



Smartindale Martindale Abrasion & Pilling Tester

Smartindale Martindale Abrasion and Pilling Tester is used for fabric abrasion and pilling tests. It generates a Lissajous curve with a digital algorithm, and then drives the friction, achieving accurate running without calibration. You can switch test modes such as the abrasion test to the pilling test with one click without changing the pins.

You can also control and monitor the Smartindale from your smartphone by SmarTexLab app connection, and the test data can be uploaded to ERP or LIMS system, to realize smart testing.

It can test the abrasion and pilling resistance of cotton, linen, silk woven fabrics and other textiles, film materials, knitted fabrics, woolen fabrics, artificial leather, synthetic leather, gloves, labor protection materials, and so on. It is widely applicable to more than 20 international standards such as ISO 12945-2-2020, ISO 12947-2-2016, BS EN 530-2010; ASTM D4970/4970M-22, etc.

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- The Lissajous curve is calibration-free, making it a more reliable test.**

Smartindale runs by an exclusive and patented digital algorithm that drives dual servo motors and precision slide rails, replacing the traditional mechanical analog drive to generate a perfect Lissajous curve. After more than 10 million times (equal to three years non-stop) of ultra-high intensity friction life test with rubber simulation specimen and double weight, the Lissajous curve is still accurate and perfect, so the test is more reliable.

- Can be connected to ERP or LIMS through an APP, more smart**

Smartindale can be connected to the APP SmarTexLab installed on your smartphone, then you can set the parameters, monitor the test status, etc. After the completion of the test, the sample information, the test process, and the results can be uploaded to ERP or LIMS, to achieve smart testing, more in line with the requirements of the laboratory management system (ISO17025), such as CNAS or ILAC, so that the entire testing process is more convenient, transparent, and efficient.

- One-touch switching between abrasion and pilling testing, for greater efficiency.**

You can switch the test modes (e.g. abrasion to pilling) on the control panel, no need to remove the cover plate and change the pin position.

- User-friendly design**

The flip-up guide plate can be lifted with one hand, which is convenient for loading samples and taking samples; there is a cushioning function when the cover plate falls, which avoids damaging the machine and is safer for the operators.



Power
230V 50/60Hz 5A



Weight
90kg



Dimension
510*850*300 mm

The Specification of Smartindale

Abrasion test	
Max stroke of movement	60.5+/-0.5mm
Weight of holder and spindle	198+/-2g
Pilling test	
Max stroke of movement	24+/-0.5mm
Weight of holder and spindle	155+/-1g

Accessories

Fuse tube	2pcs
Foam wool	9 pcs Φ38 mm
Wool felt	18 pcs Φ90 mm, Φ140 mm
Wool abrasive	9 pcs Φ140 mm
Sampling plate	3 pcs Φ38 mm, Φ90 mm, Φ140 mm
Sampler	1 pc for pilling test
Sampler	1 pc for abrasion test
Press	1 pc Φ126mm, 2.5kg
Fixture1	9 sets for pilling test
Fixture 2	9 sets for abrasion test
Weight 1	9 sets 12Kpa
Weight 2	9 sets 9Kpa
Rubber ring	9pcs
Test pen	1pc
Connection shaft	9pcs for pilling test
Connection shaft	9pcs for abrasion test
Stainless steel ring	9pcs 260g

Optional Accessories

EMPA990 rating chart card	1 set knitted + Woven
SM50 rating chart card	1 set IWS + ASTM
SM25 abrasion resistant wool cloth	1 pack 1.6 X 5m/pack
Sm26 woven wool felt	1 box 24 pcs/box Φ140mm
Sm26 woven wool felt	1 box 24 pcs/box Φ90 mm
SM28 polyurethane ether foam	1box 250 X 200mm/pc, 25pcs/box

Standards

ISO 12945-2-2020 ISO12947-2-2016 ISO12947-1-1998
 ISO12947-3-1998 ISO12947-4-1998
 GB/T 21196.1-2007 GB/T 21196.2-2007
 GB/T 21196.3-2007 GB/T 21196.4-2007
 GB/T 4802.2-2008 BS EN 530-2010
 ASTM D4970/4970M-22 ASTM D 4966-22

Optional Standards

BS EN 388-2016+A1-2018 SATRATM31 A/B PUMA
 BS EN 16094-2012 ISO 20344-2021 Item 6.12
 BS EN 13520-2002 ISO 5470-2-2021

TF212 Wyzenbeek Abrasion Tester

Wyzenbeek Abrasion Tester, a handy instrument to conduct the Wyzenbeek wear resistance test, in which fabrics being rubbed against a standard abrasive or a wire mesh screen with a backward and forward motion over a curved surface. The sample is ground by a fixed abrasive in a defined number of cycles. Wyzenbeek abrasion tester applies to automotive and furniture industry fabric manufacturers working to US Standards Motor driven with 4 abrasion heads and electronic digital counter to control the number of cycles.



Specifications

Testing stations:	4 groups
Oscillatory frequency:	90 CPM
Oscillatory arc:	76 mm
Dimension of sample:	245 x 73 mm
Tension on sample:	4 lbf (17.8N), adjustable
Load on sample:	3 lbf (13.4N), adjustable

Suction manifolds to connect to auxiliary vacuum cleaner.

Sealed transmission drive for quieter operation.

Standard Accessories

Rubber Pads for Wyzenbeek:	4
Wire mesh screens for Wyzenbeek:	1
Vacuum cleaner:	1
Sampling plate:	1

Optional Accessories

Rubber Pads for Wyzenbeek:	pack of 8
Wire mesh screens for Wyzenbeek:	pack of 4
Abradant Fabric:	10 Cotton Duck 60in x 5yds

Power:	220 / 110 V 50 / 60 Hz 3 A
Weight:	60kg
Dimensions:	490 * 780 * 730 mm

TESTEX INSTRUMENT LTD

TESTEX is one of the leading developers and textile testing equipment manufacturers since 2010, focusing on developing and manufacturing instruments used in textile industry all over the world.

✉: sales@tes.hk

☎: +86-769-23294842

🌐: www.TestexTextile.com

📍: NO.13, WanJiang Industrial Street

WanJiang, Dongguan, Guangdong, China



TF215 DIN Abrasion Tester

DIN Abrader (abraser) is suitable for the abrasion resistance test of polyester sole, shoe sole, and polymer sheet material. When the wear wheel rotates, the sample is rubbed in a certain degree of sandpaper to generate abrasion, so as to evaluate the wear performance. The abrasion tester provides a wide testing area to meet the most request. Additional balance is required.



Specifications

Load Weight: 5N, 10N
Roll Dim.: Dia. 150mm, Length
460mm
Rotation speed: 40rpm
Holder Moving distance: 4.2mm each rotation

Standard Accessories

Gauge
Pre-grinding block
Sampling plate
Brush
Weights: 2.5N, 5N

Standards

ISO 20344 - 8.4, ASTM D5963,
GB/T 9867, SATRA TM174
Optional Standards ISO 4649

Optional Accessories

Weights
Sandpaper: No.60
Standard reference glue No.1
Standard reference glue No.2

Power: 220 / 110 V 50 / 60 Hz 3 A
Weight: 61 kg
Dimensions: 750 * 300 * 420 mm

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TF216

MIE Abrasion Tester

MIE Abrasion Tester, is to determine the wear resistance of textiles used for the automobile such as the interior material made of woven, knit, composite, coated fabrics by rubbing against an abrasive cloth.



Specifications

2 x 2 test positions. Each pair of tests runs at the same time
The 2 couples can perform tests independently or simultaneously
Large Touch panel to program or monitor the duration of each test station test program for each cycle speed, etc.
Rubbing table is 90 +/-1 width
Rubbing stroke is 150 mm
Rubbing speed is 30cpm

Standard Accessories

Sampling plate
Abrasion head: 5kg
Weight: 2kg

Standard

Renault – PSA D44 1073

Power: 220 / 110 V 50 / 60 Hz 3 A
Weight: 65kg
Dimensions: 450 x 620 x 520 mm (L x W x H)

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