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# MODEL FT-4151

## BELT FLEX TESTER

### Outline

This equipment is a flexure testing machine referring to Firestone Method (Method A).

It counts number of flexing strokes until a test piece of a power transmission belt comes to breakdown while the test piece is subject to repeated flexure at a certain angle and load in the temperature controlled chamber.

The load is applied by air cylinders, and actual load is monitored and controlled with load cells.



MODEL FT-4151



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UESHIMA SEISAKUSHO CO., LTD

## Feature

- Test conditions can be set easily on a LCD touch panel screen.
- Number of strokes until breakdown is counted independently for each of five test pieces.
- Diameter of flexure pulley, stroke, speed, load and chamber temperature range can be changed optionally.

## Specification

MODEL	FT-4151
Reference Standard	JIS L1017-2002
Number of Test Pieces	5
Shape of Test Piece	450(L)mm×20(W)mm×6(t)mm
Diameter of Flexure Pulley	φ 25mm, φ 30mm, φ 50mm
Flexing Stroke	±23°120mm(p-p) (at crank arm section)
Flexing Speed	60 to 200cpm
Driving Equipment	AC, 3 phases, geared motor, speed controlled by inverter Simultaneous driving of five test pieces
Number of Flexing Strokes	99,999,999 max., set by preset counter Counter stops on breakage detected
Load Setting Range	200 to 1200 N
Load Control Method	Load cell (capacity: 2000N), non-linearity: 1% RO
Breakage Detection	When the load comes to preset value or lower, it will be detected as breakage, stopping the drive and count of the channel.
Chamber Temperature Range	RT+10°C to 150°C±3°C
Safety Device	Overheat protector, driving motor overload protector, emergency stop switch, chamber door open detection, cylinder overload detection, low air pressure detection
Power Supply	3-phs 200VAC, 50/60Hz, 10KVA (380 to 440VAC available with an optional external transformer)
Compressed Air (for loading)	0.5Mpa or greater (dry clean air)
City Water	1 L/min. or more (for loading shaft cooling)
Standard Accessories	Calibration jig, load cell for calibration, indicator for calibration, ratchet handle, hexagon socket, spanner, hexagon wrench, grease gun, grease, driving V-belt, stirring V-belt
Dimensions and Weight	Approx.1460(W) x 1035(D) x 1800(H)mm, approx. 1050kg

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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. 027-468695-5