TXL-IPL-016 / 28 October 2026 · One-year manufacturer warranty

Interlace Count & Stability Tester (TL-IMG-02)

A target configuration under development for interlace counting on POY, FDY and DTY filament yarns and stability assessment under controlled force or draw ratio. Active pre-tension, force feedback and stored test recipes are planned. Features are subject to prototype validation and the final technical specification.



Model technical data

1	Target test modes: interlace counting; stability assessment at constant force and constant draw ratio.
2	Target feeding and drawing setup: active inlet pre-tension, independently controlled godets and a draw zone.
3	Target force measurement: force feedback in the draw zone and a second tension sensor on the measuring side.
4	Interlace detection: mechanical thickness scanning is targeted for POY/FDY/DTY; an optical sensor option is under evaluation for DTY/BCF.
5	Target interface: touch-screen HMI displaying speed, length, interlace count, interlaces per metre, force and draw ratio.
6	Target recording functions: stored test conditions, comparison of reference and after-load results, and exportable reports.
7	Target reported results: reference and after-load interlace density, force, draw ratio, speed, length, pre-tension and detection threshold. The stability calculation accounts for length changes caused by drawing.
8	Target protection functions: yarn-break and overload detection; start/stop and emergency stop.
9	These details describe a target configuration and are subject to prototype validation and the final technical specification.

Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 30–150 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 600 × 400 × 500 mm (W × D × H).
Instrument weight	Approx. 15–30 kg net.
Gross / shipping weight	Approx. 26.5–47.5 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	Interlace count and stability in filament yarn
Parameters selected for the method	Test length, speed, pretension and detection threshold
Verification points	Length, tension and reference interlace count

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.