

Powertrain Battery Test Solutions



www.sanwood.cc
www.sanwood.com

SANWOOD®
Environmental Test Chambers

☎ TEL: +86-769-81182799

☎ FAX: +86-769-82987199

✉ info@sanwood.cc

info@sanwood.com

🌐 www.sanwood.cc

www.sanwood.com

📍 Address: No.88, Songchang Road, Songbotang , Changping, Dongguan 523560, Guangdong, China







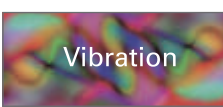


COMPANY PROFILE

SANWOOD was founded in 1995 with Taiwanese technology and increased its capital to plan for a public listed company in 2013. Guangdong Sanwood Technology Co., Ltd was incorporated. The company focused on the most secure and reliable technologies for environmental test equipments and the overall solutions for the laboratories. It is a national high-tech enterprise, became a permanent member of National Aerospace Systems Science & Engineering Research Institute executive director and achieved ISO9001: 2015 quality system certification along with CE certification.

SANWOOD formed foreign trade branch with a professional sales and marketing team and with service specialists to handle all oversea after-sales services, products now are exporting to more than 60 countries and regions (Austria, Belgium, Czech, Croatia, Denmark, France, Germany, Hungary, Italy, Netherlands, Poland, Russia, Sweden, Switzerland, Spain, Turkey and etc).

Simulate Various Environmental Conditions:

	Polar Cold	In extremely cold conditions, mechanical cooling is used to cool the system to -85°C, cooling with LN 2 (liquid nitrogen) to a temperature as low as -184°C, even rapid temperature change is able to achieve.
	Extreme Heat	Extremely high temperature: the maximum temperature can reach up to +180°C, and the higher temperature range can be customized according to customer's requirements.
	Humidity	Humidity environment: relative humidity ranges from 20% RH to 98% RH. If the low humidity option is added, lower relative humidity can be achieved.
	Altitude	Low air pressure: simulates an altitude of 30,000 meters, or by options to an altitude of 60,000 meters.
	Vibration	Vibration integrated system: the integrated environmental test chamber has temperature and humidity test functions, it can also be an integrated test system with an electromagnetic vibration table and a mechanical vibration table interface.

CATL

LG

FROM THE PAST TO
THE FUTURE

LISHEN

FARASIS



Great Wall Motors

SUNWODA

vtech



We have never stopped our pace to be as an earlier domestic company specializing in the field of environmental testing equipments, we insist on the reliability test technology research, product development as our core, no matter what the needs from our customers, we will provide them a perfect solution.

From the past to the future, we are as always to continue to be innovative and creative.



Production workshop-1



Production workshop-2



Debugging & testing area



Refrigeration assembly



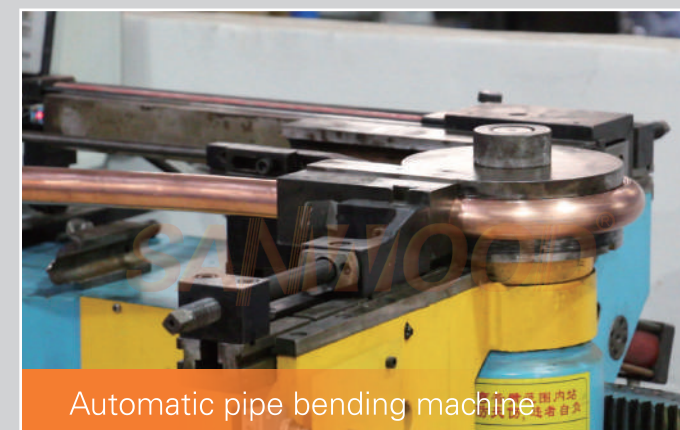
R & D design



Sheet metal workshop-1



Sheet metal workshop-2



Automatic pipe bending machine



Welding



Circuit cabinet assembly

SANWOOD HONORED CERTIFICATES



CUSTOMER REFERENCE CASES



Our Products And Services

Focusing on the innovation of Environmental reliability test.



Battery Environmental Reliability Test

Temperature humidity chambers simulate a range of temperature and humidity conditions to test component and products, especially for those exposed to outdoor temperature and humidity conditions, such as electronics, energy storage, material processing, solar lighting, vehicle parts and etc.

SANWOOD test chambers are mainly configured with international famous brand components, ensure they provide reliable performance and work continuously without defect. Our advanced temperature control system and refrigeration technology reduce operation power consumption, saving energy up to 20% than the traditional technology.



Battery safety test

Many electronic products are around our daily life nowadays, smart phones, tablet, wearable devices, laptop, home robot and etc. The rechargeable battery, mainly Lithium-ion battery are widely adopted in such products. There is greater demand of battery safety testing from both of battery and product manufacturers. They should make sure the battery is qualified before delivering to customers.

SANWOOD dedicates to provide reliable and comprehensive solution for consumer battery safety test equipment, matching the standards complied with IEC62133, UN38.3, and UL1642. Including mechanical, electrical and temperature environment test.



Vehicle test solution

The walk-in environment simulation chamber is widely used in automobiles, metrology and testing, aerospace and defense industries. It has high reliability requirements, wide temperature and humidity range, comprehensive environmental parameters and complicated test conditions. The operator can enter the laboratory to operate the test article; It provides conditions for temperature and humidity environmental testing for batch or large parts, semi-finished products and finished products from industrial manufacturers.

Contents

Battery Explosion-Proof Temperature Test Chamber	13-18
Battery Dry Chamber	19-24
Temperature And Altitude Test Chamber	25
Walk-in Dust-proof Test Chamber	26
 Battery Test Chamber	 27-43
3D Battery Module Safety Lab	27
Servo Computer Battery Crush Tester	28
Battery Crush Test Chamber	29
Heavy Impact Tester	30
Battery Drop Tester	31
Battery Burning Tester	32
Short-Circuit Current Tester	33
AGREE Test Chamber	34
Slip Table	35-36
Shock Tester	37
Battery Pack Drop Tester	38
Battery Pack Rotate Test Device	39
Horizontal Battery Crush Nail Penetration Test Machine	40
Sea Water Immersion Test Device	41
Complex Salt Spray Test Chamber	42
Battery Crush Nail Penetration Tester	43
 Environment Simulation Chamber For Vehicle Testing	 44
MAST Vibration Environmental Simulation Chamber	45
Sunlight And Infrared Simulation Environmental Chamber For Vehicle Testing	46
Vehicle VOC Test Chamber	47
Road Simulation Environmental Test Chamber	48
Rotating Hub And Emission Test Chamber / Chassis Dynamometer Vehicle Test Chamber	49

Battery Explosion-Proof Temperature Test Chamber



Test standards:

Test specifications	Description
IEC 62660-2	Reliability and abuse test of lithium battery cells for electric vehicles
SAE J2464	Electric vehicle battery abuse test
IEC 60086-4	Primary batteries Part 4: safety of lithium batteries
UL 1642	US lithium battery safety standard
UN 38.3	United Nations lithium battery transportation test requirements
IEC 61960	Portable lithium secondary battery unit
IEC 62133	Single battery (cell) and battery pack with alkaline or non-acid electrolyte: Portable battery cells and batteries manufactured using them, safety requirements for portable applications
UL 2054	Household and commercial batteries
IEEE 1625	Laptop rechargeable battery
IEEE 1725	Telephone rechargeable battery

Standard Configuration

- Cable port with silicon plug $\phi 100\text{mm} \times 2$
- Internal lighting
- USB interface and history data review and converting software
- Over temperature protection
- Status indicator light

Optional Configuration

- Multi-temperature probe
- Automatic fire extinguishing CO2 device
- Explosin-proof chains
- Electronic temperature sensor
- Hydrogen induction device
- Intake and exhaust device
- Video monitoring device
- Pressure relief vent