

# 600KN Universal Testing Machine for Composites

The 600KN universal testing machine tests mechanical properties of materials like carbon fiber and ceramic composites. It ensures accuracy with high stiffness frame and intelligent compensation technology for reliable data.



## Overview

### High-Precision Universal Testing Solution

This 600KN electronic universal testing machine delivers unparalleled accuracy and reliability for advanced material analysis. Engineered to comply with international standards including GB, ASTM, and ISO, it facilitates a comprehensive range of mechanical tests such as tensile, compression, bending, and shear. Designed for versatility, this system supports critical research, development, and quality control across sectors ranging from aerospace and automotive engineering to advanced composites and biomedicine.

## Technical Specifications

### Maximum Test Force

**600 KN**

Max Force Capacity

### Calculated Parameters

- Maximum Test Force
- Tensile Strength
- Bending Strength
- Compressive Strength
- Elastic Modulus
- Elongation at Break
- Yield Strength

### Supported Mechanical Tests

Tensile, Compression, Bending, Shear, Peeling, Tearing

## Industry Applications

### Applicable Industries

Aerospace • Automotive • Advanced Composites • Biomedicine • Microelectronics • Polymers • Rubber

### Compatible Materials

- High-strength metals
- Advanced composite materials
- Structural parts
- Bolts and fasteners
- Adhesives
- Textiles