

Single-Column Material Testing Machine for Metals and Plastics

This single-column material testing machine is used to evaluate physical and mechanical performance. It performs tensile, peeling, compression, bending, and shear tests on materials like metal, plastic, rubber, and textiles.



Overview

Versatile Material Testing Solution

This single-column material testing machine is a high-precision instrument designed for comprehensive mechanical performance analysis. It supports a wide array of testing methods including tensile, compression, peeling, bending, and anti-shear tests for metals, plastics, textiles, and cables. Engineered for reliability, the machine features a robust aluminum alloy frame, computer-controlled precision systems, and advanced safety mechanisms suitable for quality control and R&D environments.

Key Performance Metrics

Performance Metrics

100 kg

Maximum Load Capacity

900 mm

Testing Space

600 W

Power Consumption

Technical Specifications

Testing Speed Range	50 - 500 mm/min
Power Requirements	220V 50Hz, Single-phase
Dimensions (L x W x H)	560mm x 420mm x 1400mm
Machine Weight	100 kg

System Capabilities

Compatible Materials

- Metals
- Rubber and Plastic
- Footwear and Leather
- Textiles
- Wires and Cables
- Insulators

Supported Test Types

Tensile, Peeling, Compression, Bending, Anti-shear, Three-point bending

Compliance and Safety

Safety Mechanisms

Mechanical upper limit protection • Mechanical lower limit protection

Certifications

ISO 9001:2000, SGS