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MODEL TM-3525

TR TESTER

Outline

This device measures the retraction rate of elongation when a specimen is subjected to a certain elongation, frozen, and then gradually warmed up. The encoder is used to measure the retraction, and a PC is used to set test conditions, display data (TR value, retraction rate), draw graphs (temperature, retraction rate), and save the results to a file.

MODEL TM-3525

QMS.EMS
JIS Q 9001, JSAQ1320
JIS Q 14001, JSAE1529
MS
CM001

株式會社 上島製作所
UESHIMA SEISAKUSHO CO.,LTD

Features

- Equipped with a dual-stage refrigeration system, ethanol can be cooled down to -73°C. The chiller can be operated on a timer, so testing can be started immediately after the time is set in advance.
- The data measured by the testing machine are linked to the PC, the test data can be automatically aggregated, and the results can be displayed.

Specifications

MODEL	TM-3525
Reference Standard	JIS K 6261-4-2017、 ISO2921、ASTM D 1329
Number of Samples	6
Sample Size	Length of parallel part: 50 mm or 100 mm
Temp. Range	-70°C to 20°C
Test Stroke	200 mm max. (for the 50-mm samples) *Initial elongation setting is manual.
Displacement Measurement	Rotary Encoder (2000 P/R) 0.065 mm / P
Cooling Method	Dual-Stage Refrigerator（3 Three-phase　AC200V 1.1KW＋1.1KW） Timer (99 h 59 min)
Heat Transfer Medium	Ethanol (approx. 18L)
Heating Method	Heater, 3KW thyristor control
Temperature Control	PID-controlled digital temperature controller Sensor PT100Ω
Safety Device	Leakage breaker, overheat protector, float switch
PC Specifications	・OS　: Windows 10 ・Slot　: Three PCI slots required ・Monitor resolution　: 1280×1024 or higher
Data Processing and control	・Equipment operation ・Test condition setup ・Data display (TR values, retraction rate) ・Graphic display (temperature - retraction) ・Filing (Data, Test Conditions, PID Settings)
Weight	210 Kg(without heat transfer medium)
Power Supply	Three-phase AC200V, 6KVA
Outer Dimensions	520(W)×780(D)×1790(H)mm

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