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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.

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<Manufacturer>

Ueshima

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

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