Universal Testing Machine

Model **MSGTC021ASWISS** | Brand **Master Science**



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.

KEY HIGHLIGHTS

- AC Servo Drive System
- Aluminum Column Shell
- Real-time Supervision
- Open System for Customization
- Additional Information

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Key Features

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:

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

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.

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.

Additional Information
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.

Technical Specifications

PARAMETER	SPECIFICATION
Textilesfabrics, yarn, nylon lines	
JIS StandardL1096	
BS Standards2543, 2576, 3320, 3424, 4303	
M&S StandardsP11, P12, P13, P14	
DisplayComputer Display	
Max Capacity1KN	
Force Resolution1/100,000	
Force Accuracy≤ ±0.2% F.S	
Stroke1000mm	
Test Speed0.01-1000mm/min	
Drive SystemServo motor with synchronous wheel and precision ball screw	
Power200W	
Power SupplyAC 220V 50/60Hz	
Dimensions670×480×1440mm (W×D×H)	
Weight120kg	
Stop ModesIncludes overload stop, emergency stop, specimen damage stop, upper & lower limit automatic stop, and auto-return function.	

Applications

Plastics and Rubber

Leather and Metal

Aviation and Automotive components

Packaging materials

Standard Accessories Included

- 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