

Biaxial Universal Material Testing Machine

This electric loading material testing machine is designed for biaxial testing. Its high coaxiality meets American standard requirements, and it can be equipped with various environmental devices and a large deformation strain measuring device.



Overview

Advanced Biaxial Material Characterization

The Biaxial Universal Material Testing Machine is a sophisticated instrument engineered for advanced material characterization under complex stress states. By applying loads in two orthogonal directions simultaneously, it simulates real-world conditions more accurately than traditional uniaxial testing methods. This robust system is essential for evaluating the performance of diverse materials, including composites, ceramics, and polymers.

Technical Specifications

Control Methods

- Force Control
- Displacement Control

Compatible Materials

Composite Materials • Ceramics • Rubber • Metals • Polymers

Testing Modes

Static Tensile, Compression, Biaxial Loading