

TXL-IPL-005 / 27 October 2026 · One-year manufacturer warranty

Yarn Evenness Tester

Detection of thin/thick places and neps by capacitive sensor. Provides high-precision data flow in yarn production and R&D processes. Its ergonomic structure facilitates daily routine tests.



Model technical data

1	Measures many parameters such as evenness (U%, CV%), thin and thick places and neps in yarns, rovings and slivers made of natural and synthetic fibres.
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Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 200–600 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 700 × 600 × 1000 mm (W × D × H).
Instrument weight	Approx. 60–110 kg net.
Gross / shipping weight	Approx. 91–162.5 kg gross; estimated packing allowance.
Lab requirements	Dry filtered compressed air if the pneumatic circuit is fitted; operating pressure and flow confirmed at delivery.

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	U%, CV%, thin/thick places and nep count
Parameters selected for the method	Feed speed, test length and fault thresholds
Verification points	Measuring channel, feed and reference specimen

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

ISO 16549

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.

ISO 16549:2021 / GOST ISO 16549:2023 (IDT) / 3–10, Annex A; implementation: 4.5, 5.2–5.3, 8.4, 9–10

1	Capacitance setup requires a suitable measuring slot, guides/pre-tension, adjustable feed and calibration. CVU is preferred; record thick/thin thresholds +50%/–50% and nep thresholds +200%/+280%.
2	Typical Lb for yarn/roving/sliver: 8/12/20 mm; recommended feed: 400/50/25 m/min respectively. These are method settings, not a claim of full instrument material-range coverage. Report length, speed, thresholds, CVU and imperfections/1000 m.