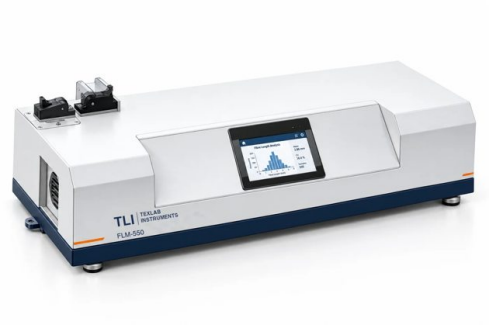
TXL-ELY-010 / 28 October 2026 · One-year manufacturer warranty

# Single-Fibre Length Analyser (TL-FLM-550)

Individual fibre length measurement on a compact laboratory platform. Each fibre end is placed at the 2.5 mm reference mark beneath the transparent upper jaws; the fibre is straightened without stretching and its length is read. The combined 5 mm held inside the two jaws is already included in the length calculation.




## Model technical data

| | |
|---|---|
| 1 | Fibre length capacity: up to 550 mm. |
| 2 | Housing width: 803 mm. |
| 3 | Housing height: 185 mm, excluding jaws. |
| 4 | Upper gripping surfaces: transparent plexiglass. |
| 5 | End insertion reference: 2.5 mm at each jaw. |
| 6 | Grip allowance: 5 mm total, included in the length calculation. |
| 7 | Sample loading: manual, one fibre at a time. |

## Physical specifications and utilities

| | |
|---|---|
| Electrical supply | Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent. |
| Power / connected load | Approx. 20–80 W connected load for preliminary planning. |
| Overall instrument dimensions | Approx. 850 × 400 × 400 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 | 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 | Fibre length and length distribution (mm) |
| Parameters selected for the method | Fibre preparation, measurement length and grouping method |
| Verification points | Length scale and reference length |

## Control and recording specification

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

• The need for integrated software depends on the method and selected hardware; manual instruments use an external test record.

• 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 6989

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.

TS 715 ISO 6989:2003 / 4, 6.2

| | |
|---|---|
| 1 | Distinguish method A glass-scale, B projection and C controlled-tension semi-automatic single-fibre measurements. Start with 500 fibres; calculate 95% confidence limits and increase count if required for precision. Retain method and fibre count in the report. |