

TXL-HAL-003 / 28 October 2026 · One-year manufacturer warranty

Hexapod Tumble Tester (1 / 3 / 6 stations)

Appearance change testing of carpets and textile floor coverings. The specimen lines the inside of the drum; a metal test body with six polyurethane studs tumbles over it as the drum rotates, and the change in surface structure and colour appearance is assessed. Single-station benchtop, 3-station single row and 6-station (3 × 2) floor models. ISO 23122:2025 (formerly ISO 10361).



Model technical data

1	Principle: a metal test body with six polyurethane studs tumbles over the specimen inside the drum.
2	Single station: benchtop, 4.3-inch touchscreen; approx. 680 × 550 × 500 mm, 75 kg.
3	3 stations: single row, common touch panel; approx. 1,550 × 650 × 650 mm, 170 kg.
4	6 stations: 3 columns × 2 rows, floor type; approx. 1,550 × 750 × 1,450 mm, 300 kg.
5	Standards: ISO 23122:2025; ISO 10361:2015 (withdrawn, previous method).
6	Single-station overall dimensions (W × D × H): approximately 680 × 550 × 500 mm; multi-station dimensions are specified separately.
7	Single-station net weight: approximately 75 kg, including test masses and excluding packaging.

Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 200–1000 W connected load for preliminary planning.
Overall instrument dimensions	Single station: benchtop, 4.3-inch touchscreen; approx. 680 × 550 × 500 mm, 75 kg. 3 stations: single row, common touch panel; approx. 1,550 × 650 × 650 mm, 170 kg. 6 stations: 3 columns × 2 rows, floor type; approx. 1,550 × 750 × 1,450 mm, 300 kg.
Instrument weight	Single station: benchtop, 4.3-inch touchscreen; approx. 680 × 550 × 500 mm, 75 kg. 3 stations: single row, common touch panel; approx. 1,550 × 650 × 650 mm, 170 kg. 6 stations: 3 columns × 2 rows, floor type; approx. 1,550 × 750 × 1,450 mm, 300 kg. Single-station net weight: approximately 75 kg, including test masses and excluding packaging.
Gross / shipping weight	Approx. gross by station count 1: 110–120 kg; 3: 215–240 kg; 6: 355–400 kg; published 75/170/300 kg plus 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: single station; 3/6-station versions are sized separately.

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	Appearance and damage assessment after mechanical action
Parameters selected for the method	Drum, loading element, turn count and specimen restraint
Verification points	Rotational speed, counter and loading element

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 23122 · ISO 10361

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

Historical method references: ISO 10361

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 ISO 10361:2003 / 6.1.1–6.1.3

1	Hexapod method B only: drum internal diameter 305 ±1 mm, internal depth 200 ±1 mm; speed 35 ±2 rpm, reversing every 15 minutes. Total body mass with six polyurethane studs is 3.8 ±0.1 kg. Do not infer equivalence to Vettermann method A or current ISO 23122 settings.
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