

G235 M4 Martindale abrasion tester

► Product Introduction

This instrument is designed by absorbing the advantages of similar instruments at home and abroad. It has a beautiful appearance and is easy to operate. The microcomputer system adopts two counting methods, which is intuitive and generous, and is easy to set. Four stations can be tested at the same time to improve test efficiency. The instrument is also equipped with two Lissajous 24mm×24mm and 60.5mm×60.5mm motion trajectories and a variety of supporting accessories, which can adapt to various test method standards.

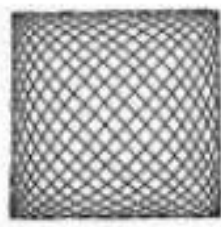
This instrument is suitable for testing the pilling degree of fabrics such as GB/T4802.2, ASTM D4970, ISO12945-2, etc. Its principle: a round sample and fabric of the same material are rubbed together in a Lissajous graphic motion trajectory under a given pressure. After reaching the specified number of revolutions, the pilling grade of the sample is evaluated.

It is also suitable for fabric abrasion resistance tests such as GB/T13775, ASTM D4966, ISO12947, etc.

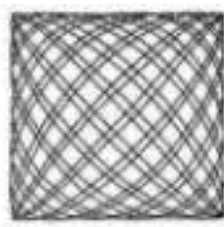
Its principle: under a certain pressure, the circular fabric sample rubs against the standard abrasive according to the motion trajectory of the Lissajous curve, causing damage to the sample.

The wear resistance of the fabric is expressed by the number of times the sample is damaged.

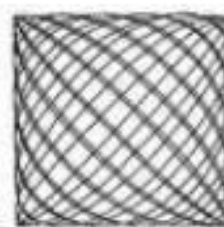
Lissajous Curve:



A. Acceptable



B. Unacceptable



C. Unacceptable

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► Complied Standards

GB/T4802.2, ASTM D4970, ISO 5470, GB/T 21196.2, ISO 12945-2, BS EN 388/530, ISO 12947-2, ASTM D4966, GB/T13775 etc.



► Technical parameter:

Number of workstations: 4

Counting display: 0~999999 times (four stations count independently)

Maximum stroke: $24 \pm 0.5\text{mm}$, $60.5 \pm 0.5\text{mm}$

Relative movement speed between holder and grinding table: $50 \pm 2\text{r/min}$

Pressurized material parameters:

a. Clamp: 200g

b. Clothing sample weight: 395g

c. Furniture decoration sample weight: 594g

d. Stainless steel butterfly piece: 260g

Effective friction diameter of grinding block:

Type A 200g (1.96N) friction head (9KPa) $\phi 28.8$

Type B 155g (1.52N) friction head (12KPa) $\phi 90$