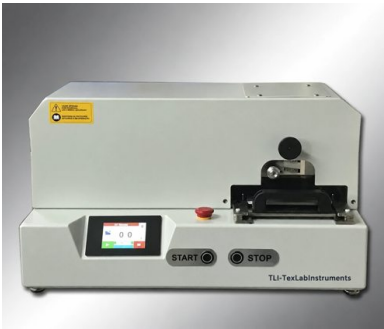


TXL-KMS-023 / 27 October 2026 · One-year manufacturer warranty

Cut Resistance Tester

Evaluates the cut resistance of gloves and protective materials with a rotating circular blade. The blade travels back and forth over the specimen and the number of cycles to cut-through is recorded.



Model technical data

1	The rotary circular knife moves 50 mm on above the test sample under 5 N pressure.
2	The device has a rotating circular blade with a diameter of 45 ± 0.5 mm and a thickness of 3 ± 0.3 mm.
3	The force applied by the blade to the fabric is 5 ± 0.05 N.
4	There is a digital counter on the device that can measure the number of cycles required to disconnect the test sample.

Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 100–300 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 650 × 500 × 500 mm (W × D × H).
Instrument weight	Approx. 30–60 kg net.
Gross / shipping weight	Approx. 58–100 kg gross; estimated packing allowance.
Lab requirements	Level, stable working surface; specimen conditioning follows the selected method.

Dimension order and approximate values are stated in each row. Packaging data are separate from instrument dimensions and net mass. Approx. rows are preliminary engineering estimates based on comparable equipment and function/capacity; they are not verified manufacturing measurements or standard requirements. Installation and shipment are finalised against the approved drawing and nameplate. Estimate scope: base product / one unit; external computer, bench and auxiliary plant excluded.

Specifications, dimensions, and power requirements are approximate and subject to change without prior notice for continuous design improvements.

Product technical specifications and images may vary according to manufacturing conditions and applicable standards.

Test and configuration

Measured output / function	Cut resistance index using a rotating blade
Parameters selected for the method	Blade, load, reference material and cut detection
Verification points	Blade condition, load, stroke and counter

Control and recording specification

Method-specific software and recording requirements follow. Delivered software modules are defined by the order scope.

- Method code and edition, specimen ID, operator and selected test parameters are linked to the record.
- The calculation and endpoint are defined by the selected method edition; instrument signals and operator assessments are kept distinct.
- Raw measurements, units, valid/invalid test flags and the reported result remain traceable.
- Calculations are checked against known inputs and an independent calculation; sensor channels are checked against calibration values.

Related test methods

EN 388

Listed methods are application references. Suitability is established by assessing hardware, method edition and calibration together.

Test parameters for the reviewed method

The values below were reviewed in selected clauses of the stated source edition. They are not a declaration of equivalence to a later edition or independent instrument verification.

EN 388:2016 / 6.2.2

1	Coupe blade diameter 45 ± 0.5 mm and thickness 0.3 ± 0.03 mm; horizontal travel 50 mm; force 5 ± 0.5 N and cutting speed 8 ± 2 cm/s. This rotary-blade test is distinct from the ISO 13997 TDM method.
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