

Geotextile Strength Testing Machine with LCD Interface

This machine features a built-in LCD and film panel with a user-friendly interface. It is mainly used to test the tensile strength, breaking strength, stripping strength, and seam strength of geotextiles, composite geotextiles, geogrids, and geomembranes.



Product Overview

Comprehensive Geotextile Strength Testing

This electronic testing machine is designed for high-precision mechanical analysis of geotextiles, geogrids, geomembranes, and composite materials. Featuring a dual-column gantry structure and AC servo drive, it delivers smooth, reliable operation for tensile, breaking, stripping, and seam strength testing. The system includes an integrated LCD interface and advanced software for real-time data analysis, making it an essential tool for quality control in construction, transportation, and water conservancy projects.

Technical Parameters

Measurement Accuracy	0.02 % F.S
Sampling Frequency	2500 Hz
Stretching Speed	0.05 - 500 mm/min
Beam Effective Moving	800 mm
Power Supply	AC220V ± 10% 50Hz 1.5KW
Dimensions	860 × 600 × 1800 mm

Performance & Capacity

Force Capacity Options

5 KN Capacity	10 KN Capacity	30 KN Capacity	50 KN Capacity
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Supported Holder Methods

- Wide strip method (200mm)
- Torn method (100mm)
- CBR broken (Æ50 × 100mm)

Compliant Standards

GB/T15788, GB/T13763, JTG E50-2006, BS6906.1, GB/T16989, GB/T14800, GB/T1040, SL/T235, ASTM D4595, GB/T17640

Features

System Capabilities

- Constant speed elongation (CRE) principle
- Multi-threaded data processing software
- Dual screen display with online communication support
- Limit, overload, and force value security measures
- Customizable test functions for various standards