



Heritage & Innovation in Textiles

# MARTINDALE AXYZ

Advanced Abrasion & Pilling Tester

**Elastocon®**

Tvinnargatan 25 • SE-507 30 Bråmhult  
Tfn: +46 33 323 39 00 • info@elastocon.se  
[www.elastocon.se](http://www.elastocon.se)

An innovative,  
digitally operated  
**abrasion and  
pilling tester**,  
featuring retracting  
abrading tables for continuous  
**unaided testing.**



## FEATURES

- Digital Lissajous operation.
- Retractable abrading tables, for station specific flexibility.
- Automated test switch between abrasion and pilling, requiring no user interaction.
- Compatible with all abrasion and pilling accessories.
- Spring-loaded accessories drawer.
- Lockable and removable hinged top plate.
- Built-in standard and set-up configuration.
- Proprietary firmware, designed for bespoke testing sequences.

## BENEFIT

- Run continuous, uninterrupted testing to increase output during non-contact time.
- Save operator time with automated switching between abrasion and pilling.
- Pre-set testing schedules can isolate and exclude set heads, whilst continuing with others.
- The highest test head capacity of any Martindale available, increasing the volume of your results.

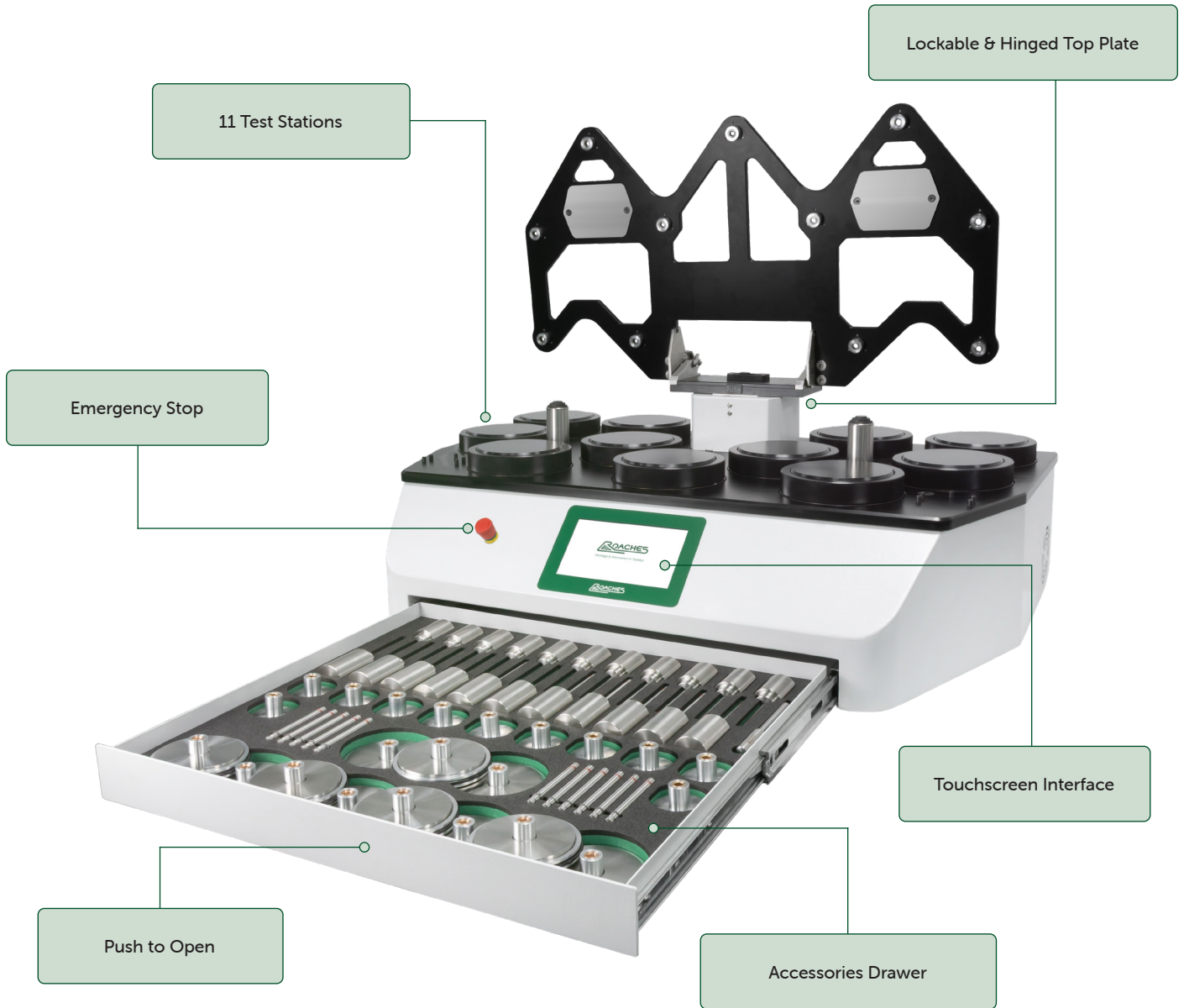
XYZ has **11 test stations**, the highest capacity of any Martindale tester, and features **digital Lissajous** operation for automated switching between **abrasion and pilling tests**



Read more on our website



# MACHINE FEATURES



# CONTROL SYSTEM

Elevate your laboratory efficiency with our proprietary touchscreen interface. Designed to bridge the gap between complex testing standards and user-friendly operation, our software provides a seamless, intuitive experience that minimizes downtime and eliminates human error.

State: ABRASION PRIORITY

ROACHES

Live Lissajous

Information

Stop

## Run Screen

See a real-time overview of your testing environment. Beyond monitoring the active stage of each programmed head, this screen features a live Lissajous visualisation.

Head 11

ISO 12947-2

Program

ISO 12947-2

STAGE 1	20000	FIGURE
STAGE 2	10000	60.5mm Lissajous
STAGE 3	5000	MAX FELT COUNT
STAGE 4	1000	500000
STAGE 5	0	MAX TOP ABR COUNT
STAGE 6	0	0
STAGE 7	0	MAX BTM ABR COUNT
STAGE 8	0	50000

01

- 9kPa OR 12kPa LOAD WEIGHT
- SPINDLE
- SAMPLE HOLDER BODY
- HOLDER INSERT
- PU FOAM
- SAMPLE
- SAMPLE HOLDER NUT
- ABRADANT FABRIC
- WOVEN FELT PAD
- ABRADING TABLE

BACK CONFIRM

PREVIOUS NEXT

## Program Screen

The Program Screen allows you to configure complex testing sequences with ease. Users can instantly load pre-programmed industry presets or define custom multi-stage testing.

Head 11

ISO 12947-2

Information

STAGE 1	201 / 20000	FIGURE
STAGE 2	0 / 10000	60.5mm Lissajous
STAGE 3	0 / 5000	MAX FELT COUNT
STAGE 4	0 / 1000	500000
STAGE 5	0 / 0	MAX TOP ABR COUNT
STAGE 6	0 / 0	0
STAGE 7	0 / 0	MAX BTM ABR COUNT
STAGE 8	0 / 0	50000

01

- 9kPa OR 12kPa LOAD WEIGHT
- SPINDLE
- SAMPLE HOLDER BODY
- HOLDER INSERT
- PU FOAM
- SAMPLE
- SAMPLE HOLDER NUT
- ABRADANT FABRIC
- WOVEN FELT PAD
- ABRADING TABLE

BACK

## Information Screen

Displaying live data for each stage keeps the user informed of real-time progress. To eliminate setup errors, it features an illustration showing the holders and test materials required for each test.

Head 11

ISO 12947-2

Control

PAUSE

NEXT STAGE

PRIORITY

CURRENT STAGE	1	STATUS	IN PROGRESS
NEXT STAGE	2	TOP ABRADANT	1152
TOTAL COUNT	139	BTM ABRADANT	1152
STAGE TARGET	20000	TABLE FELT	1152

BACK

HEADS UP

RESET HEAD

END TEST

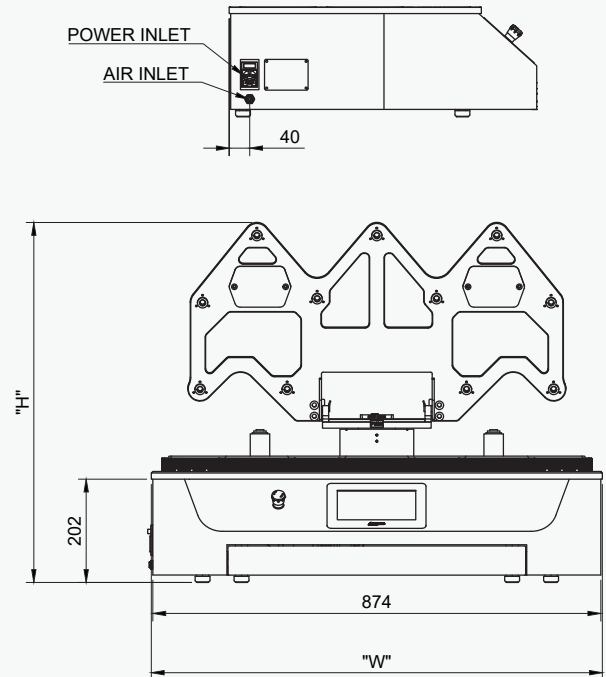
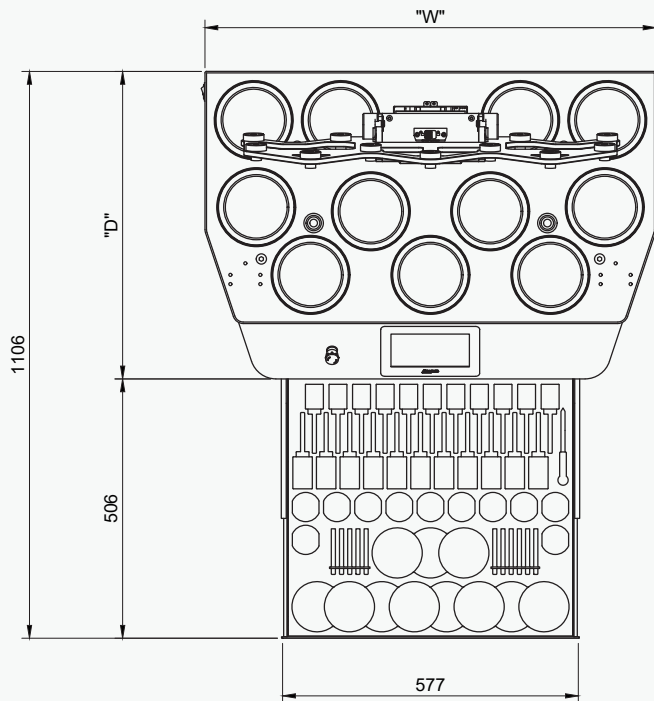
## Control Screen

Manage the hardware by toggling the up and down positions of the test heads, or use the interface to reset specific stations or conclude tests. Prioritise tests without the interruption of other samples.

## DIMENSIONS & WEIGHTS

Model	Height (H) <sup>1</sup>	Width (W)	Depth (D) <sup>2</sup>	Weight <sup>3</sup>
6 Head	710 mm	625 mm	600 mm	135 kg
9 Head	710 mm	820 mm	600 mm	156 kg
11 Head	710 mm	880 mm	600 mm	160 kg

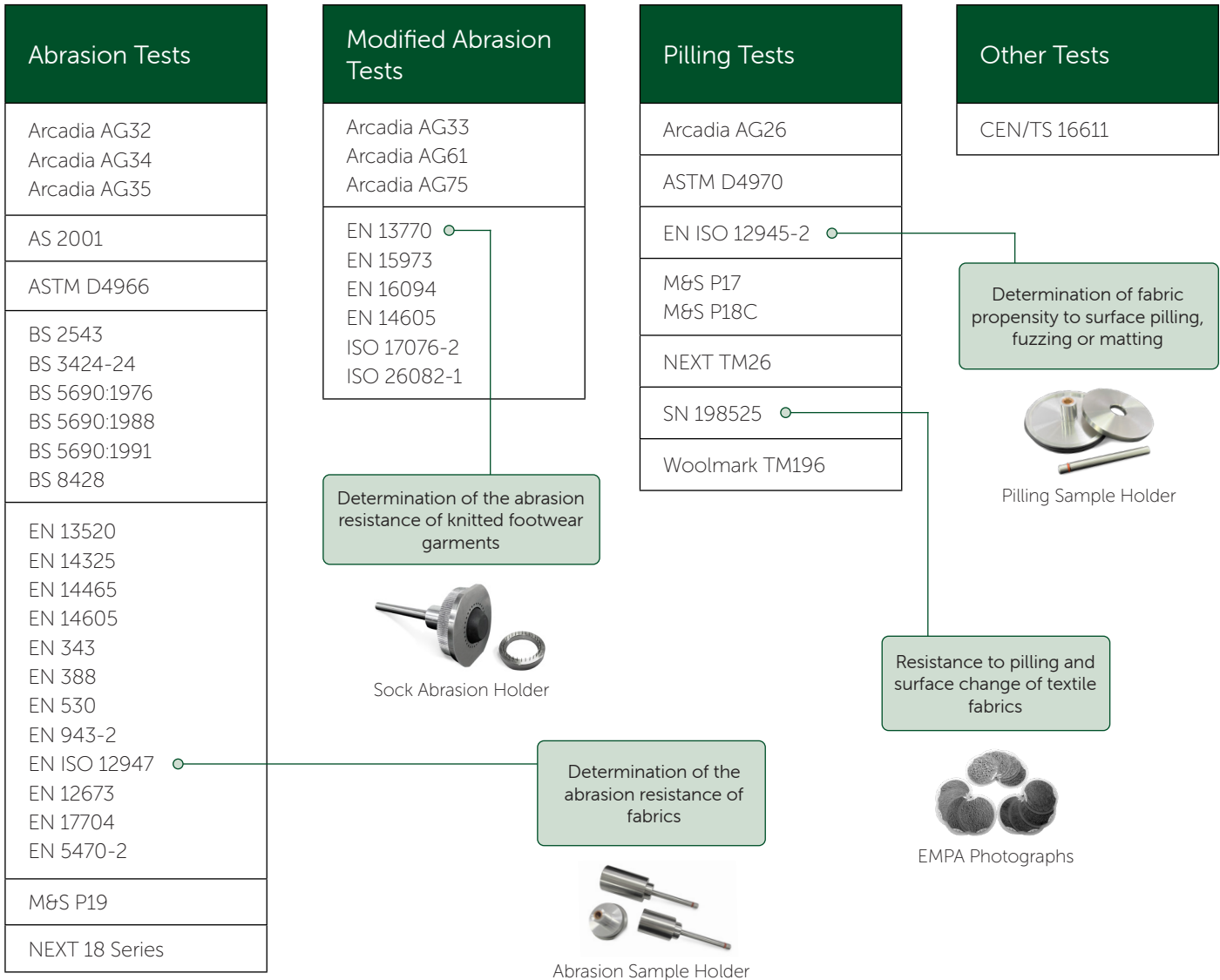
- 1: Height is with top plate in upwards position  
 2: Depth is with the storage drawer in closed position  
 3: Weight includes all abrasion and pilling holders



## SPECIFICATIONS

Voltage	Frequency	Phases	Amp	Wattage	Air Supply	Water Supply
88V to 264V	50/60Hz	One (1)	1.0A to 4.5A	400W	6 Bar Minimum	Not Required

# STANDARDS



Roaches machines meet specifications set by leading retailers such as:



MARKS & SPENCER



DECATHLON

next

George.



## TEST MATERIALS

Order Code	Description
2000-1001	Woven Felt Discs (90mm Diameter) - Pack of 24
2000-1002	Non-Woven Felt Discs (90mm Diameter) - Pack of 24
2000-1003	Woven Felt Discs (140mm Diameter) - Pack of 24
2000-1004	Non-Woven Felt Discs (140mm Diameter) - Pack of 24
2000-1005	Wool Abradant Fabric - 5 Metre Pack
2000-1006	Wool Abradant Fabric (165mm Diameter) - Pack of 100
2000-1007	Polyurethane Foam Sheets (25cm x 20cm) - Pack of 25
2000-1008	Polyurethane Foam Discs (38mm Diameter) - Pack of 1000
2000-1009	38mm Diameter Sample Cutter - Each
2000-1010	90mm Diameter Sample Cutter - Each
2000-1011	140mm Diameter Sample Cutter - Each
2000-1012	Cutting Board (300mm x 200mm x 14mm) - Each
2000-1013	Blades for 38mm Sample Cutter - Pack of 10
2000-1014	Blades for 90mm, 113mm & 140mm Sample Cutter - Pack of 10



☎ +44 (0)1924 420083    ✉ sales@roaches.co.uk    🌐 www.roaches.co.uk

Unit 11 Springwell 27, Dark Lane, Birstall, West Yorkshire, England, WF17 9LN