all4 test

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, ISO12947-2-2016, BS EN 530-2010; ASTM D4970/4970M-22, etc.

TECHNISCHE DATEN

NORMEN

Power connection	230 V / 50 Hz
Compressed air connection	nein
PC connection	
Width / Diameter	85 cm
Depth	53 cm
Height	30 cm
Weight (net)	90 kg

Ingenieurbüro Walter

all4test Tel.: +49 (0)9842 - 9 36 96 30 · Fax: +49 (0)9842 - 9 36 96 33 · info@all4test.de ib-walther · Willy-Brand-Straße 4 · D-97215 Uffenheim · www.all4test.de





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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 (IS017025), 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.

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

	Power 220/110V 50/60Hz
பீ	Weight 90kg
mm	Dimension

nension 510*850*300 mm(W*L*H)

Accessories

2pcs
9 pcs Φ38 mm
18 pcs Φ90 mm,Φ140 mm
9 pcs Φ140 mm
3 pcs Φ38 mm,Φ90 mm,Φ140 mm
1 pc for pilling test
1 pc for abrasion test
1 pc Φ126mm,2.5kg
9 sets for pilling test
9 sets for abrasion test
9 sets 12Kpa
9 sets 9Kpa
9pcs
1pc
9pcs for pilling test
9pcs for abrasion test
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 ISO12947-1-1998 ISO12947-2-2016 IS012947-3-1998 IS012947-4-1998 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 D4966-22

Optional Standards

BS EN 388-2016+A1-2018 Protective gloves for mechanical hazards; SATRATM31 A/B Abrasion Resistance Test for Leather; PUMA; BS EN 16094-2012 Laminated wood flooring, Test method for the determination of micro-scratches; ISO 20344-2021 Item 6.12 Personal protective equipment, Test methods for footwear and boots; BS EN 13520-2002 Test methods for footwear, uppers, linings and insoles, abrasion resistance; ISO 5470-2-2021 Rubber or plastic coated fabrics, determination of abrasion resistance