

Model: FT-6115

DISC FATIGUE TESTER



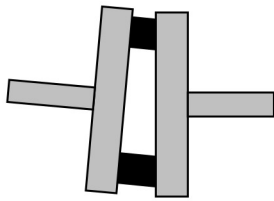
Outline

This equipment is a disc fatigue tester which refers to Goodrich method. It evaluates durability of adhesion force between tire cord and rubber or durability of tire cord itself through the system that gives repetitive stretching-deformation and compressing-deformation having certain amplitude alternately to the samples. It is possible to test up to 24 pieces of samples simultaneously with different deformation amplitude and/or repetition frequency. It is possible to preform tests providing high temperature atmosphere.

Features

- Up to 24 pieces of samples can be tested simultaneously.
- Test is terminated automatically after a preset number of rotations or time period.
- It is possible to change the disc speed and deformation amplitude in a wide range.

Specifications

MODEL	FT-6115
Reference Standard	JIS L1017-2002 (Test methods for chemical fibre tire cords, Appendix 1)
Operating Principle	 Samples are fixed between two discs. The discs rotate with one of them slanted, making the samples tension and compression deformation alternately at a high speed.
Number of Samples	24 max.
Sample Shape	Rectangular column (12.7 x 12.7 x 60.8mm)
Deformation Amplitude	• Disc to disc distance: 25.4mm • Setting range: 0 to 5.08mm for both tension and compression (corresponds to 0 to 20% of deformation amplitude on the center of the sample) • Setting accuracy: ± 0.05mm
Disc Rotation	• Disc speed: 1000 to 3000rpm • Counter for alternating directions of rotation: 0 to 99999999 rotations (digital display and setting)
Finalizing Counter/Timer	• Finalizing counter: 0 to 99999999 rotations (digital display and setting) • Finalizing timer: 0 to 99999.9 hours (digital display and setting)
Temperature Chamber	RT+20°C to 150°C $\pm 1.5^\circ\text{C}$
Heating Method	1-kW heater (200VAC)
Safety Device	Leakage breaker, overheat protector, chamber door switch, emergency stop button
Power Supply	3 phases, 200VAC, 50/60Hz, 20A
Outer Dimensions	Approx. 1050 (W) x 720 (D) x 810 (H) mm (excl. protrusion)
Weight	Approx. 300 kg



~ Simulate product testing in the lab ~

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