PROTECTIVE LEVEL TESTING AGAINST MECHANICAL RISKS

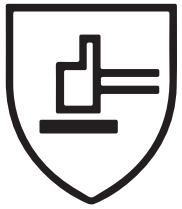
CUT RESISTANCE TESTERS

Compact and user-friendly benchtop instruments to determine the resistance to cutting by sharp objects, in compliance with the main international Standards. Particularly recommended to measure the resistance to cutting of PPE (Personal Protective Equipment) like protective gloves and clothes.

Available models:

- **Glove Cut Tester, code 3394A** (with circular blade)
- **Linear Cut Resistance Tester, code 3394B** (with linear blade)

EN 388



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Abrasion	1-4
Circular cut	1-5
Tear	1-4
Puncture	1-4
Linear cut	A-F
Impact protection	

CUT RESITANCE RATING
All above testing available from MESDAN®

MESDAN LAB

GLOVE CUT TESTER CODE 3394A
LINEAR CUT RESISTANCE TESTER CODE 3394B

Circular Glove Cut Tester, code 3394A

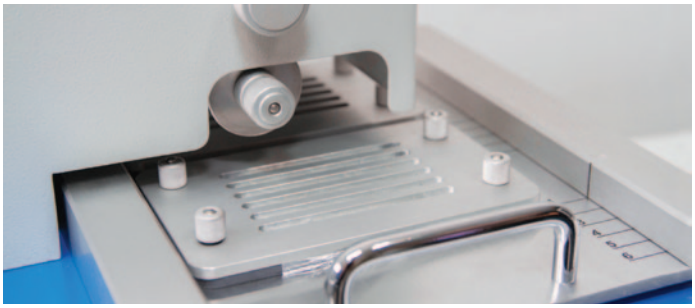
Main Features:

Equipment to test the resistance to cutting of materials used for protective gloves and clothes, according to the **EN 388** Standard.

Test Method: This type of test is based on the number of cycles required to cut the material at a constant speed.

The instrument will automatically stop as soon as the material to be tested - previously situated on the sample holder - is cut.
The digital display on the control panel will show the number of cycles performed to cut the sample.
The final result is obtained by comparing the number of cycles performed by the instrument to cut the sample, with the number of the cycles indicated by the reference Standard to cut the same sample.

The cut resistance rating ranges from 1 to 5, where 5 indicates the highest level of cut protection (see picture "CUT RESITANCE RATING").



INCLUDED ACCESSORIES

- Digital control panel
- Safety cover
- 1 roll of aluminium foil (0.01 mm thickness)
- 1 set of filter paper, 65 g/m²
- 1 pack of reference fabric
- 2 sample holders
- 10 blades

OPTIONAL ACCESSORIES & CONSUMABLES

Kit 115 Volt Transformer	Code	2520.300
Circular blade	Code	3394A.8
Aluminium foil, 0.01 mm thick, 16 m long (1 roll)	Code	3394A.2
Set of 100 pieces of 65 g/m² filter paper	Code	3394A.4
Piece of standard fabric, 50 x 160 cm	Code	3394A.6
Black rubber base for sample holder (2 pcs)	Code	3394A.16
Calibration report	Code	3394A.CC1

REFERENCE STANDARDS

UNI EN 388 6.2.2 (2017), UNI EN 13594

DIMENSIONS / POWER SUPPLY

Weight: 21 kg
Dimensions: (L) 550 x (W) 320 x (H) 260 mm
Power supply: 230 Vac, 50/60 Hz

Linear Cut Resistance Tester, code 3394B

Main Features:

To measure the resistance to cutting by sharp objects on protective clothing, including gloves, according to the reference Standards. Equipped with moveable 9-position sample holder, to perform multiple tests with different applicable forces.

- Digital control panel
- Applicable forces from 0.1 to 200 N
- Rocker arm with LOCK - UNLOCK lever, equipped with zeroing system
- Movable sample holder (9 different cutting positions).

Test Method: This cut resistance test is based on the amount of force required to achieve a cut using a straight blade. By means of a selectable constant and perpendicular force, at a speed of 2,5 mm/s, this device cuts the sample - using a blade of a standard sharpness- and measures the blade stroke with an accuracy of 0,1 mm.

The target value is the needed force to cut through the material in a 20 mm blade stroke.

The cut resistance rating ranges from A to F, where F indicates the highest level of cut protection (see picture).

INCLUDED ACCESSORIES

- Digital control panel
- Safety cover
- 1 set of combinable weights to reach forces from 61 N up to 200 N
- 20 linear blades
- 1 neoprene sheet for calibration
- 1 roll of bi-adhesive tape
- 1 roll of aluminium foil (0.01 mm thickness)

OPTIONAL ACCESSORIES & CONSUMABLES

Linear blade	Code	3394B.6
Aluminium foil, 0.01 mm thickness, 16 m long (1 roll)	Code	3394B.2
Neoprene sheet for calibration, 45 x 60 cm	Code	3394B.4
Bi-adhesive tape (1 roll)	Code	3394B.8
Set of two 70 N combinable weights, to reach forces from 61 N up to 200 N	Code	3394B.26
Calibration report	Code	3394A.CC1

REFERENCE STANDARDS

UNI EN ISO 13997, UNI EN 388 6.3 (2017), ASTM F2992/F2992M

DIMENSIONS / POWER SUPPLY

Weight: 39 kg
Dimensions: (L) 800 x (W) 390 x (H) 400 mm
Power supply: 230 Vac, 50/60 Hz

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ACIMIT ITALIAN TEXTILE MACHINERY

MANAGEMENT SYSTEM CERTIFICATION DNV ISO 9001 · ISO 14001