cover Design	Equipped with water-cooled connector for rapid cooling
Equipment Dimensions	Approximately 140mm×100mm×42mm
Net Weight of Equipment	1kg

Explore Series

Model	Heating element	Overall dimensions	Testable sample area	Range of Temperature
VL-TT1000	Heating rod	140mm×100mm×42mm	15mm	RT~1000°C
VL-TT1500	Platinum wire heater	140mm×100mm×42mm	16mm	RT~1500°C

 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

Let us help you move science forward—faster and smarter.

[Get a Quote](#)



Get Expert Advice
+65 8099 5547



Visit Us
www.venuslabtech.com