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## MODEL TM-3532

# AUTOMATIC T-R TESTER

### Outline

This equipment is immersed and frozen sample which gave a fixed tension distortion into low-temperature heat-transfer medium in a tank (-70 °C), removes the tension after that, and raises the temperature of heat-transfer medium.

Since it begins to contract gradually, a sample measures the rate of elasticity from the contraction extent.

Four samples are automatically measured by one test, and data is processed.

This measurement investigates the capability of vulcanized rubber frozen at low temperature recovers elasticity, and evaluates the viscoelasticity and the crystallization tendency at low temperature.



MODEL TM-3532



QMS . EMS  
ISO 9001  
ISO 14001  
JSAQ1320, JSAE1529



JAB  
CM001

株式会社 上島製作所

UESHIMA SEISAKUSHO CO., LTD

## Feature

- The 2 stage-freezer is adopted, it can measure from  $-70^{\circ}\text{C}$ , and a running cost is cut down sharply.
- A freezer can be started at the time of hope by the timer. A timer can be set up in between by 99 hours and 99 minutes by the longest.
- An examination is performed in WINDOWS environment and it has higher operativity.
- Since all work is performed by being full automatic except for attachment of a sample, the efficiency of measurement improves sharply.

## Specification

Model	TM-3532
Applicable Standard	JIS K 6261-2006, ISO 2921
Cooling Method	Refrigerator
Submerging	Automatic
Preliminary extension	Automatic
Sample Size	Length of parallel part: 50mm or 100mm
Test Stroke	450mm max.
Temp. Range	$-70^{\circ}\text{C}$ - $20^{\circ}\text{C}$
Heat Transfer	Ethanol
Temp. Control	PID controlled digital temperature controller, sensor PT100 $\Omega$
Displacement Meas.	Rotary Encoder
Data Processing	Test setup, data display (TR, contraction), graph (temp., contraction), filing
Safety Device	Emergency stop switch, leakage breaker, overheat protector, prevention of idling liquid surface detection
Power Supply	200VAC, 3 phases, 30A, 50/60Hz, (100VAC for PC) or specified voltage
Compressed Air	0.5MPa or more of dry and clean air
Dimensions	830(W) × 1200(D) × 2090(H)mm

UESHIMA SEISAKUSHO CO., LTD.

<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. 027-468234-2