

Model: FT-3103

CONSTANT ELONGATION FATIGUE TESTER



Outline

As specified in ISO 6943, 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.

Features

- 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.

Specifications

MODEL	FT-3103
Reference 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	3-phase 200V 90W motor, Sirocco Fan
Drive unit	3-phase 200V 1.5kW 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)×1620(H)×700(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



~ Simulate product testing in the lab ~

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