

Martindale 900 Series™

ABRASION AND PILLING TESTERS

In response to market demand, James H. Heal has designed a brand new generation of Martindale instruments: **The 900 Series**

All previous models and accessories have been completely re-designed, creating a new series which combines the best in **style, quality, affordability and functionality**; introducing users to the next level in abrasion and pilling testing.



Maxi-Martindale 909 (9 station)



Midi-Martindale 905 (5 station)

New features include:

- ✓ Suitable for Fabric Abrasion, Fabric Pilling, Glove Abrasion, Sock Abrasion and Leather (Ball Plate) testing
- ✓ Can be used for many other applications, including wet and high friction tests
- ✓ Complies with all known Martindale standards and methods

- ✓ Versatile and intuitive Key Pad User Interface
- ✓ Easy change of motion
- ✓ Comfortable and easy access to every station from the front, without removing the top plate
- ✓ Finger grips to facilitate (when required) removal of top plate
- ✓ Low power consumption

Inclusive of:

- > Full support from HEALINK – worldwide after-sales support service
- > UKAS Calibration
- > 18 months' warranty
- > Quality Assured Consumables

- HOW TO ORDER

902-932	Maxi-Martindale 909 Abrasion and Pilling Tester 85-264VAC 50/60Hz	
Instrument is supplied as standard with 9 working stations		
902-931	Midi-Martindale 905 Abrasion and Pilling Tester 85-264VAC 50/60Hz	
Instrument is supplied as standard with 5 working stations		
Calibration		
202-409	UKAS Certificate of Calibration for Martindale	
201-828	ISO Certificate of Calibration for Sock Abrasion Station Kit (up to 5 kits)	
201-920	ISO Certificate of Calibration for Sock Abrasion Station Kit (up to 9 kits)	

ACCESSORIES - ABRASION ISO 12947 - I	
794-516	Abrasion Station Kit Comprising: 1 x Sample Holder 1 x 9 kPa Weight 1 x 12 kPa Weight } Recommended minimum order quantity: 4
902-222	Circular Sample Cutter For the rapid and accurate preparation of 38mm diameter test specimens
766-200	HEAL'S Grey Scale for Assessing Colour Change For assessing the change in colour of test specimens
788-761	Lissajous Figure Marker Pen For checking the Lissajous Figure according to ISO 12947-1

CONSUMABLES - ABRASION	
701-202	Pack (5m) Abrasive Cloth
701-203	Roll (50m) Abrasive Cloth
701-207	Pack (100) Pre-cut Discs of Abrasive Cloth
714-602	Pack (20) Non-Woven Felt Pads (140mm diameter)
714-612	Pack (20) Woven Felt Pads (140mm diameter)
786-256	Pack (2000) Pre-cut Discs of Foam (38mm diameter)

ACCESSORIES - PILLING BS EN ISO 12945 - 2	
794-517	Pilling Station Kit Comprising: 1 x Sample Holder 1 x Sample Retaining Ring 1 x Ring Weight } Recommended minimum order quantity: 3
525-256	Specimen Mounting Mandrel This is an essential accessory for mounting specimens for the pilling test
766-451	Full Set EMPA Photographic Standards This complete set contains 3x4 mounted photographs for woven fabrics and 3x4 for knitted fabrics

CONSUMABLES - PILLING	
714-602	Pack (20) Non-Woven Felt Pads (140mm diameter)
714-612	Pack (20) Woven Felt Pads (140mm diameter)
714-601	Pack (20) Non-Woven Felt Pads (90mm diameter)
714-611	Pack (20) Woven Felt Pads (90mm diameter)
356-301	Pack (10) Sample Retaining Rings

ACCESSORIES - SOCK TESTING EN 13770 - METHOD I	
794-518	Sock Abrasion Station Kit Comprising: 1 x Sock Sample Holder 1 x Pinned Ring 1 x Precision Ball } Recommended minimum order quantity: 4
525-311	Block Spanner Adaptor (for Sock Testing - one per machine)
526-041	12 kPa Weight (one per Kit) - per weight

CONSUMABLES - SOCK TESTING	
393-254	Pack (2) Spare Precision Balls
701-202	Pack (5m) Abrasive Cloth
714-612	Pack (20) Woven Felt Pads (140mm diameter)

ACCESSORY - ABRASION & PILLING	
902-221	Sample Cutter For the rapid and accurate preparation of 140mm diameter upper and lower specimens for the pilling test

Physical Data	Depth	Height	Width	Weight
Maxi-Martindale 909 (9 station)	670mm	320mm	890mm	80kg
Midi-Martindale 905 (5 station)	670mm	320mm	700mm	59kg

- TECHNICAL DATA

	Abrasion	Pilling	Sock Abrasion
Scope	Woven, knitted and certain non-woven fabrics	Woven and knitted fabrics (staple spun yarns)	All fibre compositions and all end uses
No. of specimens	Up to 5 (905) and up to 9 (909)	Up to 5 (905) and up to 9 (909)	Up to 5 (905) and up to 9 (909)
Exposed area of test specimen	6.45cm ²	6.45cm ²	3.14cm ²
Working pressure on test specimen	9 kPa (apparel) 12 kPa (upholstery)	2.5 cN/cm ² (knitteds) 6.5 cN/cm ² (wovens)	23.86 kPa
Rotational speed	47.5 +/- 2.5rpm	47.5 +/- 2.5rpm x 1.5 standard speed	47.5 +/- 2.5rpm
Total stroke of drive units	60.5 +/- 0.5mm	24.0 +/- 0.5mm	60.5 +/- 0.5mm
Parallelism of top plate to abrading tables	0.05mm	0.05mm	0.05mm
Max. circumferential parallelism of sample holders to abrading tables	0.05mm	0.05mm	0.05mm



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