



**Innotech
Engineering Devices Pvt. Ltd.**



Computerised Servo-Controlled Tensile Testing Machine

with Low Temperature Test Chamber | Cold Elongation Test Setup

Innotech Engineering Devices Pvt. Ltd.

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Precision Testing for Cables and Accessories

Innotech Computerised Servo-Controlled
Tensile Testing Machine with Low
Temperature Test Chamber

SYSTEM OVERVIEW



Tensile strength and
elongation testing



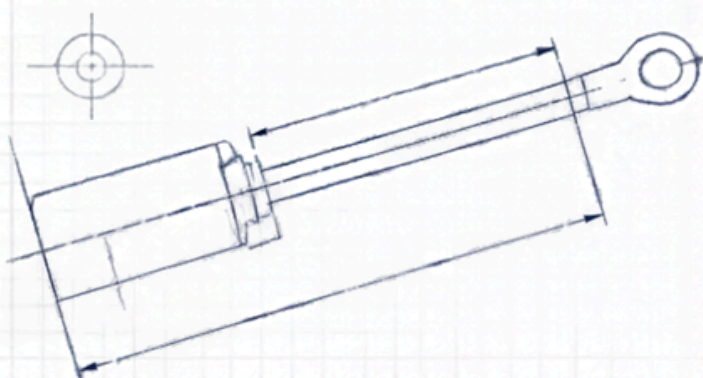
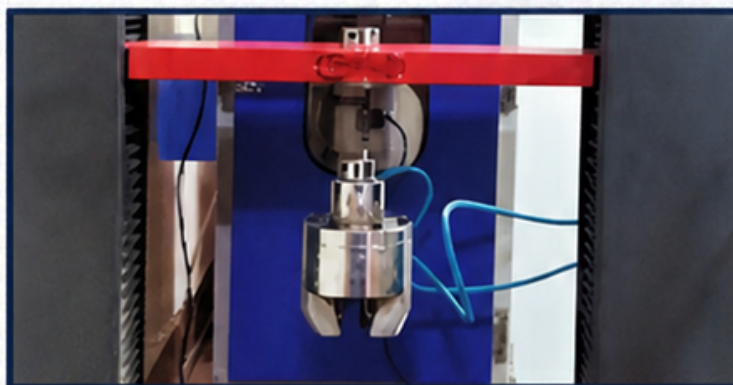
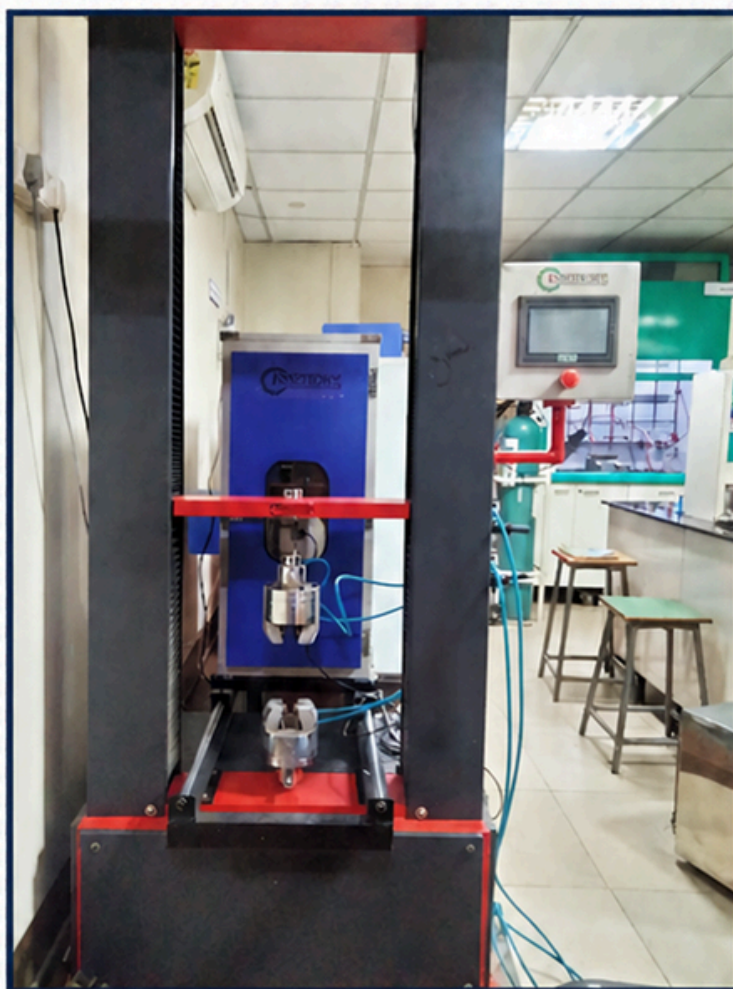
Low-temperature
elongation testing
down to -40°C



Digital display of load,
elongation, displacement
and temperature



Applications aligned with
IS 10810-7, IS 1608:2005,
IEC 60811-50 and IEC
60811-505



Tensile Testing Machine

Core Specifications



- 01 Capacity: 5 kN with digital load cells
- 02 Additional load cells: 500 N and 1 kN
- 03 Load measuring accuracy: $\pm 0.5\%$ of load cell used
- 04 Servo motor control
- 05 Jaw separation speed: 1–500 mm/min
- 06 Automatic load-cell interchangeability and load-scale selection
- 07 Pneumatic nickel-chrome-plated grips for ambient and -40°C testing
- 08 Lightly knurled serrated jaw inserts
- 09 Distance between grips: less than 30 mm
- 10 Digital display of load, elongation/displacement and temperature
- 11 Live Load vs Displacement and Stress vs Strain graphs
- 12 Overload protection, upper/lower limit switches and instant motor braking



Long-Travel Extensometer & Test Software

Extensometer

- Optical digital encoder scan range: 720 mm
- Gauge lengths: 10, 15, 20, 25, 40 and 50 mm
- Accuracy: 1% at 25 mm gauge length, ISO 5893 Class A, ASTM E83 Class C
- Resolution: 0.01 mm
- Tracking force: less than 10 g
- Specimen thickness: 0–5 mm
- Interface with 5 kN tensile testing machine and existing 25 kN UTM

Stress
(MPa)

400

200

100

0

0

2

1

6

1

10

Strain (%)

0

2

1

6

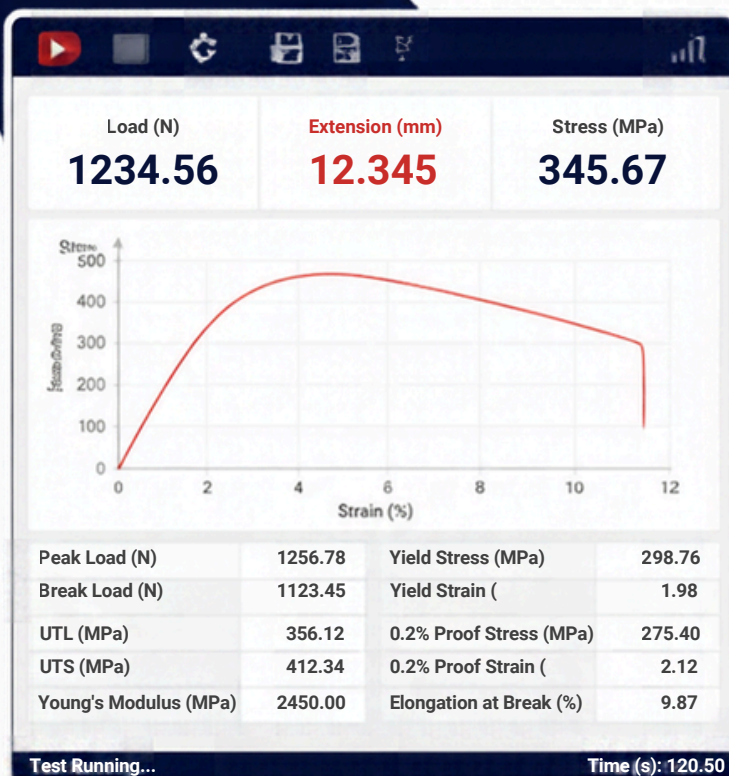
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Software Features

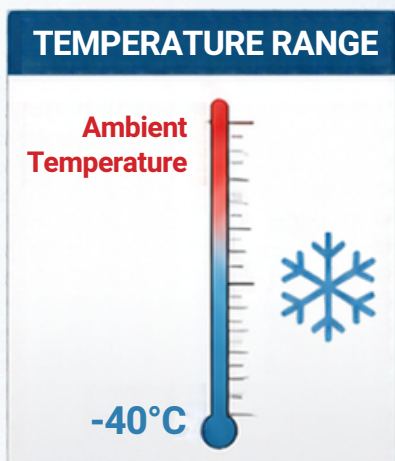
- Standards support: ASTM, ISO, EN, BS, DIN and more
- Windows 10 compatibility
- USB high-speed data transfer at 1 kHz or better
- Cyclic tests and segmented control profiles
- Automatic graphs, reports and statistical analysis
- Calculations including peak, break, UTL, UTS, Young's modulus, yield stress and strain, 0.2% proof stress and strain
- SI, metric and imperial unit conversion
- Password protection, historic-data recall, overload and over-travel protection



Low-Temperature Test Chamber

Environmental Testing at -40°C

	Temperature range: -40°C to ambient temperature
	Temperature accuracy: ±1°C
	Resolution: 0.1°C
	Internal dimensions: 180 × 200 × 700 mm (L × D × H)
	External dimensions: 420 × 1210 × 920 mm (L × D × H)
	Construction: stainless steel 304, inside and outside
	Cooling: air cooling
	Clear glass window for sample visibility at low temperature
	Glass door heater for clear visibility
	Sliding chamber arrangement for fixing grips on the tensile machine
	Branded digital PID temperature controller



BRANDED DIGITAL PID TEMPERATURE CONTROLLER

Accurate control and stable performance at low temperatures.

Specification, Support & Service



Calibration certificates from a NABL-accredited laboratory for load cells, extensometer and environmental chamber



Software updates/upgrades for the testing machine, computer, extensometer and environmental chamber during the life of the equipment



One-year warranty from successful installation and commissioning



Operation and maintenance manuals supplied



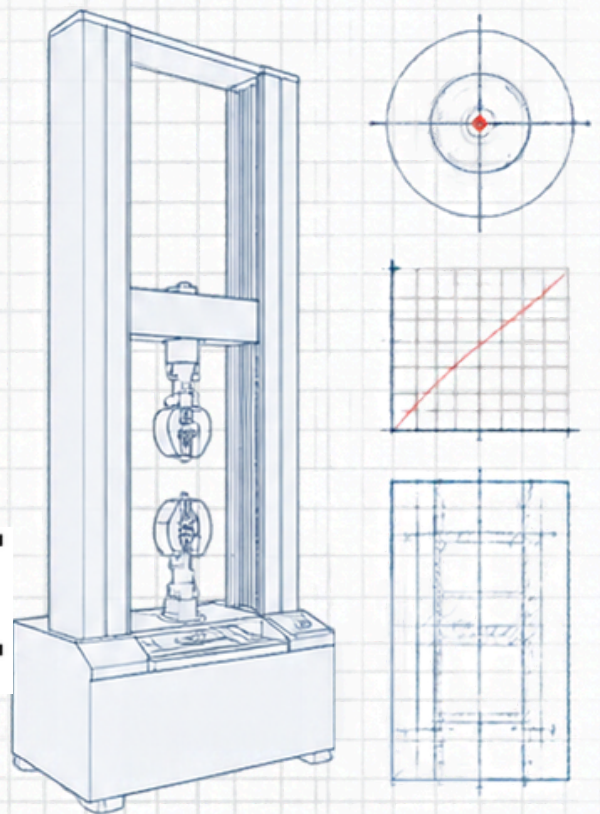
Installation, commissioning and training



Authorized after-sales service for repair and maintenance



Pre-dispatch inspection at the manufacturer's or supplier's premises



Contact Innotech Engineering Devices



Innotech Engineering Devices Pvt. Ltd.



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