



Martindale Abrasion and Pilling Tester Model: ADL-C13B



Application

To determine the abrasion and pilling resistance of all kinds of textile structures. Samples are rubbed against known abrasents at low pressures and in continuously changing directions and the amount of abrasion or pilling is compared against standard parameters.

Standard

Abrasion: GB/T 21196.2, GB/T 13775, ISO 12947, ASTM D4966,

IWS TM 112, M&S P19, Next 18, SN 198529, TWC 112, JIS L1096, (ISO17076-2 ball plate method ,optional)

Pilling: GB/T 4802.2, ISO12945-2, ASTM D4970, IWS TM 196, M&S P17, Next TM26, SN 198525



Features

- Standard: Lissajous figure.
- Working positions: 4, 6, 8, 9 optional.
- Counting Method: 1) count up. 2) count down.
- The unique design allows removal of individual sample holders for examination without lifting the top motion plate.
- Standard sample holders with 9 and 12kpa weights included.
- PLC, 7 inches color touch screen, Chinese and English operation interface.
- Weights and key components are made up by stainless steel which is well-formed and durable in use.
- To prevent distortion, the top motion plate was special made up by 316 aluminum alloy.

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Consumables



Needed consumables for tests.

Weights



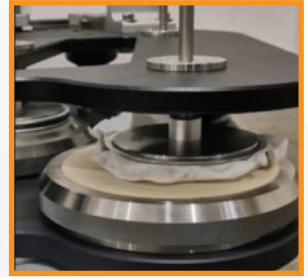
9Kpa
12Kpa

E-Stop Button



Stop for emergency.

Put Sample



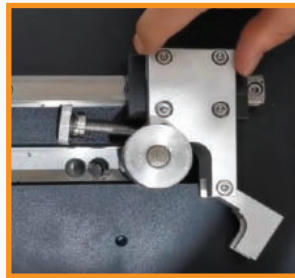
After put sample for test, put weights according to standards.

Cover



New flip-open designed.

Special Bearing Design



Only change the position of bolt, no need to remove the whole cover.
From inside to outside, A, B, C places.
Abrasion test: put bolt to C.
Pilling test: put bolt to B.

Control Panel



Touch screen.

Accessories box



Weights 9Kpa
Weights 12Kpa
Pen 1pc
Pilling device
Abrasion device
(Others pls refer to fitting A)

Accessories A

- Abrasion weight and holder - 1set
- Pilling weight and holder - 1set
- Standard abradents fabric - 2 pcs for each head
- Standard backing foam 38mm - box of 60pcs
- Standard woven felt discs 140mm - 2 pcs for each head
- Standard woven felt discs 90mm - 2 pcs for each head
- Photographs (copy one) - 1set
- Sample cutting die(Φ38mm , Φ90mm, Φ140mm) - 1pc for each size
- Pressing weight - 1pc
- Auxiliary device for specimen mounting - 1pc
- Steel ball - 3pcs
- Power line - 1pc



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Accessories B

- EMPA Photographic standards for pilling test (3 x 4 knitted) - Optional
- EMPA Photographic standards for pilling test (3 x 4 woven) - Optional
- SM 50 Photographs for pilling test IWS + ASTM. 4 Sets 1-5 (Plain, Twill A, Twill B, Blanket) - Optional
- Standard abradents fabric - Optional
- Standard backing foam $\Phi 38$ mm - Optional
- Standard woven felt Discs 140mm - Optional
- Standard woven felt Discs 90mm - Optional
- Ball plate for ISO17076-2 - Optional
- Ring weights 457g/Pc for EN 16094 - Optional

Key Specifications

Model	ADL-C13A	ADL-C13B	ADL-C13C
Working positions	4	6	9
Control mode	PLC control and touch screen display		
Counter range	0~999999 times		
Test pressure	Abrasion test	<ul style="list-style-type: none"> • Specimen holder: (198 \pm 2)g • Larger loading piece: (597\pm5)g • The sum mass: (795\pm 7)g , for workwear , upholstery, bed linen and fabrics for technical use (nominal pressure of 12kpa) 	
	Pilling test	<ul style="list-style-type: none"> • Specimen holder: (198 \pm 2)g • Smaller loading piece: (397\pm5)g • The sum mass: (595\pm 7)g, for apparel and household textiles, excluding upholstery and bed linen (nominal pressure of 9kpa) 	
Holder effective diameter	<ul style="list-style-type: none"> • Abrasion Holder: $\Phi(28.65 \pm 0.05)$mm • Pilling Holder: $\Phi(90 \pm 0.10)$mm 		
Rotational speed	47.5 \pm 2.5r/min		
Pressing weight	Mass: (2.5 \pm 0.5) kg Diameter: $\Phi(120 \pm 10)$ mm		
Power supply	AC220V 50/60Hz		
Dimensions (L x W x H)	60 \times 55 \times 41cm	88 \times 61 \times 41cm	90 \times 62 \times 41cm
Weight	75kg	130kg	150kg

**Technical Data Subject to change without notice.*

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Our Products

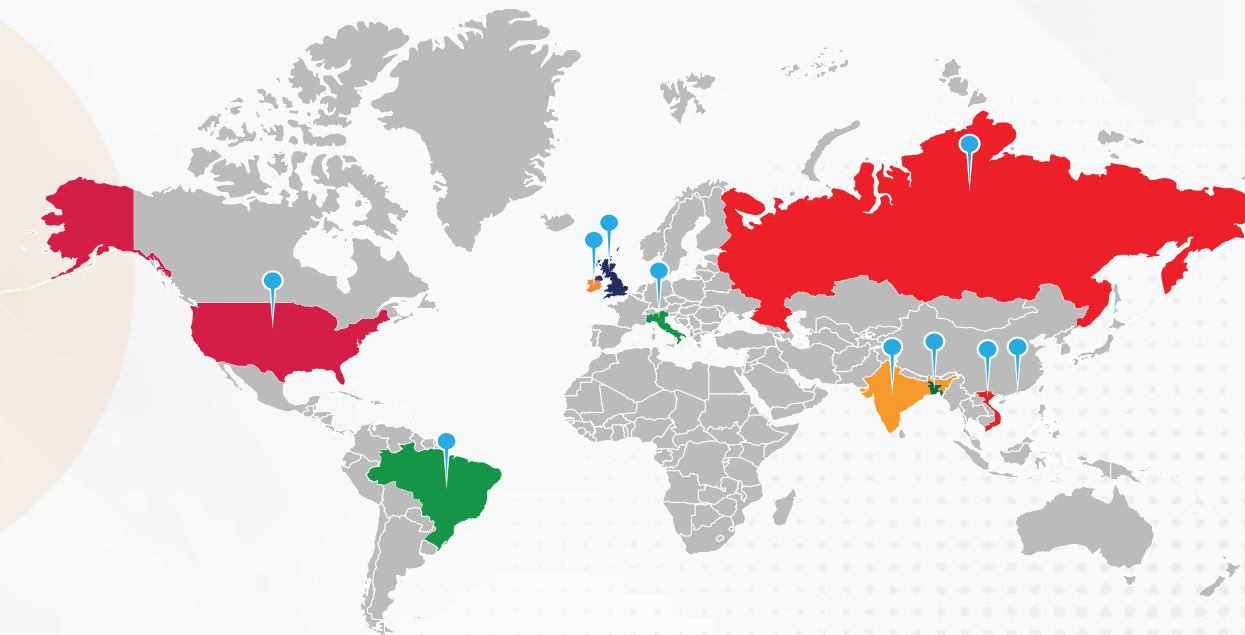
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