



# PILLING TESTERS

Test and grade pilling or fuzzing

# Testing for Pilling

Pilling of woollen and knitted fabrics has long been a problem for the textile industry. The development and wide use of man-made fibers in apparel has made pilling a more serious issue.

SDL Atlas provides a wide variety of standards and innovative instruments to predict and grade a fabric's propensity to pill or fuzz.

## RotaPill Pilling and Snagging Tester

The RotaPill Pilling and Snagging Tester offers numerous options for testing fabrics. From the standard ICI Pilling and Snagging Box to the M&S drums to the Octagonal Snagging Drum, the RotaPill offers easy and reliable results.

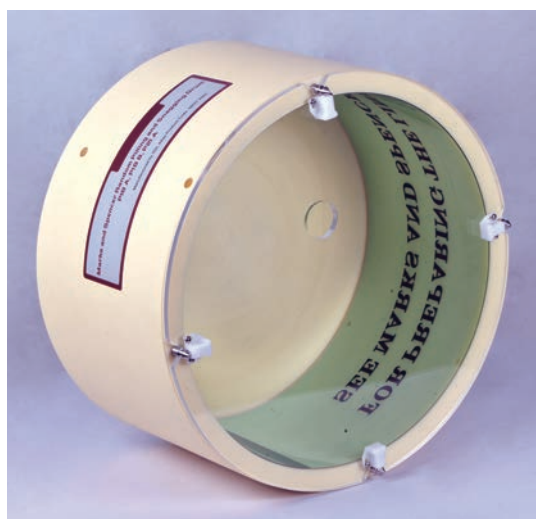
The color touchscreen has all of the most common standards preloaded, so that tests can be started with just a couple of touches. Magnetic backed cork liners make cork changes easy without the need to remove the box from the drive.

Pilling box can be converted to snagging box easily without the need to drill holes.

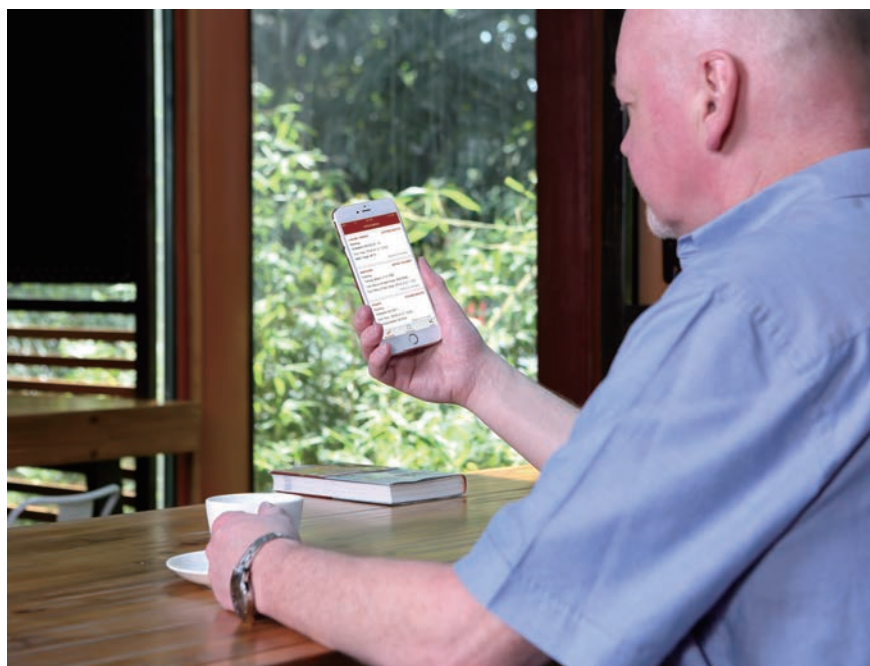
Available with 2 or 4 drive positions.



4 Position RotaPill with ICI Pilling and Snagging Boxes



M&S Pilling and Snagging Drum



Testing status notifications are available via RotaPill and Martindale instruments. Open a good grasp of the testing status with a gl



## Random Tumble Pilling Tester

The longstanding standard instrument for ASTM D3512, the SDL Atlas Random Tumble Pilling Tester has provided consistency in pilling tests for decades. Stainless steel rotors tumble unmounted fabric samples within a cork-lined chamber, duplicating the random wear a textile will encounter during actual use.

Lights inside each sample chamber allow clear viewing of the test in progress while compressed air is injected into the test chambers to assist the tumbling action.

The instrument comes standard with impellers for ASTM D3512, other impellers available as well. Comes in either 2 or 4 drive chamber models.

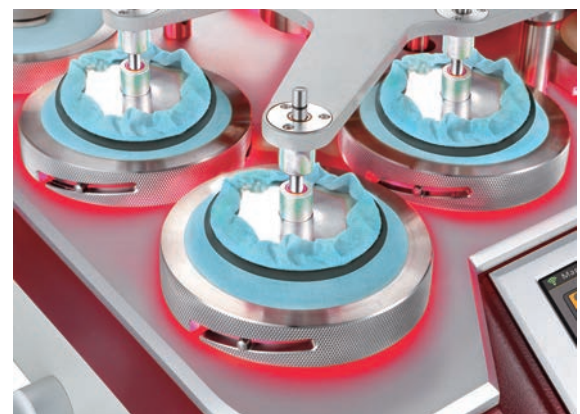
## Martindale Abrasion and Pilling Tester

The Martindale is a versatile instrument capable of multiple abrasion and pilling tests for all types of fabrics. Purposefully designed to be the most intuitive option on the market, SDL Atlas Martindales deliver the exact abrasion or pilling movement required by all international and retailer standards. The instrument's sleek, functional design enhances the ease of use and reliability of results. Multiple speeds can be input to create custom tests as necessary.

A full color touch screen controller, with the most common functions accessible in one or two touches, makes this the easiest Martindale in the market to use.

The 6, 8 and 9-position instruments are designed to conserve valuable bench space while providing maximum testing capacity. These models also have individual station indicator lighting.

For smaller testing requirements, the Martindale is also available in a 4-position base model.



Martindale set up for Pilling Testing

via RemoteAccess, Remote Instrument Monitoring App (iOS & Android) for both operators can now view remaining testing time against the end of a test, giving them peace of mind of the Monitoring App.

# Pilling Evaluation and Grading Instruments

## Pillscope Assessment Viewer

Viewer for the assessment of pilling on fabrics against 5 standard photographs with Halogen high incident angled illumination. The comparison photographs of either knitted or woven fabrics are mounted on a 5 sided drum and used sequentially to grade the samples.

A Holoscopic viewer is also available for those who need to test for M&S Standards. The system uses holograms of knitted or woven fabrics on the 5 sided drums instead of the photographs.



## Universal Pilling Assessment Viewer

Suitable for all standards where the assessment of pilling on fabrics is necessary, whether against control fabrics or photographs. The viewer uses D65 Artificial Daylight (with CWF optionally available).

### Suitable for use with:

- Martindale Pilling
- ICI Pilling
- ICI Snagging
- Random Tumble Pilling
- Brush/Sponge Pilling

## PillGrade Automated Pilling Grading System

3D system that uses patent-pending technology to objectively grade fabric swatches for surface properties. The system outputs pilling and fuzziness data, such as pill sizes, quantities and pill density, in addition to the I.0 - 5.0 pilling grade according to both ASTM and ISO standards. PillGrade's unique approach to vision inspection enables the system to scan and grade fabrics of any weight, color and pattern.

Assessment report with captured image can be output as PDF for emailing.

### Advantages:

- Ensures objective, repeatable grades
- Ensures agreement throughout textile supply chain
- Easy and fast (about 5 seconds) to operate
- Allows immediate grading on the pilling tester after completion of the test
- Correlates to ASTM and ISO grade scales
- Compiles production/supplier pill data
- Measures and grades fuzziness
- PillGrade also grades snags



# Pilling Test Materials

Test Materials are a critical part of many textile tests. SDL Atlas produces and distributes a complete line of test materials designed specifically for testing on the SDL Atlas Pilling Testers including cork liners, cotton sliver, sample tubes, evaluation standard photos and much more.

These high quality test materials will ensure that each test is performed accurately and reliably as specified in the standards. Each batch is thoroughly tested to ensure conformity and consistency from batch to batch.



## Pilling Standards Matrix

### PILLING INSTRUMENT

STANDARD	PILLING INSTRUMENT				
	RotaPill	Random Tumble Pilling Tester	Martindale	Universal Wear Tester	PillGrade
EN ISO 12945-1	•				•
EN ISO 12945-2			•		•
EN ISO 12945-3		•			•
ASTM D3512		•			•
ASTM D3514				•	•
ASTM D4970			•		
NEXT TM 26			•		
NEXT TM 26A			•		
M&S P17			•		
M&S P18A	•				
M&S P18B	•				
M&S P18C	•		•		

Note: Additional accessories or configurations may be required to meet specific standards. Visit [www.sdlatlas.com](http://www.sdlatlas.com) or contact an SDL Atlas office for full solutions to testing standards.

# Providing Confidence

For over 60 years, the SDL Atlas companies have been providing confidence in standard based testing through expertise and global partnering. Our customers can be assured that they are making informed decisions based on accurate test results.

SDL Atlas experts work closely with standards committees and retailers on development of standards. Our engineers develop instruments to meet these standards. Our service team calibrates the instruments to exacting UKAS and internal standards. High quality test materials that are consistent from batch to batch are also produced and distributed by SDL Atlas.

## Test Materials

Test materials are a critical part of many textile tests. SDL Atlas produces and distributes a complete line of test materials. Each batch is thoroughly tested to ensure conformity and consistency from batch to batch.

Test materials selection include:

- Multifiber
- Cork Liners
- Abradents
- Phenolic Yellowing
- Detergents
- Ballasts
- Crocking Fabric

## Calibration & Service

- UKAS calibration
- ISO calibration
- Service support
- Factory trained representatives
- SDL Atlas service technicians



SDL Atlas is a UKAS accredited calibration laboratory No. 0688. With fully trained technicians located in Europe, Asia, and North America, we are prepared to support our customers in maintaining their investments and their confidence in their testing instruments.

Providing confidence in standard based testing  
through expertise and global partnering



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