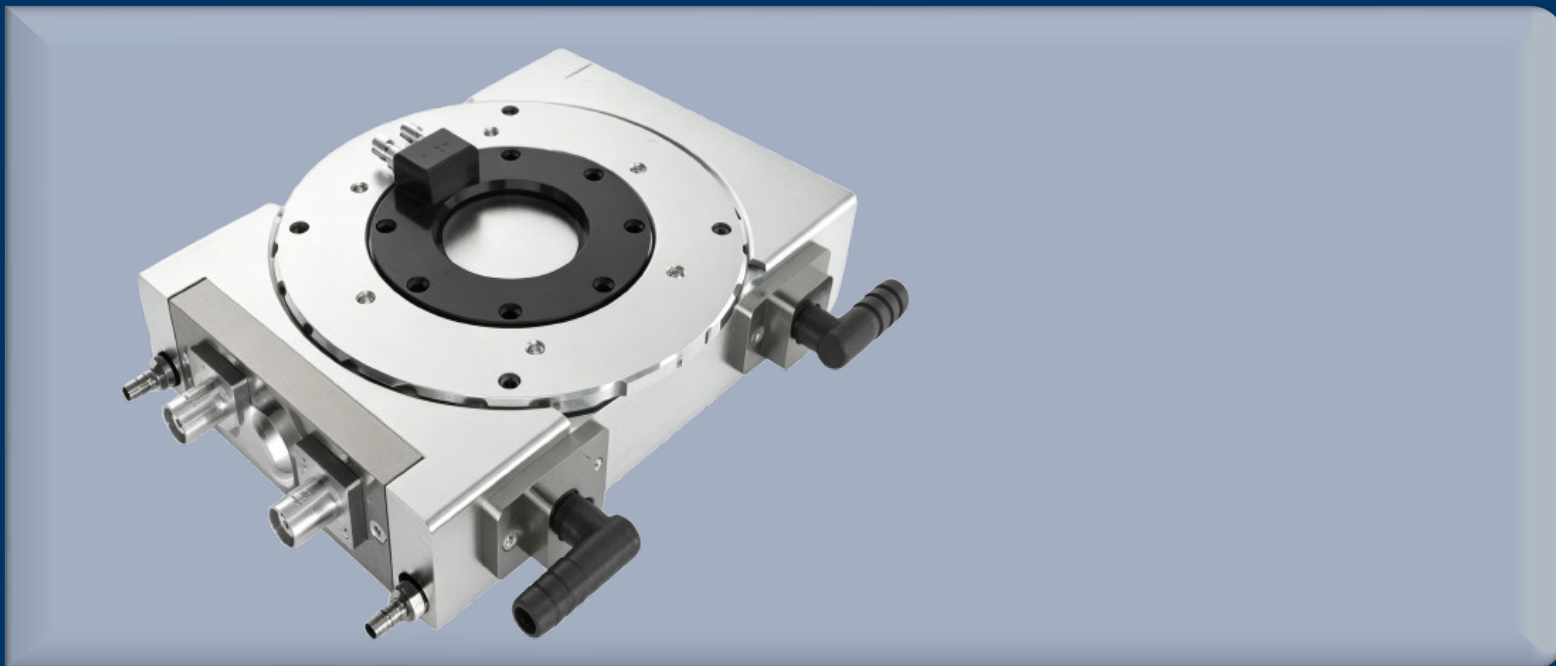


## Special Applications

### 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



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## 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 °C (model VL-TT1500), and it can operate stably for a long time in the range of 1000 °C -1200 °C ; there is another model TT1000C, with a temperature range covering room temperature to 1000 °C , 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

## Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

### 1. Warranty Policy

#### Quality First, Worry-Free Operation

**Warranty Period:** We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.

**Coverage:** We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.

**Rapid Response:** Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

### 2. Technical Support

#### Expert Team, Full-Process Guidance

**Technical Consultation:** Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.

**Scheduled Maintenance:** We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.

**Training Services:** We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

### 3. Logistics & Delivery

#### Precision Packaging, Global Reach

**Professional Packaging:** Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.

**Logistics Partners:** We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.

**Shipping Insurance:** All shipments are fully insured to eliminate logistics risks.

### 4. Compliance & Certification

#### Strict Standards, Total Compliance


**Quality Certification:** Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such

as **CE and RoHS**.

**Export Compliance:** "Committed to environmental responsibility, all our products comply with **RoHS 2.0 and REACH standards**, ensuring safety and global compliance."

## 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.

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