

Smartindale

Your Devices

PillSnag

TumblePill

SmartSnag

Unidale

### **Smartindale Martindale Abrasion** & Pilling Tester



The Smartindale is used for abrasion and pilling tests on You can switch the abrasion and pilling tests with a one-

It runs by an exclusive and patented digital algorithm that drives dual servo motors and precision slide rails to generate a perfect Lissajous curve, so test is more reliable. The upper cover can be easily flipped up and locked with one

Smart Abrasion and Pilling Test The Smartindale can be connected to the SmarTexLab APP via IoT, also to ERP or LIMS. Universal Test Report can be generated and transferred. And you can receive reminders of test-over and instrument calibration from your smartphone.

hand; Easier for installation of consumables and samples.

ISO 12945 -2-2020	ISO 12947 -1-1998	ISO 12947 -2-2016	ISO 12947 -3-1998	ISO 12947 -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 Stan	dards			
BS EN 388-2 +A1-2018	2016 SA	ATRATM31 A/B	PUMA; BS EN	16094-2012
ISO 20344-7 Item 6.12	ISO 20344-2021 BS EN 13520-2002 ISO 5470-2-2021 Item 6.12			
ISO 17076-2	2-2011 GE	3/T 39507-2020		
	Power 220/110V Weight 90kg	50/60Hz		
गगग	Dimension	00 (14/41 411)		
	210,820*3	00 mm(W*L*H)	)	

Fuse tube Foam wool Wool felt Wool abrasive Sampling plate Fixture 2

Weight 2

Test pen

**Ball Plate** 

9 pcs Φ38 mm 18 pcs Φ90 mm, Φ140 mm 9 pcs Φ140 mm 3 pcs Ф38 mm, Ф90 mm, Ф140 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 Connection shaft 9pcs for pilling test Connection shaft 9pcs for abrasion test Stainless steel ring 9pcs 260g

Φ120mm

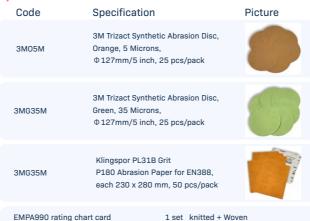
SM50 rating chart card

SM25 abrasion resistant

Sm26 woven wool felt

Sm26 woven wool felt

wool cloth



Felt Hammer Pins Tape Measure Sampling Plate

1 set IWS + ASTM

1 pack 1.6 X 5m/pack

1 box 24 pcs/box Φ140mm

1 box 24 pcs/box Ф90mm

1 box 250 X 200mm/pc 25pcs/bo

### Unidale **Martindale Abrasion** & Pilling Tester



and reliable. The fixture rotates flexibly and the grinding table and specimen fixture is highly parallel. The machine and the surface of the grinding table have a very low vibration (less than 0.05mm), so those are more

conducive to achieving reliable test results. Unique butterfly-shaped guide plate, lightweight and spacesaving so it is easy for you to change accessories and observe the test

 Unidale Martindale Abrasion and Pilling Tester has 3 models,4 work stations, 6 work stations and 9 work stations Smart Abrasion and Pilling Test

The Unidale can be connected to the SmarTexLab APP via IoT, also to FRP or LIMS. Universal Test Report can be generated and transferred. And you can receive reminders of test-over and

Otaliaa	140				
ISO 1	2945	ISO 12947	ISO 12947	ISO 12947	ISO 12947
-2-2	020	-1-1998	-2-2016	-3-1998	-4-1998
GB/T		GB/T	GB/T	GB/T	GB/T
2119		21196.2	21196.3	21196.4	4802.2
-200		-2007	-2007	-2007	-2008
BS EI 530-	N 2010	ASTM D4970 /4970M-22	ASTM D4966-22		

#### **Optional Standards**

+A1-2018		JAIRAINIJ.	I A/D		BS EN 1609	4-2012
ISO 20344-202 Item 6.12	21	BS EN 1352	20-200	02	ISO 5470-2-	2021
ISO 17076-2-2	2011	GB/T 3950	7-202	0		
•	Power 220/11	.0V 50/60	lHz			
		station typ		0 1	t) 147kg(p t) 110kg(p	
गगग	<b>Dimens</b> 9 work-sta					
	Machine		850*	600*340mm	(L*W*H)	
		Accessories station type	990*	840*770mm	(L*W*H)	

## (Note: 4-6-9, 8-12-18 refers to the number of accessories for

the 4-6-9 work station type separately. 4-6-9 pcs Φ38mm 8-12-18 pcs Φ90mm, Φ140mm 4-6-9 pcs Φ140 mm Wool abrasiv 3 pcs Ф38mm, Ф90mm, Ф140mr 1 pc for pilling test 1 pc for abrasion test 1 pc Ф 126mm.2.5kg 4-6-9 sets for abrasion test Weight 2 4-6-9 sets 9Kpa Rubber ring 4-6-9pcs 4-6-9pcs for pilling test Connection shaft 4-6-9pcs for abrasion test Stainless steel ring 4-6-9pcs 260g

Sm26 woven wool felt

Sm26 woven wool felt

tionai Consuma	DIES	
Code	Specification	Picture
3M05M	3M Trizact Synthetic Abrasion Disc, Orange, 5 Microns, Φ127mm/5 inch, 25 pcs/pack	
3MG35M	3M Trizact Synthetic Abrasion Disc, Green, 35 Microns, Φ127mm/5 inch, 25 pcs/pack	
3MG35M	Klingspor PL31B Grit P180 Abrasion Paper for EN388, each 230 x 280 mm, 50 pcs/pack	The state of the s

SM50 rating chart card

**Independent Testing** 

guidelines as a minimum requirement.

Verified by SDCE

(Here are some references)

Remark: G: Snagging

H: Surface Fuzzing

2, 3,4: Pilling and Snagging Grades

Where applicable, to ensure that all results are accurate,

Test Laboratories and sampling is conducted using ISO

**VERIFICATION FABRICS** 

unbiased and impartial, testing is carried out in Independent

Most Test Materials of Schröder are verified by SDCE VERIFICATION

1 pack 1.6 X 5m/pack SM25 abrasion resistant wool cloth 1 box 24 pcs/box Φ140mm

1 box 24 pcs/box Φ90mm

1 box 250 X 200mm/pc 25pcs/box

Dimensions: Φ31.5 +/- 1 mm \*140 +/- 1 mm Weight: 52.25g +/- 1g

## **PillSnag** ICI Pilling and **Snag Tester**



The PillSnag evaluates the pilling and hooking properties of

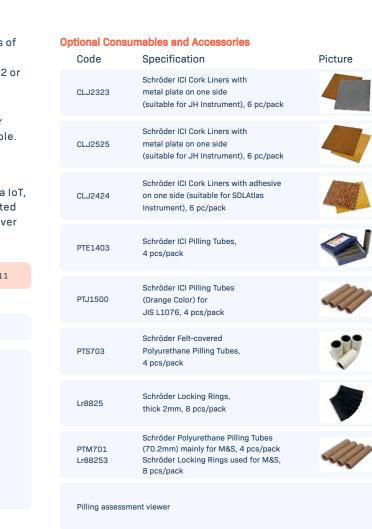
- It can be flexibly configured with a variety of standards, 2 or
- It can also be equipped with round or octagonal boxes specified by European clothing brands, and European or Japanese standard hook and loop boxes are also available.
- Forward and reverse rotation function

• Smart Pilling and Snag Test

The PillSnag can be connected to the SmarTexLab APP via IoT, also to ERP or LIMS. Universal Test Report can be generated and transferred. And you can receive reminders of test-over

	and instrume Standards	nt calibration from y	our smartphor	1e.
	ISO 12945-1	GB/T 4802.3	NEXT TM19	BS 5811
C	Optional Standa	ırds		
	BS EN 3	388-2016+A1-2018	SATRATM3	1 A/B
	•	<b>Power</b> 220/110V 50/60Hz		
		Weight 100kg		
	गगग	<b>Dimension</b> 470*860*900 mm(D <sup>2</sup>	*W*H)	
8	Specification			

Specification	
Chamber interior dimensions	235mm *235mm
	(excluding cork l
Chamber rotation speed	30-70 rpm (adjus
Chamber rotation count	2-999999 times



Mounting fixtures

(for easy sample installation)

## **TumblePill Random Tumble** Pilling Tester



Number of test chambers

Test chamber specification

Impeller shaft diameter

Compressed air pressure

**Optional Consumables** 

square 100×100 mm;

or round 100cm<sup>2</sup>

Diameter Φ146±1mm

Depth 152.4±1mm

1200r/min (speed adjustable)

Φ12.7mm

14kPa~21kPa

Chloroprene (Embossed

Schröder ASTM D3512

Schröder ASTM D3512

Gray Cotton Sliver, 1 yds/pack

Cork Cylinder Liners,

50 pcs/pack

/ adidas, 1 pc/pack

Ribbed Rubber) Liners for JIS

Sample size

Impeller length

Rotation speed

CHL512140

CST1001

- The TumblePill tests textiles for pilling. It simulates the friction and tumbling of actual use.
- The sample in the test chamber can tumble at a high, constant speed.
- The compressed air will flow smoothly to the chamber to prevent the sample from sticking to the cylinder walls. • The liner surface is flat and closely adhered to the walls to avoid movement. All this guarantee more reliable test
- The Impeller can be taken apart. it can be replaced with different shapes to meet various standards, such as ISO, ASTM, JIS, GB/T, and other standards.
- The transparent acrylic window and each chamber has light. They provide a good view of the sample test status. Smart Random Tumble Pilling Test The Tumble Pill can be
- connected to the SmarTexLab APP via IoT, also to ERP or LIMS. Universal Test Report can be generated and transferred. And you can receive reminders of test-over and instrument calibration from your smartphone.

GB/T 4802.4

ASTM D3512
Optional Standards
ISO 12945-3

Standards



## **SmartSnag** ICI Mace Snag Tester



SmartSnag checks how easily a fabric can be hooked under normal wear. For evaluating the degree of hooking of outerwear and other fabrics, especially those made of chemical fibers or filaments.

• 10-minute test with reliable results. The ball has tungsten carbide needles evenly distributed on it. They contact the specimen in 360 degrees. This realistically reproduces the hooking scenario and makes the test results more reliable. Durable and low-noise. Precise and high-grade motor drive, smooth running, and low noise. The whole shell and main structure are made of hard, rust-free, impact resistant oxidized aluminum alloy and stainless steel. They are still as

	ood as new andards	after many	years.	-
	ASTM D3939		GB/T 11047	JIS L1058
	•	<b>Power</b> 220/110V	50/60 Hz	
	Å	<b>Weight</b> 62kg		
	יייייי	<b>Dimensior</b> 900*460*3	) 390 mm (L*W*H)	
Sp	ecification			

Working width of guide bar

and guide bar

Distance between nail hammer

Specification Schröder ASTM D3939 FST1813 Snagging Felt Sleeves Schröder ASTM D3939 Snagging Mace Ball Set(Mace ball, Tungsten Carbide Point, Chain), 1 set/pack Specification SDCE Verification Fabrics - Physical, Per Meter SDCE Verification Fabrics -Pilling, Per Meter SDCE Verification Fabrics - Snagging, Per Meter Rotating speed of cylinder the standard speed is (60±2) r/min. 82 mm (including rubber)

## **Our Consumable Supplier**

Machine+Accessories 840\*720\*640mm(L\*W\*H

(The machine is 9 work -station type,

## About Schröder

Our textile testing materials supplier Schröder was established in 2000, specializing in providing and manufacturing Textiles high-quality materials. Schröder has cooperated with internationally recognized textile testing associations and textile testing equipment groups, such as AATCC, ASTM, SDC, and Fineetex Co. Ltd.











# Why Schröder

#### Better Reliability

The materials are tested with standard samples. The reference data is included in CoC (Certificate of Conformity)for most Schroder materials. The Certificate of Conformity of Schröder Test Materials (every

test material package is attached the related CoC):

# Schröder **Certificate of Conformity**

Product	Polyu	Polyurethane Tubes for ICI Pilling Box			
Packing	4 Tub	es/box			
Code	PTE14	PTE1403			
Lot Number	H823	H82380			
Standard(s)	BS EN	BS EN ISO 12945-1			
Test Results by SDCE	4				
Verification Fabric #2960					
Convex outer surface at its en	☑ Ye	s □ No			
Test Results by CNAS	Std.	L: 140±1mm	Outside dia.: 31.5±1mm		
Calibration	Act.	140.98mm	31.76mm		
	Std.	Thk: 3.2±0.5mm	Mass: 52.25g±1g		
	Act.	3.45mm	52.40g		

This is to certify that the above mentioned product has been evaluated according to standard and conform to the specifications for manufacturing and performance outlines in related standards. **Independent Testing** Where applicable, to ensure that all results are accurate, unbiased and impartial, testing is carried out in Independent Test Laboratories and sampling is conducted

Please ensure that the product is retained in its original packaging, which contains the

using ISO guidelines as a minimum requirement.

### ChiuVention SmarTexLab Solution

#### 30% More Reliable

Reliable and easy-to-use smart instrument designed by German Team and SmarTexLab system, which can finish the work: identifying samples by code scanning, smart sample cutting and automatic sample making, as well as automatic program selection, machine vision inspection, and AI intelligent algorithm to obtain test results. Finally the system can automatically output and send test reports. Professional operation is no longer required, which greatly reduces human errors and improves test reliability by about 30%.

#### 50% Faster

Enter the sample info into the system. Select the test requirements to generate QR codes. The smart cutting machine scans and cuts the samples in one go. The lab technician receives the info and notifies receipt of the samples. Then, the instrument scans the codes and installs the samples. It automatically selects a program and completes the test. After setup, all original records will be uploaded to the SmarTexLab system. All test items will be summarized to output a report. The related parties can view the reports from smartphones or computers. After the seller tests the inventory, the buyer can use it in production. This saves time, as there is no need to repeat the test. The whole process is about 50% faster.

#### **About ChiuVention**

ChiuVention was incorporated in Europe, the U.S., and China. Designed in Germany, we specializes in developing smart instruments for functional textiles and testing digitalization. ChiuVention is the first company in the world to propose the "SmarTexLab"and to promote the digital future of textile testing together with the world's top sports

ChiuVention, formerly known as TESTEX, which was founded in 2010 and focuses on the international market, fully started the smart testing innovations in 2020. At ITMA 2023 in Milan, Italy, with the newly created smart textile laboratory system SmarTexLab and a series of smart instruments, ChiuVention finished the global launch, which was widely recognized in the international arena. ChiuVention has attracted top sports brands and research groups. It has since cooperated with them to develop smart testing tools for digital textiles and functional fabrics. ChiuVention is sold in 42 countries and regions through the global agent network, the main markets are European countries and the United States. Recognized and recommended by the world's first-tier apparel brands,

ChiuVention is also growing rapidly in recent years in Southeast Asia and China's market. We have been serving third-party testing organizations such as SGS, Intertek, BV, and sports and fashion brands such as NIKE, adidas, Anta, Decathlon, etc. for more than ten years and has gained a good reputation.

ChiuVention insists on customer-centeredness, takes the digital future of textile testing as our mission, and aspires to be the global leader of smartt textile instruments! TEST SMART NOW!

#### ChiuVention Instrument Ltd

No.1. Ganyuan Industrial Road Shimei, Wanjiang, Dongguan, Guangdong, China

+86 769 2329 4842

+86 1802 5114 082 sales@chiuvention.cor

www.chiuvention.com

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