INNOTECH
ENGINEERING DEVICES PRIVATE LIMITED

Indian Manufacturer of Material Testing Equipment

Tensile Testing Machine (Digital)

Tensile Strength | Breaking Load | Elongation

A robust and reliable tensile testing machine designed for accurate evaluation of tensile properties of metals, wires, plastics, rubber, textiles and other engineering materials.



Key Benefits

- Accurate & repeatable test results
- Suitable for acvide range of materials
- Rugged and durable construction
- Low maintenance with easy operation
- Customizable to specific testing needs

Main Components & Functions



- **Crosshead** – Moves vertically to apply tensile load.
- **Upper Grip** – Holds the upper end of the specimen.
- **Specimen** – Material sample under tensile load.
- **Lower Grip** – Holds the lower end of the specimen.

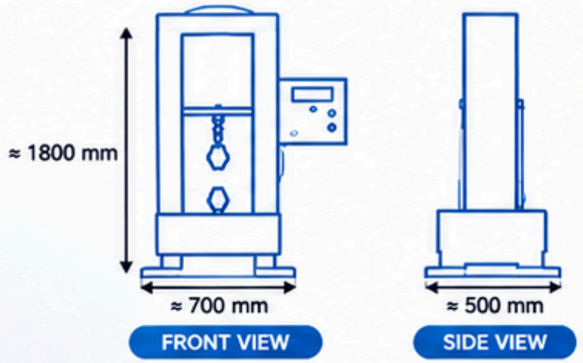
Technical Specifications

Testing Capacity	Customizable (e.g. 1 kN to 200 kN and above)
Load Measurement	Digital (Load Cell)
Display	Digital Indicator
Test Speed	Variable / Adjustable (as per standard)
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 Available

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

Blueprint / Dimensional Drawing (Typical)



Applications

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

Applicable Standards

- **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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