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MODEL FT-3103

CONSTANT ELONGATION FATIGUE TESTER

Outline

As specified in ISO6943, this fatigue tester applies a constant maximum elongation of repeated tensile deformation to dumbbell-shaped test pieces with predetermined gauge lines. It automatically detects the number of repeated deformations at the break. This is a device that measures the mechanical fatigue life of vulcanized rubber.

Up to 20 test pieces can be attached, and the model equipped with a constant temperature bath can create a temperature environment up to 150 °C. In addition, a handle for rotating the eccentric wheel is standard equipment to reduce the burden of attaching the sample to the grip.



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Feature

- Tests can be performed on up to 20 test pieces simultaneously. The number of strokes at breakage is retained for each test piece.
- The lower chuck position can be adjusted by turning the handle outside the device so that the test pieces can be set easily.
- A fine chuck adjustment mechanism, optional, allows for a more precise elongation setting.
- The machine will stop when there is not enough machine oil in the bending drive unit.
- It has a robust design that can withstand long-term use.

Specification

MODEL	FT-3103	
Applicable Standard	JIS K 6270、ISO 6943	
Quantity of Specimen	20	
Shape of Specimen	Dumbbell Shape (JIS Types 3, 5, 6)	
Frequency	1 to 5Hz	
Stroke	3 to 100mm	
Temperature range	Rt+10°C to 150°C	
Operation unit	Touch panel method	
Counters	Total Counter	8digits
	Preset Counter	8digits
	Counter of each Channel	8digits
	Preset timer	9999H 59M 59S
Heating method	Heater 4kW agitated by the fan	
Temperature Controller	Digital controller, Sensor 100Ω, PID control	
Agitation Equipment	Single-phase 200V 1.5kW motor Sirocco Fan	
Drive unit	3-phase 200V 750W motor	
Safety Devices	(1) Earth leakage breaker (2) Overheat protector (3) Door open / close detection (4) Thermal relay (drive and stirring motor) (5) Oil level detection	
Power supply	3-phase 200V 50Hz 30A	
Power consumption	6kVA max.	
Dimensions	970(W)×1580(H)×680(D) (mm)	
Optional	(1) Chuck fine adjustment mechanism The elongation between the gauge lines can be fine-tuned for each individual channel by adjusting the vertical position of the lower chuck. Adjustment range : 40mm max. (2) Refrigerator Specifications We will consult with you depending on the temperature range. (3) Oil drip control mechanism (4) Liquefied carbon dioxide gas cylinder connection specifications	

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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. 027-468718-3