Innotech Engineering Devices Private Limited

Digital Tensile Strength Testing Machine

Capacity: 100 kg (1 kN)

A computerized testing machine designed for accurate and reliable measurement of tensile, compression and peel strength of a wide range of materials.



Capacity
100 kg (1 kN)

Load Accuracy
±0.5%

Speed Range
1 – 500 mm/min

Key Highlights

- Digital Controller with LCD Display
- Multi-Test Capability (Tensile, Compression, Peeling, Tearing, Elongation)
- Rugged, Stable and Low-Maintenance Design

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Material Testing Solutions for Industry

Digital Tensile Strength Testing Machine

Capacity: 100 kg (1 kN)

A computerized testing machine designed for accurate and reliable measurement of tensile, compression and peel strength of various materials.



High Accuracy
(±0.5%)

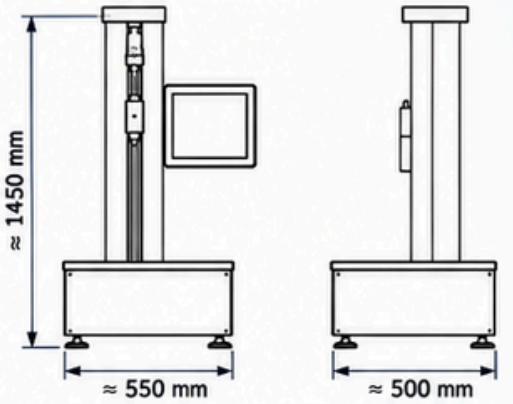
Multiple Tests
(Tensile / Compression / Peeling / Tearing)

PC Software
(Data, Graph & Report)

Detailed Technical Specifications

Parameter	Specification
Model	Digital Tensile Strength Testing Machine
Maximum Capacity	100 kg (1 kN)
Load Cell	High-accuracy, strain gauge type
Load Accuracy	±0.5% of indicated value
Display	LCD digital display with real-time test values
Control	Digital controller with PC software
Speed Range	1 – 500 mm/min (variable)
Crosshead Travel	Up to 1000 mm
Resolution	0.01 N (load), 0.01 mm (displacement)
Data Output	Load, displacement, strength, test report
Software	PC software for test control, data logging, graph and report generation
Tests	Tensile, Compression, Peeling, Tearing, Elongation
Power Supply	230 V AC, 50 Hz, Single Phase

Dimensions (Approx.)

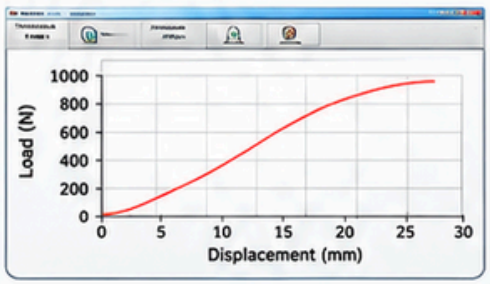


Details	Dimension
Overall Height (H)	≈ 1450 mm
Overall Width (W)	≈ 550 mm
Overall Depth (D)	≈ 500 mm
Net Weight (Approx.)	≈ 110 kg

Controller Interface



PC Software



Supplied Accessories

- Standard Tensile Grips (as per sample)
- Compression Platen
- Peel / Tearing Fixture
- PC Software with License
- Power & Interface Cables
- Operation Manual

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Applications & Tests Performed



Applications

Widely used in R&D, quality control and production for evaluating the mechanical properties of a wide range of materials and products.



Rubber & Elastomers



Plastics & Polymers



Textiles & Fabrics



Films & Laminates



Adhesives & Sealants



Packaging Materials

Tests Performed

Performs essential mechanical tests to determine the strength, deformation and reliability of various materials.



Tensile Test

Measures maximum tensile strength, yield and elongation.



Compression Test

Evaluates compressive strength and deformation.



Peeling Test

Determines peel strength of bonded materials.



Tearing Test

Measures tear resistance and energy absorption.



Elongation Test

Determines percentage elongation and material ductility.

Industries Served

Automotive | Textile | Rubber | Plastics | Packaging | R&D Labs | Manufacturing

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Key Features & Benefits

High-Accuracy Measurement
Precise load measurement with strain gauge load cell (±0.5% accuracy).

Motorized Speed Control
Variable speed drive ensures smooth, stable and accurate testing (1 – 500 mm/min).

Digital Controller with LCD
User-friendly interface for test setup, real-time readings and results.

Versatile Testing
Performs tensile, compression, peeling, tearing and elongation tests for various materials.

Rigid & Stable Construction
Robust structure for high stability, accuracy and long service life.

Reliable & Low Maintenance
Durable components, easy operation and minimal maintenance.



Benefits to the User

- Accurate & Repeatable Results
- Increases Testing Efficiency
- Cost-Effective Operation
- High Reliability and Durability
- Wide Material Compatibility

Innotech Engineering Devices Private Limited

Manufacturer of Industrial Testing Machines and Laboratory Equipment

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- Design & Manufacturing
- Installation & Commissioning
- AMC & Service Support
- Technical Consultation