

Universal Testing Machine 1KN-600KN

This universal testing machine performs tensile, compression, bending, and shear tests. It features a robust frame, precision load cells, and advanced controls for accurate material characterization.



Overview

High-Precision Universal Testing Solution

This electronic universal testing machine delivers unparalleled accuracy and reliability for a wide range of material characterization tasks. Engineered with a robust frame and advanced control systems, it is designed to facilitate efficient data acquisition and analysis for both quality control and research environments. The system supports a comprehensive suite of mechanical tests, making it an essential tool for industries ranging from aerospace and automotive to biomedicine and electronics.

Performance & Capacity

Force Capacity Range

1 KN

Minimum Force

600 KN

Maximum Force

Testing Capabilities

Calculated Parameters

- Maximum test force
- Tensile strength
- Bending strength
- Compressive strength
- Elastic modulus
- Elongation at break
- Yield strength

Supported Test Methods

Tensile, Compression, Bending, Shear, Peeling, Tearing

Standards & Compliance

Compliance Standards

GB • ASTM • ISO

Applications

Industry Applications

- High strength metals
- Advanced composite materials
- Aviation and automotive structural parts
- Bolts and fasteners
- Rubber and adhesives
- Polymers and textiles
- Biomedicine
- Microelectronics