

Universal Testing Machine



The **Single Column Tensile Strength Tester MSGTC021ASWISS** is a versatile testing machine designed for measuring tensile strength, compression, bending, shearing, bonding, peeling, tearing, and more in a wide range of materials. This machine is particularly useful for industries such as textiles, rubber, plastics, metals, leather, and more.

Applications

The tester is suitable for testing various materials including:

- **Textiles:** fabrics, yarn, nylon lines
- **Plastics and Rubber**
- **Leather and Metal**
- **Aviation and Automotive components**
- **Packaging materials**
- **Construction materials**
- **Electrical components**

It serves as a critical tool in **quality control, receiving inspection, physical testing**, and **material development** in many industries.

Standards

The MSGTC021ASWISS complies with multiple international standards, ensuring high-quality, standardized testing:

- **JIS Standard:** L1096
- **ASTM Standards:** D434, D751, D885, D1683, D2256, D2261, D2724, D2731, D3787, D4034, D4964, D5034, D5035, D5587, D5733, D5735
- **ISO Standards:** 13934-1, 13934-2, 13935-1, 13935-2, 13936-1, 13936-2, 13936-3, 13937-2, 13937-3, 13937-4, 1421, 2411, 2062, 4674-1, 5082, 9073.3, 9073.4, 9073.18
- **BS Standards:** 2543, 2576, 3320, 3424, 4303
- **M&S Standards:** P11, P12, P13, P14

Key Features

- **AC Servo Drive System:** Provides precise movement with low noise and high accuracy.
- **Aluminum Column Shell:** Durable design with a high-temperature solidified finish that prevents fading.
- **Multiple Safety Protections:**
 - Beam limit cam protection
 - Clamp touch protection
 - Displacement and load software protection
 - Overload and overcurrent protection
 - Automatic stop in case of sample damage or exceeding load limits
- **Real-time Supervision:** Monitors key components for enhanced safety and reliability.
- **Open System for Customization:** Users can edit test programs, formulas, and reports according to specific requirements.

Specifications

- **Model:** MSGTC021ASWISS
- **Display:** Computer Display
- **Max Capacity:** 1KN
- **Force Resolution:** 1/100,000
- **Force Accuracy:** ? $\pm 0.2\%$ F.S
- **Stroke:** 1000mm
- **Test Speed:** 0.01-1000mm/min
- **Stop Modes:** Includes overload stop, emergency stop, specimen damage stop, upper & lower limit automatic stop, and auto-return function.
- **Drive System:** Servo motor with synchronous wheel and precision ball screw
- **Power:** 200W
- **Power Supply:** AC 220V 50/60Hz
- **Dimensions:** 670x480x1440mm (WxDxH)
- **Weight:** 120kg

Accessories

- **Standard Accessories:**
 - 2 sets of Pneumatic Grips (7.6cm and 2.5cm attachments)
 - English Operation Software
 - Desktop computer with cables
 - Load cell
- **Optional Accessories:**
 - Additional Grips and Load Cells

Industry Applications

This tester can be applied to multiple industries, such as textiles, automotive, packaging, electronics, and construction, ensuring reliable and accurate material testing for enhanced product development and quality control.