

TXL-HAL-002 / 27 October 2026 · One-year manufacturer warranty

Tetrapod Drum Tester (3-Drum)

3-drum tetrapod system for carpet durability. Simulates long-term use of carpets and floor coverings as realistically as possible. Features a robust and durable mechanical structure.



Model technical data

1	Determines the degree of appearance retention of carpets produced by weaving or tufting.
2	The specimen is placed inside the rotating drum with the pile facing inward, and the free-acting tetrapod foot is placed on it.
3	After a defined number of rotations, the change in surface appearance is assessed.

Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 400–900 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 1700 × 750 × 1000 mm (W × D × H).
Instrument weight	Approx. 150–250 kg net.
Gross / shipping weight	Approx. 190–337.5 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	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/TR 6131 · ASTM D5251

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

Historical method references: ISO/TR 6131, ASTM D5251

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.

ASTM D5251-98a / 6.1.1–6.1.3

1	Tetrapod drum internal diameter is 205 ±5 mm, height 190 ±5 mm, speed 50 ±2 rpm. Total tumbler mass including feet is 1000 ±2.5 g. Record preset revolution stop and rotation direction.
ISO/TR 6131:1986 / 3.1-3.3	
1	Tetrapod technical report: PVC drum internal diameter 200–210 mm and height 190–195 mm; four-legged test body 1000 ± 25 g, drum speed 50 ± 2 r/min. Tetrapod is a distinct arrangement from Hexapod or Vettermann.