INNOTECH
ENGINEERING DEVICES PRIVATE LIMITED

Indian Manufacturer of
Material Testing Equipment

Digital Tensile Testing Machine

Tensile Strength, Breaking Load & Elongation Testing

A high-precision, digital tensile testing machine for evaluating the tensile properties of various materials such as metals, plastics, rubber, textiles, wires, films and composites.



Key Benefits

- Accurate & reliable tensile test results
- Improves material quality & process control
- Versatile – suitable for multiple materials
- Customizable design as per specific needs
- Durable, industrial-grade construction

Main Components & Function



Load Measuring System (Load Cell)
Measures the applied tensile force.

Upper Grip
Holds the upper end of the specimen.

Specimen
Test material (metal, plastic, rubber, textile, wire, etc.).

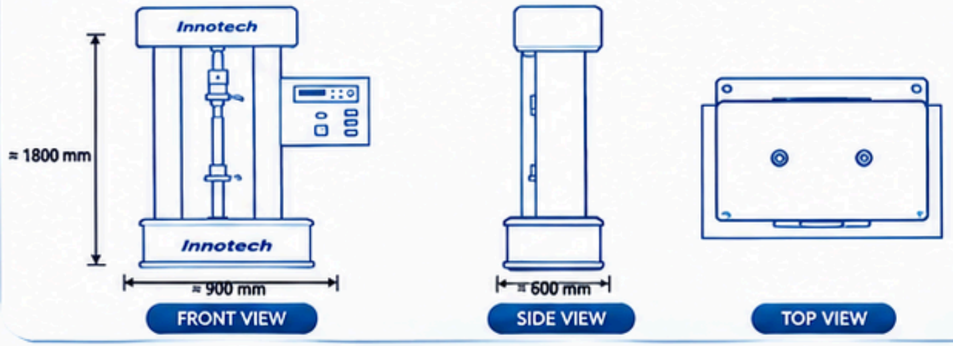
Lower Grip
Holds the lower end of the specimen.

Technical Specifications

Testing Capacity	Customizable (e.g. 1 kN to 100 kN and above)
Load Measurement	High-precision Load Cell (Digital)
Display	Digital Display
Test Speed	Variable / Adjustable (as per application)
Crosshead Travel	Customizable
Grip-to-Grip Separation	As per specimen requirement
Accuracy	High accuracy (as per selected model)
Power Supply	230 V / 415 V, 50 Hz (as per configuration)

Customization: We customize the product as per customer requirements (capacity, grips, travel, speed, sample size, software, etc.).

Blueprint / Dimensional Drawing (Typical)



Applications

- Metals & Alloys (Wire, Rod, Sheet, etc.)
- Plastics & Polymers (Sheets, Films, Pipes, etc.)
- Rubber & Elastomers
- Textile & Fabrics (Yarn, Woven, Non-woven)
- Cables, Ropes & Straps
- Composite & Engineering Materials

Industry Standards (As Applicable)

ASTM E8/E8M	Tensile testing of metallic materials
ISO 6892-1	Tensile testing of metals (room temperature)
ASTM D638	Tensile properties of plastics
ASTM D412	Tensile testing of rubber
ISO 527	Tensile properties of plastics
IS 1608 (Part 1)	Tensile testing of metallic materials

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