

TXL-KMS-022 / 27 October 2026 · One-year manufacturer warranty

Zipper Endurance Tester

Zip fastener opening/closing cycle endurance test.



Model technical data

1	Repeated opening/closing durability assessment of zippers.
2	Transverse and longitudinal loads are applied to the specimen.
3	Tests use a defined speed and repeated operating cycles.
4	Loads, stroke and cycle limit are specified for the selected method.

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. 500 × 500 × 800 mm (W × D × H).
Instrument weight	Approx. 25–50 kg net.
Gross / shipping weight	Approx. 37.5–72.5 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	Zipper durability after repeated opening and closing
Parameters selected for the method	Transverse/longitudinal load, stroke, speed and cycles
Verification points	Loads, stroke, speed and cycle 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 16732

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 16732:2025 / F.2, F.3.1 / Table F.1, F.3.2 opening travel requirement

1	Annex F: vertical reciprocation 30 ± 1 cycles/min; one-way travel 75–90 mm (full cycle 150–180 mm). Spring balances: lateral 100 N, longitudinal 50 N; graduation/accuracy 1 N. Stringer angle at lowest slider position $60 \pm 10^\circ$, lateral clamp $10 \pm 5^\circ$.
2	Table F.1, lateral/longitudinal force per stringer (N): A 7/5; B 10/7; C 16/14; D 24/18; E 30/23.