

No.121 BRITTLINESS TEMPERATURE TESTER



JIS-C3005, K6261, K6723, K7216, ASTM-D746, ISO-812, 974

This tester is used to measure the 50% impact brittleness temperature of plastic, rubber, and electric insulated wire at low temperature. By attaching one end of the test specimen to the holder and adding impact to the other end, the operator is to check for any breaks to the test specimen. The refrigerating method for 121 is dry ice and the 121-R is equipped with a refrigerator.

No.121 Specification

Hangings	5 Hangings (1 Holder)
Specimen	W6.0 ± 0.4mm, L38± 0.2 mm , T2.0 ± 0.2 mm (Type A)
Striking Edge	Top R1.6 ± 0.1 mm, Distance to Chuck 6.4 ± 0.2 mm, Distance to Striking Point 8.0 ± 0.2 mm
Striking Speed	2.0 ± 0.2 m/s
Temperature Range	Room Temperature to -70 °C (Dry Ice & Refrigeration Medium)
Refrigeration Medium Amount	Approx. 15 L
Accessories	Tightening Rod, Torque Driver, Specimen Cutter
Option	Rotary Holder (5 Hangings × 4 Holders), Specimen Holder (Type B)
Power Source	AC 100 V, 1-Phase, 15 A, 50/60 Hz
Air Source	0.5 MPa or More
Dimensions/ Weight (Approx.)	W770 × D830 × H550 mm/ 155 kg

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No.121-RA BRITTLENESS TEMPERATURE TESTER (WITH REFRIGERATING MACHINE/ ROTARY HOLDER TYPE)



JIS-C3005, K6261, K6723, K7216, ASTM-D746, ISO-812, 974

This tester is equipped with a rotary holder to continuously run maximum of 4 tests. The testing condition (test temperature and dip time) for the 4 tests can be set on the touch panel screen, which will enable efficient testing.

No.121-RA Specification

Hangings	5 Hangings × 4 Holders (Total 20 Hangings), Automatic Operation System
Specimen	W6.0 ± 0.4mm, L38± 0.2 mm , T2.0 ± 0.2 mm (Type A)
Striking Edge	Top R1.6 ± 0.1 mm, Distance to Chuck 6.4 ± 0.2 mm, Distance to Striking Point 8.0 ± 0.2 mm

Striking Speed	2.0 ± 0.2 m/s
Temperature Range	Normal to -70 °C (Refrigerator & Refrigeration Medium)
Refrigeration Medium Amount	Approx. 15 L
Accessories	Tightening Rod, Torque Driver, Specimen Cutter
Option	Specimen Holder (Type B)
Power Source	AC 200 V, 3-Phase, 30 A, 50/60 Hz
Air Source	0.5 MPa or More
Dimensions/ Weight (Approx.)	W830 × D950 × H1,650 mm, 400 kg

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No.121-R BRITTLENESS TEMPERATURE TESTER (WITH REFRIGERATING MACHINE)



JIS-C3005、K6261、K6723、K7216、ASTM-D746、ISO-812、974

This tester is used to measure the 50 % impact brittleness temperature of plastic, rubber, and electric insulated wire at low temperature. By attaching one end of the test specimen to the holder and adding impact to the other end, the operator is to check for any breaks to the test specimen. The refrigerating method for 121 is dry ice and the 121-R is equipped with a refrigerator.

No.121-R Specification

Hangings	5 Hangings (1 Holder), Automatic Operation System
Specimen	W6.0 ± 0.4mm, L38± 0.2 mm , T2.0 ± 0.2 mm (Type A)

Striking Edge	Top $R1.6 \pm 0.1$ mm, Distance to Chuck 6.4 ± 0.2 mm, Distance to Striking Point 8.0 ± 0.2 mm
Striking Speed	2.0 ± 0.2 m/s
Temperature Range	Room Temperature to -70 °C (Refrigerator & Refrigeration Medium) (Option: Combined with Liquid Nitrogen -100 °C)
Refrigeration Medium Amount	Approx. 15 L
Accessories	Tightening Rod, Torque Driver, Specimen Cutter
Option	Rotary Holder (5 Hangings \times 4 Holders), Specimen Holder (Type B)
Power Source	AC 200 V, 3-Phase, 30 A, 50/60 Hz
Dimensions/ Weight (Approx.)	W920 \times D950 \times H1,800 mm/ 435 kg

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No.121-AUTO BRITTLENESS TEMPERATURE TESTER (FULLY AUTOMATIC)



JIS-C3005、K6261、K6723、K7216、ASTM-D746、ISO-812、974

This tester is the robotic version of the BRITTLENESS TEMPERATURE TESTER.

By inputting the test conditions in the computer software, the operator can continuously run 40 tests (200 samples).

No.121-AUTO Specification

Hangings	5 Hangings × 40 Holders (Total 200 Hangings)
Specimen	W6.0 ± 0.4 mm, L38 ± 0.2 mm, T2.0 ± 0.2 mm (Type A)
Striking Edge	Top 1.6 ± 0.1 mm, Distance to Chuck 6.4 ± 0.2 mm, Distance to Striking Point 8.0 ± 0.2 mm
Striking Speed	2.0 ± 0.2 m/s

Temperature Range	Room Temperature to -70 °C (Refrigerator & Refrigeration Medium)
Refrigeration Medium Amount	Approx. 15 L
Software	Windows Compatible
Accessories	Tightening Rod, Torque Driver, Specimen Cutter
Option	Specimen Holder (Type B)
Power Source	AC 200 V, 3-Phase, 30 A, 50/60 Hz
Air Source	0.5 MPa or More
Dimensions/ Weight (Approx.)	W1,160 × D1,030 × H2,150 mm/ 450 kg