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## MODEL FT-1521

# DE MATTIA FLEX CRACKING TESTER

### Outline

Tires, belts, and anti-vibration rubbers are subjected to external deformation for a long period of time, and eventually cracks or fatigue failure occurs. This tester is used to examine the correlation and relationship between the number of bending cycles and the degree of fatigue progression by repeatedly bending and deforming specimens of the shapes specified in JIS and other standards.

The temperature in the thermostatic chamber can be adjusted between RT +10°C and 150°C (optionally between -35°C and 150°C), and the test at high temperatures in particular can be regarded as an accelerated test.

Interactive and light operation is realized by the LCD touch panel.



MODEL FT-1521



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UESHIMA SEISAKUSHO CO., LTD

## Feature

- 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 limit.
- Designed for high durability

## Specification

Model	FT-1521
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 CO <sub>2</sub> gas into the temperature chamber with stirrer (Liquefied CO <sub>2</sub> 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 59s
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	Test Piece Mold: MODELS MD-2106 (for 6 pieces), MD-2112 (for 12 pieces) Piercing tool: MODEL SC-8110
Sister models	FT-1507: DE MATTIA FLEX CRACKING TESTER (20 test pieces can be tested simultaneously.) FT-1518: CCD DE MATTIA FLEX CRACKING TESTER (20 test pieces can be tested simultaneously. Images of cracks on test pieces can be captured automatically.)

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<Manufacturer>

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