

# geolometer

R O C K   S O L I D L Y   R E L I A B L E



**GL-ET 05**

**High and low temperature test  
machine**

# PRODUCT APPLICATION

Mainly suitable for rubber, plastic profile, plastic pipe, sheet metal, sheet, film, wire and cable, waterproof coil, wire and other materials in high or low temperature environment, stretching, compression, bending, peeling, tear, shear resistance and other mechanical properties test; extremely convenient for users to carry out research and development, quality control work, is the industrial and mining enterprise units, commodity inspection arbitration, scientific research units, colleges and universities, engineering quality and other departments ideal testing instruments.

## Product Specifications

SPECIFICATIONS	GL-ET 05
Maximum Test Force	5 kN
Accuracy Grade	0.5
Test Force Measurement Range	0.4% - 100% FS
Relative Error of Test Force	±0.5%
Test Resolution	1/±500,000 FS
Deformation Measurement Range	0.025 μm
Relative Error of Deformation	±0.5%
Force Control Rate Adjustment Range	0.01 - 5% FS/s
Relative Error of Force Control Rate	±1%
Deformation Resolution	1/±500,000 FS
Deformation Measurement Range	0.2% - 100% FS
Relative Error of Deformation	±0.5%
Effective Stretch Space	800 mm
Effective Test Width	400 mm
Power Supply	220V, 750W
Dimensions (L x W x H)	810 × 570 × 1900 mm
Weight	~240 kg
Crossbeam Speed Range	0.001 - 500 mm/min
Control Modes Range	0.5% - 100% FS
Control Accuracy	<10% FS: ±1%, ≥10% FS: ±0.1%
Displacement Relative Error	±0.5% of displayed value

SPECIFICATIONS	High & Low Temperature Box
Temperature Range	-45 °C to +150 °C
Cooling Time	≤ 50 min
Heating Time	≤ 70 min
Temperature Gradient	≤ 2 °C
Temperature Fluctuation	±1 °C
Temperature Deviation	±2 °C (-45 °C to +150 °C)
Display Accuracy	≤ 0.1 °C
Chamber Size (D × W × H)	240 × 200 × 600 mm (approx.)
Operating Temperature Range	+5 °C to +35 °C
Operating Humidity	≤85% RH
Atmospheric Pressure	86 - 106 kPa
Power Supply	AC220V ±10%, 50 ±0.5 Hz
Safety Devices	Leakage protector, over-temp protector, fan overheating protector, PID over-temp protection
Additional Features	Observation window, alarm output function