Martindale Abrasion and Pilling Testing Machine Advanced, 9 Station

Model **MSYIG16SWISS** | Brand **Master Science** | Unit **Pc**



Martindale Abrasion and Pilling Tester

The MSYIG16SWISS Martindale Abrasion & Pilling Tester is designed for testing the wear-resistance and grinding properties of woven fabrics, wool-blend fabrics, leather, knitted goods, and non-woven fabrics under controlled pressure. It is used to assess the durability of materials by simulating abrasive wear.

KEY HIGHLIGHTS

- Advanced Motor
- Imported Belt
- Microcontroller
- Independent Station Control
- Quiet Operation

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Key Features

Load pieces and key components made from high-quality stainless steel for long-lasting durability.

Advanced Motor
Equipped with a converter motor for smooth operation.

Imported Belt
Uses high-quality imported belts for precise operation.

Microcontroller
Powered by a USA ARM microcontroller for reliable performance.

Independent Station Control
Allows for separate control of each testing station.

Quiet Operation
The machine operates quietly during testing.

Repeatable Trajectory
Features two Lissajous trajectories for high repeatability.

Data Restoration
Data can be restored after power failure.

Aluminum Abrasion Table
The abrasion table is constructed from lightweight aluminum for better performance.

Technical Specifications

PARAMETER	SPECIFICATION
Touch ScreenFeatures a 7-inch color touch screen for ease of use.	
Work-Station Numbers9	
Draw TrajectoryTwo Lissajous and Linear	
Counter Display0–999,999 (automatic stop when preset count is reached)	
Speed47.5 ± 2.5 rpm	
Abrasion Table Diameterφ120 mm	
Abrasion Test (Specimen Holder Weight)198 g ± 2 g	
Abrasion Test (Loading Weight)395 g ± 7 g (Equivalent to 9 kPa)	
Abrasion Test (Alternate Loading Weight)595 g ± 7 g (Equivalent to 12 kPa)	
Pilling Test (Specimen Holder Weight)155 g ± 1 g	
Pilling Test (Loading Piece Weight)260 g ± 1 g	
Pilling Test (Weight of Load Hammer)2.5 ± 0.5 kg	
Pilling Test (Dimensions)850 mm × 630 mm × 430 mm	
Pilling Test (Weight)92 kg	
Pilling Test (Power Supply)AC 110/220V ± 10%, 50/60 Hz	

Applications

- **Woven fabrics**
- **Wool-blend fabrics**
- **Leather**
- **Knitted fabrics**
- **Non-woven fabrics**

Standard Accessories Included

- ISO 5470, IWS TM112/196
- DIN 53863/53865
- BS 3424/5690
- BS EN 388/530
- JIS L 1096
- ASTM D 4966/4970
- ISO 17079-2, ISO 12947
- ISO 17704, ISO 20344
- ISO 17076-2, ISO 12945-2
- SATRA TM31
- 1: Item: Abrasion Tester
- Quantity: 1
- Remark: Main Body
- 2: Item: Pin Shaft
- Quantity: 9
- 3: Item: Hammer
- Quantity: 1
- 4: Item: Lissajous Trace Pen
- Quantity: 1
- 5: Item: Weights
- Quantity: 18
- Remark: 595 g each (9 pcs)
- 6: Item: Specimen Clamps
- Quantity: 18
- Remark: Ø90 mm each (9 pcs)
- 7: Item: Abrasion Table
- Quantity: 9
- 8: Item: Specimen Fix Ring
- Quantity: 9
- 9: Item: Rubber Rings
- Quantity: 18
- Remark: For Ø90 mm specimen
- 10: Item: Load Disc
- Quantity: 9
- 11: Item: Accessories Case
- Quantity: 2
- Remark: Aluminum-Alloy Case

Optional Accessories

- SDC Felt Disc (140mm Non-Woven): 1 Pack (24 pcs)
- SDC Felt Disc (140mm Woven): 1 Pack (24 pcs)
- SDC Felt Disc (90mm Non-Woven): 1 Pack (24 pcs)
- SM25 Wool Aradant Abraden: 1 Pack (160 cm wide, length 5)
- Polyurethane Foam Sheet: 1 Pack (25 cm × 20 cm, 25 pcs)
- Sample Cutter: 1 Set (Φ38 mm, Φ140 mm)
- EMPA 991 Photographs (SWISSATEST): 1 Set (12 pcs)
- EMPA 990 Photographs (SWISSATEST): 1 Set (24 pcs)