

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

Rotary Crockmeter

Rotary rubbing motion for printed fabrics.



Model technical data

1	Measures rubbing fastness by the colour change of the specimen and the staining of the accompanying fabric.
2	Specimens are rubbed against dry, undyed cotton accompanying fabric.
3	The staining ratio of the accompanying fabric is evaluated on the staining grey scale.

Physical specifications and utilities

Electrical supply	Manual / passive base apparatus; no mains supply assumed.
Power / connected load	Approx. 0 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 350 × 250 × 500 mm (W × D × H).
Instrument weight	Approx. 5–12 kg net.
Gross / shipping weight	Approx. 15.5–25 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	Staining grade of rubbing cloth after rubbing
Parameters selected for the method	Rubbing head, load, motion and wet/dry condition
Verification points	Force, stroke, counter and reference cloth

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 105-X16 · AATCC 116

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.

ISO 105-X16 (earlier edition) / 4.1

1	Rotary rubbing uses 11.1 ± 0.5 N vertical force and $405 \pm 3^\circ$ motion; select the 25 ± 0.1 mm or the method's separate 16 mm finger.
---	---

AATCC 116-2005 / 5.2, 9.1-9.2

1	Rotary vertical rubbing: downward force $11.1 \text{ N} \pm 10\%$; crock cloth 51×51 mm. Wet pickup $65 \pm 5\%$; dry and wet results recorded separately.
---	---