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MODEL TS-2633 / TS-2643

UNICORN II UTILITY TESTER

Outline

The Unicorn II Utility Tester is a compact-bodied tensile tester for various materials and applications. It has a simple structure and shape compared to general gantry-type tensile testers, yet it has a long stroke and is designed for easy operation for efficient repetitive measurement.

Model TS-2643 is equipped with a camera-type high-precision non-contact extensometer to achieve both efficiency and accuracy in elongation measurement. The test section is covered with a light-shielding cover to prevent the influence of ambient light and ensure safety.



MODEL TS-2643



株式会社 上島製作所

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Feature

- Compact and space-saving body with a long stroke.
- Speedy repetitive measurement is possible because the next test can be prepared immediately after the test.
- Safety is ensured by a cover covering the test section.
- High-precision, non-contact extensometer with two cameras allows easy and accurate measurement of rubber elongation. (TS-2643). (*)
- Assumed to be used in an extremely wide range of fields such as rubber, plastics, electric wires, electronic parts, textiles, and metal fittings for clothing.

Specification

MODEL	TS-2633	TS-2643
Max. Capacity	2kN	
Load Cell Capacity	100, 200, 500, 1k, or 2kN (Specify when ordering)	
Chuck	One set of dumbbell chuck is included.	
Chuck Distance	750 mm max. *when using 1kN dumbbell chucks	
Cross-Head Movement	Drive: AC servo motor (10 to 500 mm/min) Speed Accuracy: $\pm 1.0\%$ of setting Return speed: 10 to 1500 mm/min Display of moving distance: Digital display in 1-mm units	
Data Processing	Width and thickness of test piece: Numeric key input Intermediate modulus: measurement of five points max. Stress: automatic calculation at the current measurement point, each of the modulus points and breakage point Average: median (JIS K6251, ISO 37), simple average Display: LCD panel Output: printer Load limiter: stop at 102% of load cell capacity	
Extensometer with cameras	No	Included as standard <ul style="list-style-type: none"> ▪ Tracking distance: 600 mm max. ▪ Gauge tracking accuracy: ± 1 mm
Option	Data transfer software <ul style="list-style-type: none"> ▪ Connects PC by RS232C interface and exports the data into EXCEL ▪ Chuck replaced with other types such as wedge chuck, double-eccentric wheel chuck, etc. 	
Power Supply	100VAC, 1.5kVA, 50/60 Hz	
Outer Dimensions	695 (W) × 520 (D) × 1707 (H) mm	731 (W) × 573 (D) × 1707 (H) mm
Weight	Approx. 120kg	Approx. 150kg

(*) The function of the camera-type non-contact extensometer is affected by the color of the specimen and the condition of the gauge lines. It is recommended to check the operation in advance with some samples.

UESHIMA SEISAKUSHO CO., LTD.

<Manufacturer>

Ueshima

UESHIMA SEISAKUSHO CO., LTD.

6-5-22, Yaho, Kunitachi-shi, Tokyo 186-0011, Japan

TEL.81-42-572-1397 FAX.81-42-573-1520

E-mail:sales@ueshima-seisakusho.com

<http://www.ueshima-seisakusho.com>

※Please be noted that the contents in this brochure may change without prior notice due to improvement of the equipment.

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