

HSCTT Series Electronic High-temperature Endurance Creep Testing Machine



Picture is for reference only

1. Application

Testing machine is mainly used to measure performance and creep rupture strength properties of various metals and alloys at high temperatures, it is special equipment for studying and testing materials performance in the iron and steel metallurgy, aerospace, scientific research institutes, universities, and quality inspection departments.

2. Standards

ASTM E139 《Conducting Creep, Creep-Rupture, and Stress-Rupture Tests of Metallic Materials1》;

ASTM E292 《Standard Test Methods for Conducting Time-for-Rupture Notch Tension Tests of Materials》;

ASTM E1012 《Standard Practice for Verification of Testing Frame and Specimen Alignment Under Tensile and Compressive Axial Force Application1》。

3. Specifications

Host parameters				
Model	HSCTT-10	HSCTT-20	HSCTT-50	HSCTT-100
Max. Load force(kN)	10	20	50	100

Class	0.5
Load Range	0.4%-100%
Resolution of Load Force	1/300000 of Full Scale
Relative Error of Load force Reading	±0.5%
Lower pull rod speed	0.01-100mm/min
Lower Stroke	200mm
Power Supply	AC380V hearth size±10%; 50Hz
Electric stove and temperature control system	
High temperature stove type	Folio-style atmosphere furnace (three sections), electric wire heat
Temperature range	300~1100℃
Electric stove rise fall type	manual rotary
Heating power	5KW
Temperature controller variable	conductive temperature controller (Japan)
Creep measurements	
Test range of deformation	0~10mm
Error of deformation reading	≤0.5%FS
Resolution of deformation	0.001mm