UNIVERSAL > STRENGTH

HORIZONTAL TENSILE TESTING MACHINE

Code : U006



- The Horizontal Tensile Tester is purpose-built for testing long and rigid specimens under axial tensile load. Its horizontal configuration allows the testing of elongated elements such as electrical insulators, structural rods, rebar assemblies, and other mechanical components, with test lengths up to 12 meters depending on the design.
- Featuring dual M32 threaded ends, the machine provides flexible attachment options for customized grips and fixtures, accommodating a variety of specimen geometries and connection types required in high-voltage and structural applications.
- The machine integrates seamlessly with ALFA's advanced control software, which enables precise test sequencing using unlimited programmable steps, including both "LOAD" and "WAIT" commands. Engineers can configure load levels, ramping speeds, and time delays to replicate real-world loading conditions and perform complex mechanical behavior evaluations.
- A real-time dashboard displays live values of load, stress, elongation, and deformation. Users can monitor performance parameters directly during test execution and adjust if needed using the built-in manual override controls.

- Results are automatically documented with detailed graphs and test data. The system is equipped with integrated email functionality, allowing test reports to be instantly distributed to designated recipients.
- The “Fast Test” feature enables one-click initiation of standard routines for streamlined operation, ideal for quality control settings or repetitive production-line testing.
- Designed with the needs of laboratories and manufacturing quality departments in mind, this tester provides the reliability, repeatability, and accuracy essential for certifying high-performance materials such as composite or porcelain insulators under tensile stress.

STANDARDS

ASTM E8 • ASTM A370 • ASTM D3039 • ASTM D638 • EN ISO 6892-1 • EN ISO 527-1 • EN ISO 7500-1 • EN ISO 13586 • EN ISO 15630-1 • IEC 61109 • AASHTO T68 • AASHTO T244

TECHNICAL SPECIFICATIONS

- Type: Horizontal tensile testing machine
- Capacity: Up to 900 kN
- Max specimen length: Up to 12 m (customizable)
- Thread connection: M32 (both ends)
- Primary application: Electrical insulators, rebar, structural elements
- Test modes: Tensile strength, mechanical performance
- Programming: Unlimited steps (LOAD and WAIT commands)
- Load step: Target load and ramp speed configurable
- Wait step: Duration in seconds configurable
- Dashboard: Real-time display of load, stress, elongation, deformation
- Software: PC-based with advanced control and automation
- Fast Test: One-click quick start for standard routines
- Manual override: Enabled
- Data output: Graphs, stress-strain plots, automatic PDF/CSV report

- Report delivery: Email integration for instant report sending

EQUIPPED WITH

- PC software with programmable test steps and manual override
- Real-time monitoring and graph plotting module
- Dual M32 adapters for customizable attachments

ORDERING INFORMATION

Item Name	Item Code
HORIZONTAL TENSILE TESTING MACHINE - 10 kN	U006A010U
HORIZONTAL TENSILE TESTING MACHINE - 900 kN	U006A900U