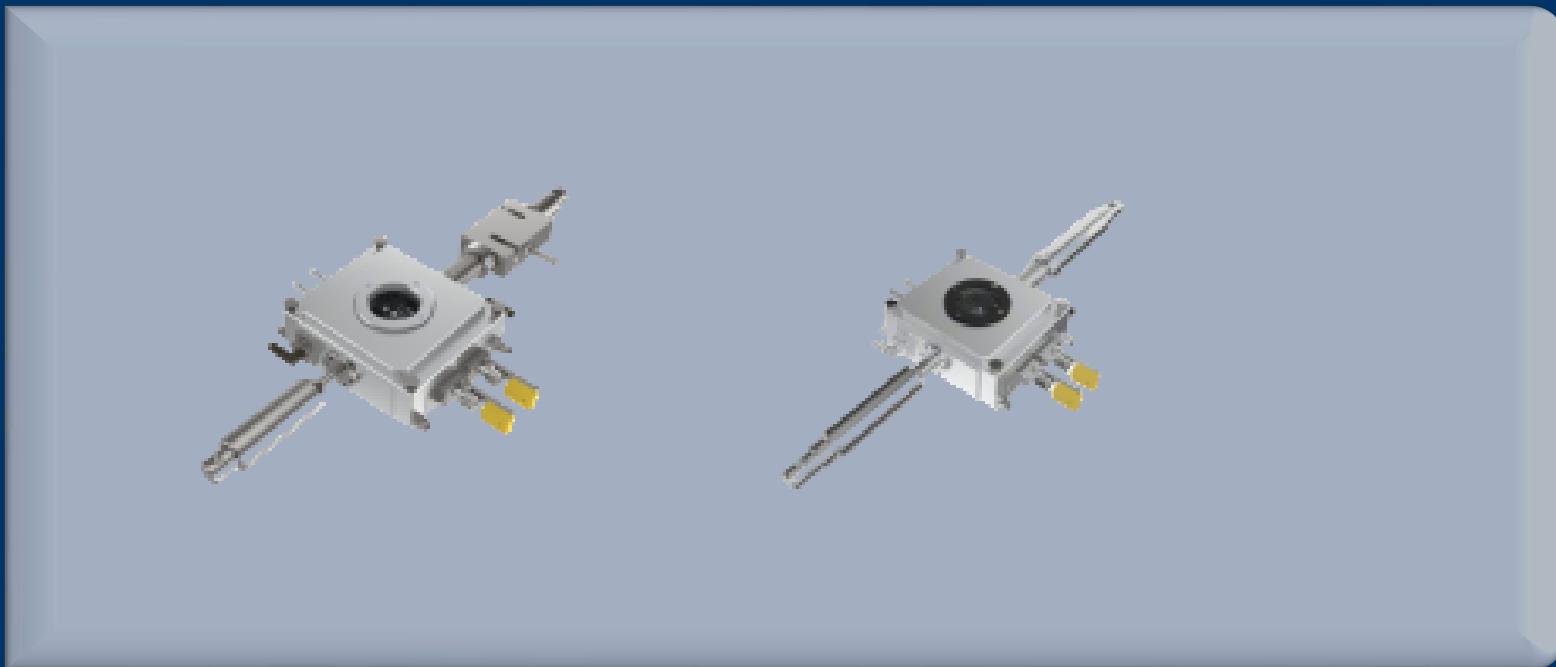


Mechanical Temperature Controlled Stages for mechanical testing

Study on Material Properties under Temperature-Mechanical
Coupling Environment

- Wide temperature range + high-precision temperature control
- Strong adaptability
- Extensibility of multi-field coupling
- Accurate data synchronization



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



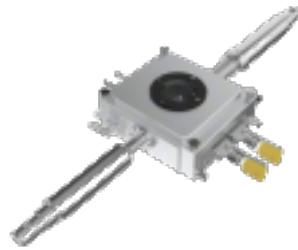
Get Expert Advice
+65 8099 5547



Visit Us
www.venuslabtech.com



LN600S-T



LN600S-C

Overview

Introduction:

The thermal stage for mechanical testing is widely compatible with inorganic materials such as metals and ceramics, as well as polymer materials like plastics and rubbers. It even covers special categories including composite materials and biological materials, supporting various mechanical property testing scenarios such as tension, compression.

In the low-temperature field, it can simulate the mechanical behavior of materials under extremely cold conditions, providing reliable experimental data for researching the low-temperature brittleness of materials, temperature-dependent deformation mechanisms, and more.

Features:

- Ultra-wide temperature coverage
- Precise temperature control capability
- Dynamic stress-temperature synchronous loading
- Programmed temperature control and mechanical loading
- Thermal Isolation and Protection

Specifications

Common Parameter Specification Table

Parameter Item	Parameter Details
Refrigeration model	Liquid nitrogen Refrigeration
Range of Temperature	-170 ~500
Temperature resolution	0.1
Temperature accuracy	±0.3
Maximum heating rate	20 /min
Maximum cooling rate	-15 /min
Vacuum level	1Pa
Maximum tension or pressure	10KN
Tension resolution	0.5N
Repeat test error	2%

Explore Series

Model	Net weight	Overall dimensions	Testable sample area	Range of Temperature
LN600S-T	4kg	520mm×240mm×50mm	Dog-bone model	-170°C~500°C
LN600S-C	4kg	520mm×240mm×50mm	7mm×7mm×(7-20)mm	-170°C~500°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 moves cience forward—faster ands marter.

[Get a Quote](#)



Get Expert Advice
+65 8099 5547



Visit Us
www.venuslabtech.com