



## Ross Flex Tester with Low Temperature Chamber

### Model

GenRoss-CH

### Standards

ASTM-D1052, ISO-5423, SATRA TM60, HG/T 2411 and SATRA TM92. Custom Requirements Available



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LIFETIME PRODUCT SUPPORT ADVANTAGE



### Description

This instrument is primarily used to test the cold resistance and folding resistance of shoes and shoe materials. Its purpose is to assess the adaptability of materials or finished products to low-temperature climates or cold regions. The instrument can accommodate various folding devices.

### Features

- **Body surface treatment:** The body is coated with US manufacture DuPont powder using an electrostatic spray painting process. It is then cured at high temperatures of 200 °C to ensure long-lasting color fastness.
- **Inner liner:** The inner liner is made of high-quality stainless steel material, and its semi-circular four-corner design facilitates convenient cleaning.
- **Air circulation and temperature uniformity:** The instrument is equipped with reasonable air ducts and circulation systems to ensure good temperature uniformity within the testing chamber.
- **Air convection and breeze devices:** High-performance motors and blades are installed, along with air convection and breeze devices. These facilitate the updating and circulation of air within the chamber.
- **Enhanced performance:** The use of nanostructured material for door seals and insulation materials enhances the overall performance of the machine.
- **Shell construction:** The shell is made of cold-rolled steel plate and coated with plastic using an electrostatic spraying process.
- **Compressor:** The instrument utilizes the original Taikang compressor, known for its strength and reliability.
- **Insulation material:** The box is insulated with 100mm high-temperature resistant rigid polyurethane foam.
- **Heater:** The instrument employs a finned heat dissipation tube-shaped stainless steel electric heater.



- Cold and heat exchange device: The instrument adopts an ultra-high efficiency SWEP cold and heat exchange design for effective cold and heat exchange.
- Temperature controller: The instrument is equipped with a Taiwan Weilun TH7010 Touchable Intelligent Programmable Temperature Controller, which offers precise control and ease of use.

### Standard Configurations

1. Test piece size: 152 × 25mm
2. Bending angle: 90 °
3. Number of test pieces: 6 sets
4. Twist speed: 0-100 ± 5cpm adjustable
5. Diameter of winding shaft: 10mm
6. Cutting edge: 2.5mm
7. Counter: LCD, 0-9999999



### Technical Specifications

Technical Specifications	
<b>System</b>	Balanced temperature regulator wet control system
<b>Temperature range</b>	-20 °C~+150 °C
<b>Temperature fluctuation</b>	≤ ± 0.5 °C
<b>Temperature uniformity</b>	≤ 2 °C
<b>Temperature accuracy</b>	± 0.2 °C
<b>Heating time</b>	+25 °C → +85 °C Normal temperature to 85 °C takes about 30 minutes without load
<b>Cooling time</b>	+25 °C → -40 °C Normal temperature to -40 °C It takes about 50 minutes without load
<b>Window</b>	12.60x16.53x1.57-inches / 320x420x40mm 3-layer vacuum tempered glass
<b>Door hinge</b>	SUS # 304 imported hinge
<b>Energy saving light inside the box</b>	LED light emitting method
<b>Lead hole</b>	φ 1 50mm (with 1 rubber plug)
<b>Heating rate</b>	3-5 °C/min (average)
<b>Cooling rate</b>	0.7~1 °C/min (average)
<b>Inner box dimensions</b>	15.75x19.68x15.75-inches 400x500x400mm
<b>Outer box dimensions</b>	41.34x78.74x45.28-inches 1050x2000x1150mm
<b>Power supply</b>	AC220V 1ph 50/60 Hz

### Lead Time

2-4 Weeks on PO and Credit Approval Process



**Model:**

Model	Description
GenRoss-CH	Ross Flex Tester with Low Temperature Chamber According to ASTM-D1052, ISO-5423, SATRA TM60, HG/T 2411 and SATRA TM92.
	NOTE: The unit comes standard with CE Certification

\* Request a [formal quotation](#) or send an e-mail to [sales@nextgentest.com](mailto:sales@nextgentest.com) for the most up-to-date pricing and applicable discounts and incentives