



MODEL FT-1521

DE MATTIA FLEX CRACKING TESTER

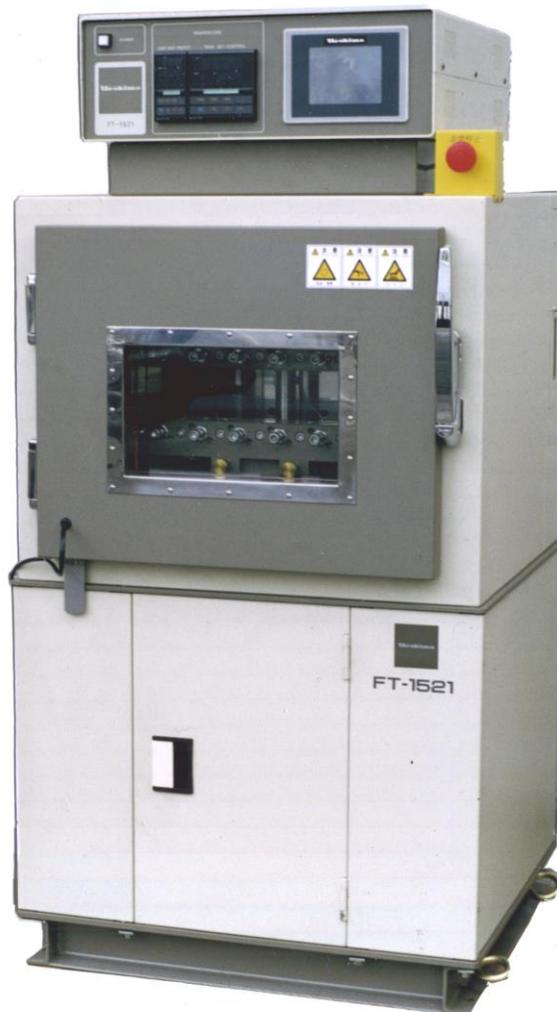
With Constant-Temperature Chamber

OUTLINE

Polymer products such as tire, belt and vibration isolator rubber shall initiate cracking and finally comes to fatigue failure by giving a certain deformation from the outside for a long stretch of time.

This tester is designed to investigate the correlation between the frequency of flexing and the progress of fatigue by giving cyclical deformation on the test piece of which shape is established in the JIS (JAPAN INDUSTRIAL STANDARDS). Temperature inside the temperature chamber can be controlled in the range RT+10°C to +150°C (-35 °C to +150°C as optional), enabling accelerated fatigue tests.

The touch panel screen realizes operational easiness in a form of dialogue.



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FEATURES

- Six test pieces can be tested simultaneously in the compact body.
- Extremely quiet
- It stops automatically when the lubrication oil of the driving device reaches the lower level.
- Designed for high durability

SPECIFICATIONS

- Standards:** JIS K6260, ISO 132
- Number of test pieces:** Available 6 pieces at the same time
- Flex frequency:** 300 ± 10 times/min. (A variable speed type is also available.)
- Flex stroke:** 3 to 60mm
- Temperature range:** RT+10 °C to +150°C (-35 °C to +150°C as optional)
- Temp. controller:** Digital indicator, PID control, Sensor JPt 100Ω
- Heating method:** Heater 2kw with stirrer
- Cooling method (option):** Injection of liquefied CO₂ gas into the temperature chamber with stirrer
(Liquefied CO₂ container shall be prepared by the user)
- Stirring motor:** Single phase AC100V, 35W
- Driving motor:** 3 phase AC200V, 750W
- Flex counter:** Total 8 digit counter, 8 digit pre-set counter, Preset timer 9999 h 59 m 59 s
- Power source:** 3 phase AC200V, 50/60Hz
- Power consumption:** 6KVA max.
- Outer dimensions:** W680 × L660 × H1360 mm
- Weight:** Approx. 280 Kgs.
- Standard accessories:** Test piece installation tool x 1 set, Stroke adjustment tool x 1 set, Machine oil pan x 1 piece, Stroke adjustment gauge x 1 piece
- Safety device:** Leakage breaker, overheat protector (shut-off the power source of heater and driving motor when the chamber temperature reaches the preset amount), door sensor (When a door is open, driving motor shall stop.) thermal relay (When driving motor or stirring motor is overloaded, each motor shall stop.), machine oil gauge sensor (When the machine oil reaches the lower level, driving motor shall stop.)
- Option:** Mold for test piece: MODELS MD-2106 (for 6 pieces), MD-2112 (for 12 pieces)
Piercing tool: MODEL SC-8110
- Other models:** MODEL FT-1503: 20 test pieces can be tested simultaneously.
MODEL FT-1518: Automatic capture of crack image by a camera

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