TXL-ELY-003 / 27 October 2026 · One-year manufacturer warranty

Cohesion Tester

Friction and cohesion force of fibers and slivers. Strengthens quality control processes by measuring the structural properties of fibers in detail at the micro level. Offers rapid calibration capabilities.

Model technical data

1	Cohesion force measurements 1-100 N.
2	Setting of passage speed 1-60 m/min.

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. 600 × 400 × 700 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	Cohesion force in sliver and roving (N)
Parameters selected for the method	Feed speed, specimen feed and material type
Verification points	Force and speed check

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

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