

Company introduction

Simplewell Technology Co., Ltd

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**Customer
first**

**Full
participation**



**Technological
innovation**

**Customer
Satisfaction**

01
Part

About the company

(Who are we)

1.1 Company profile

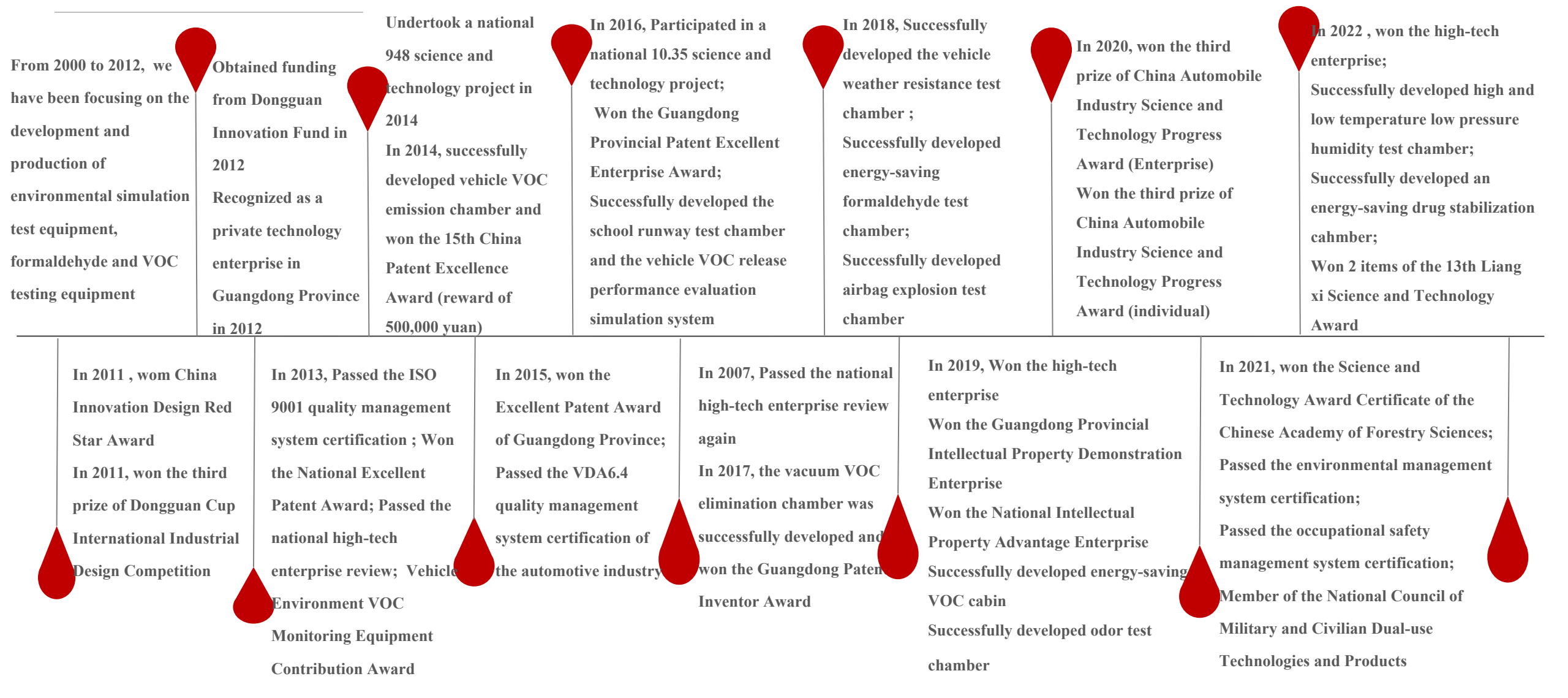


The company has passed TUV: ISO 9001: 2015 certification, German Automobile Industry Association VDA 6.4: 2017 quality management system certification, ISO 14000 environmental management system, ISO 45001 occupational health and safety management system, and many products have passed CE certification.

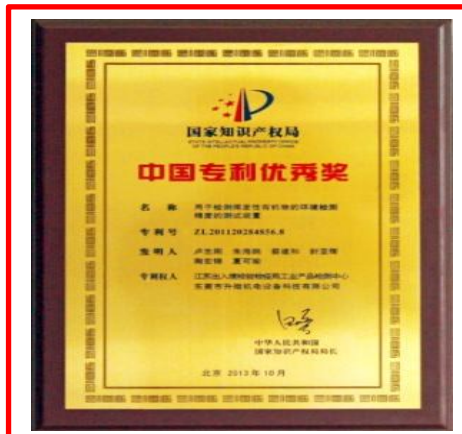
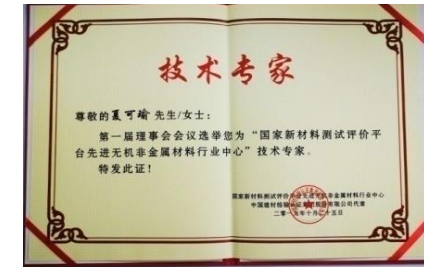
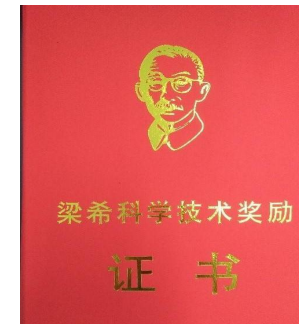
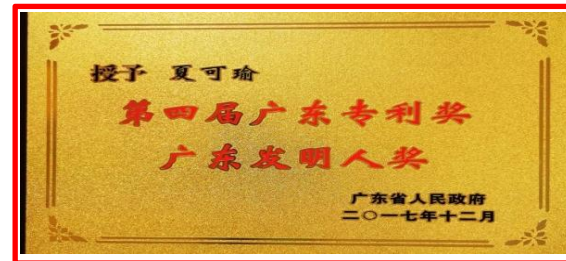
Founded in November 2008, the company is a private enterprise with a registered trademark of "Simplewell". Cultural concept: simple life and strive to create an "innovative and simple" corporate culture atmosphere. Business philosophy: to provide customers with simple, reliable, accurate and leading testing equipment



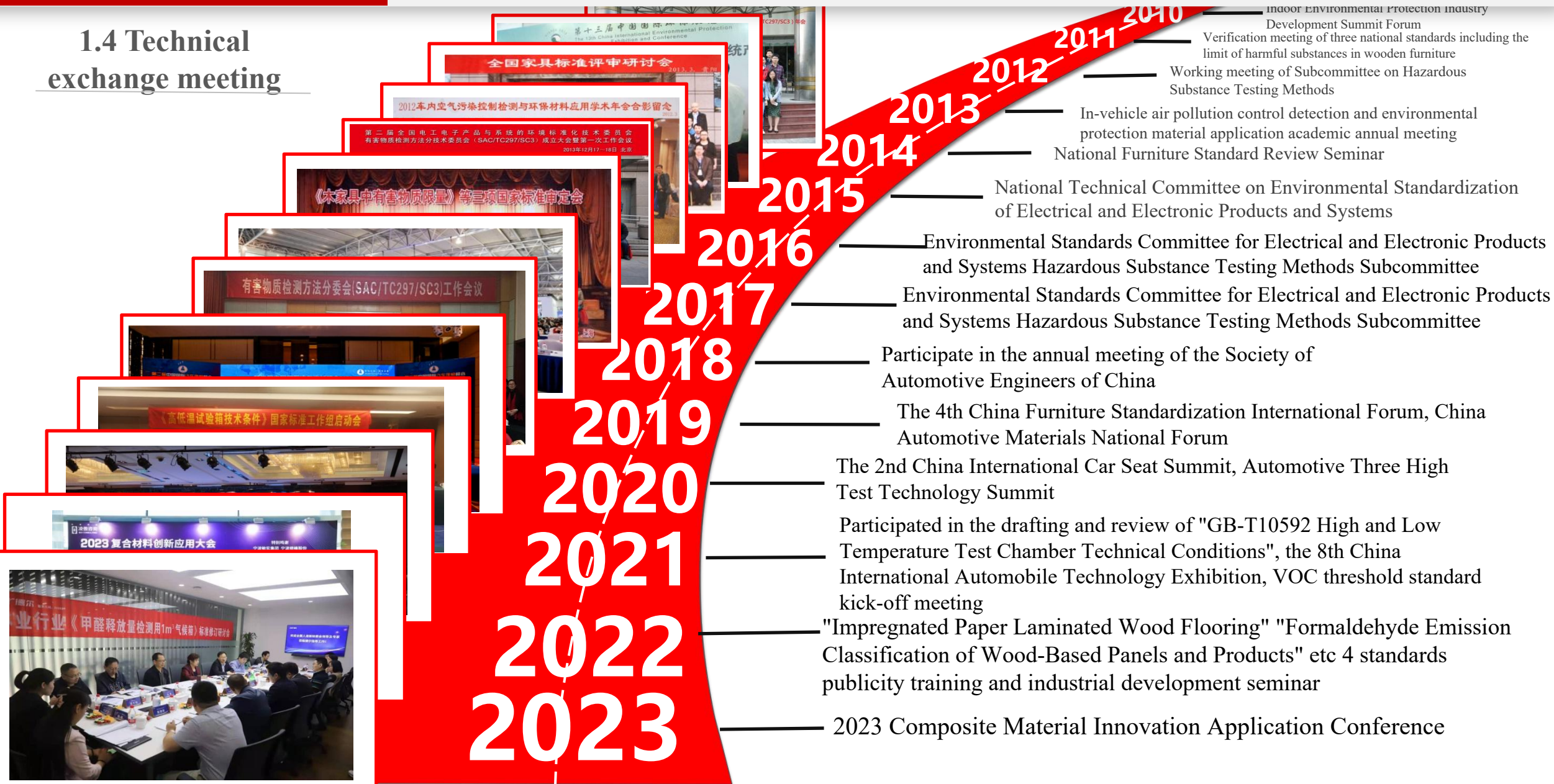
1.2 Development path



1.3 Enterprise honor



1.4 Technical exchange meeting



1.5 Cooperative research and development unit

We have the best product R&D team and cooperation units, thank you for accompanying Simplewell's growth all the way!



Northeast Forestry
University

National Electrical and
Electronic Products and
Systems Environmental
Standardization Technical
Committee Sub-Hazardous
Substance Detection Method
Technical Committee

Beijing Timber Research
Institute

PKU-HKUST ShenZhen-
HongKong Institution

Beijing Institute of Product
Quality Supervision

China Academy of Building
Materials Science

SGS Group

Zhejiang University of
Technology

South China Industrial
Institute Design

Jiangsu Inspection and
Quarantine Bureau

1.6 Developed many first



- The first domestic electronics industry VOC release chamber
- The first domestic copier
- The first bag method VOC sampling chamber in China
- The first combined multi-unit VOC release chamber
- The first filter test system
- The first VOC and odor screening system
- The first VOC release chamber for automotive interiors
- The first specimen pretreatment room
- The first comprehensive vehicle VOC and high and low temperature test chamber
- The first VOC clean chamber
- The first large bus VOC test chamber
- The first car odor screening environmental chamber
- The first low adsorption carbon canister test chamber
- The first low-adsorption fuel airtight evaporation detection chamber
- The first refrigerant leak detection chamber
- The first high and low temperature vibration abnormal noise mobile chamber for auto parts
- The first energy-saving formaldehyde emission test chamber
- The first energy-saving VOC emission chamber
- The first SVOC micro test chamber
- The first domestic VOC miniature chamber
- The first vacuum VOC elimination chamber
- The first domestic automobile transmission shaft fatigue testing machine
- The first high-altitude low-temperature humidity chamber
- The first high and low temperature crush & nail penetration test chamber

1.7 Participate in the drafting of standards (28 items)

- General technical conditions for climate chambers for testing volatile organic compounds in furniture
- Determination of the emission of volatile organic compounds from wood-based panels and furnishing - Small chamber method
- Determination of phenol emission from wooden materials and their furnishing products—Small chamber method
- Determination of the emission of volatile organic compounds from furniture—Emission test cell method
- Test method of shock noise for wooden flooring
- Textile-Determination of the emission of volatile organic compounds-Small chamber method
- Monitoring method of energy saving for the wood drying equipments of steam heat source
- Installation, inspection and usage guidelines for wooden integrated home furnishing
- Test Method for Hygroscopic Properties of Fire-Retardant Wood and Wood-Base Products
- Test methods of structural insulated panel walls of timber structures.
- Monitoring method of energy saving for the wood drying equipments of steam heat source
- Wood products-Method for assessment of colour fastness to artificial light
- Technical Requirements for Pollutant Control of Automotive Interior Products Part 17 Testing Methods
- Monitoring method of energy saving for the wood drying equipments
- GB-T10592 Specification for low/high temperature test chambers.
- Determination Of Emission Rate Of Volatile Organic Compounds From Materials And Components Used In Electrical And Electronic Products -- Emission Test Chamber-Gas Chromatography Mass Spectrometry
- Determination of emission of volatile organic compounds in furniture - Emission laboratory method
- Testing methods for harmful substances of furniture-General guidelines
- VOCs release value of wood-based panels and their products
- Specification for indoor carrying capacity of wood-based panels and finishing products based on volatile organic compounds emission
- Concentration requirements of high attention volatile organic compounds release from upholstered furniture
- Limit of volatile organic compounds of high attention of wood based furniture
- Determination of emission of volatile organic compounds (VOCs) in interior decoration materials-sampling bag method
- Requirement and evaluation method of test chamber for air cleaner
- JJF (Light Industry) 102-2018 Air Purifier Performance Test Chamber Calibration Specifications
- Determination of harmful substance emissions from synthetic sports surfaces—Environmental chambers method
- The Climate Chamber for Determination of Formaldehyde Emission
- Antibacterial properties of decorative materials for green campuses

1.8 Production workshop



Laser cutting



Bending



Workshop 1



Workshop 2



Workshop 3



Workshop 4

1.9 Patent certificate

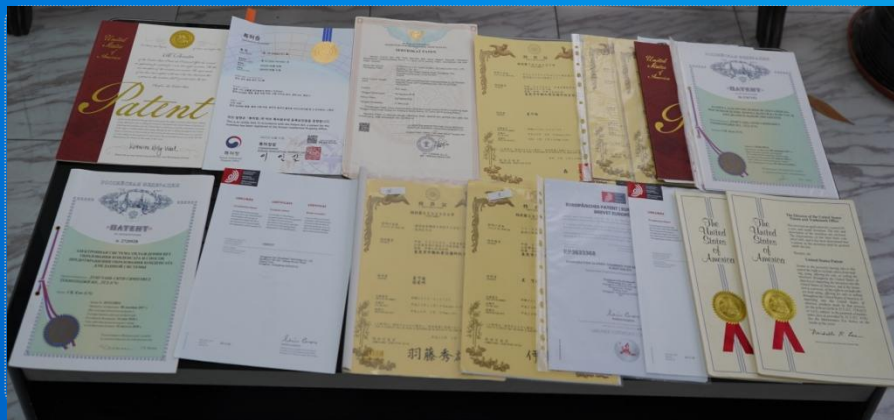
35 invention patents



More than 90 utility model patents



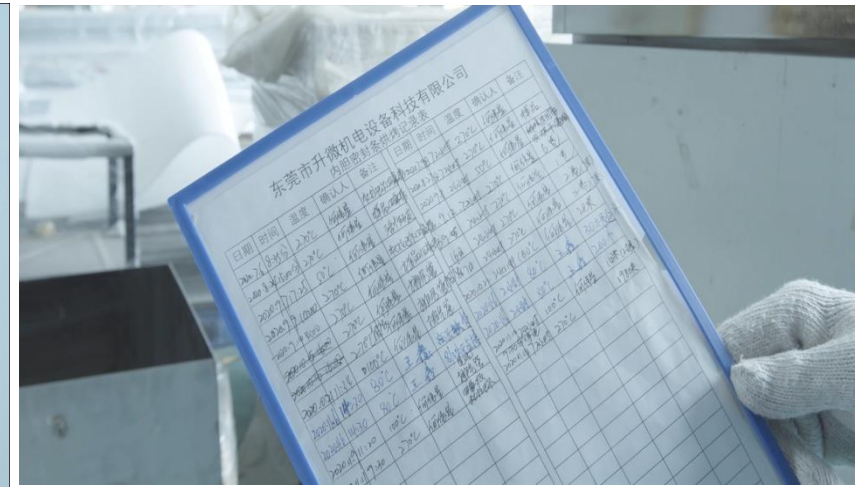
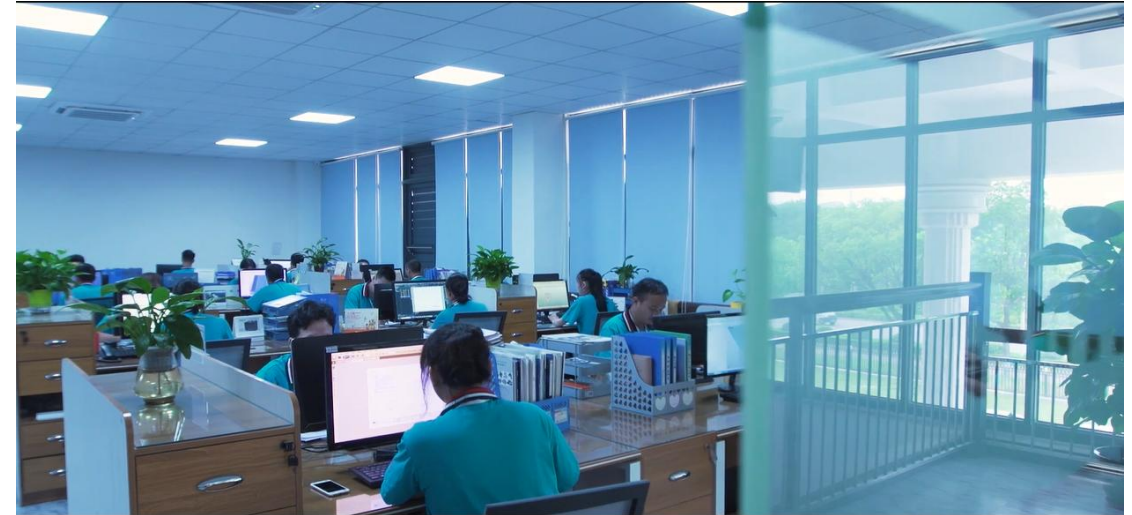
6 invention patents in Japan, the United States and Europe



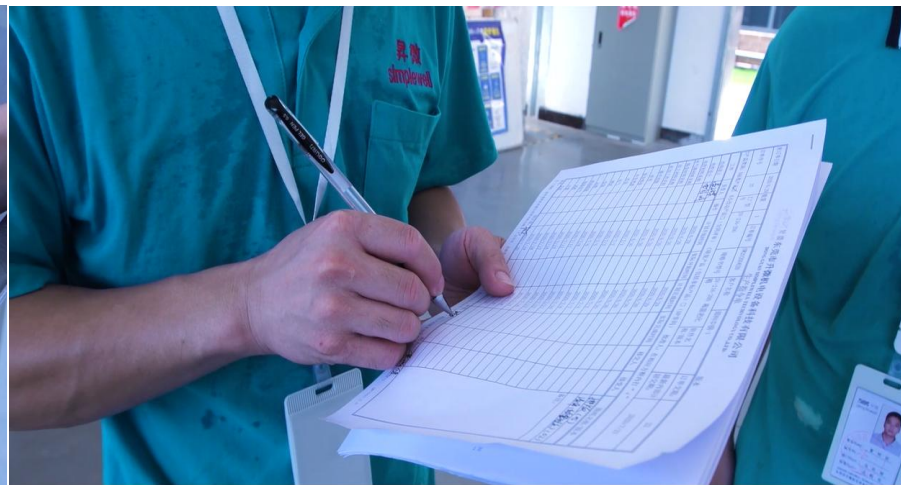
02
Part

Production Quality Control

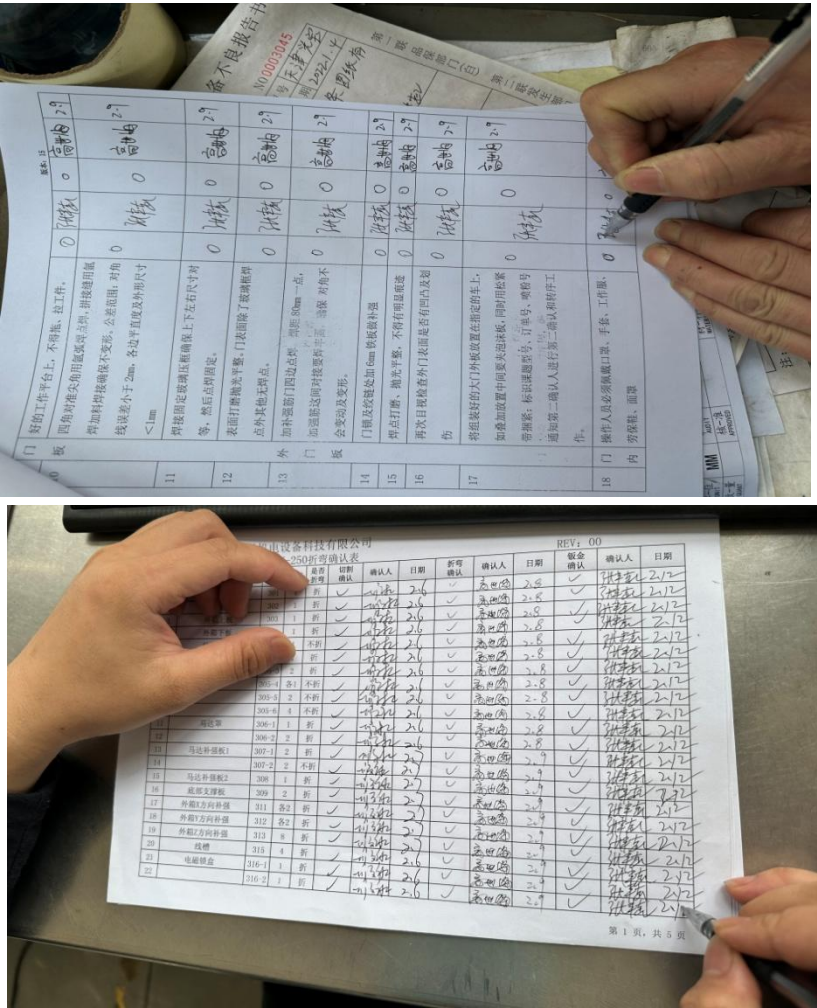
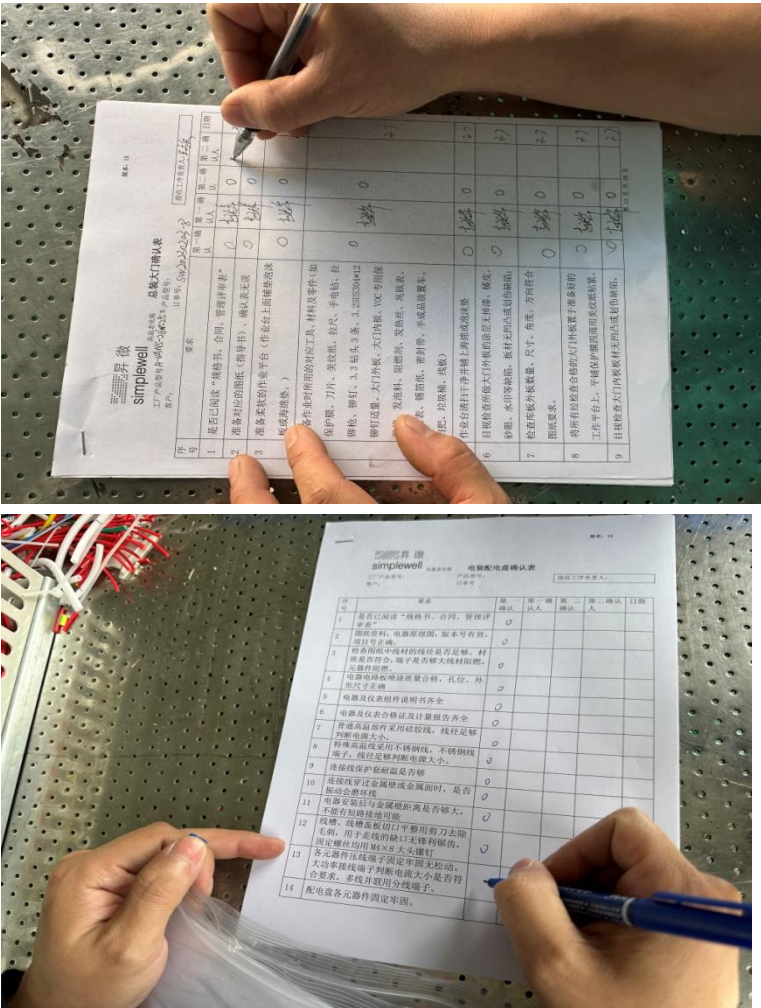
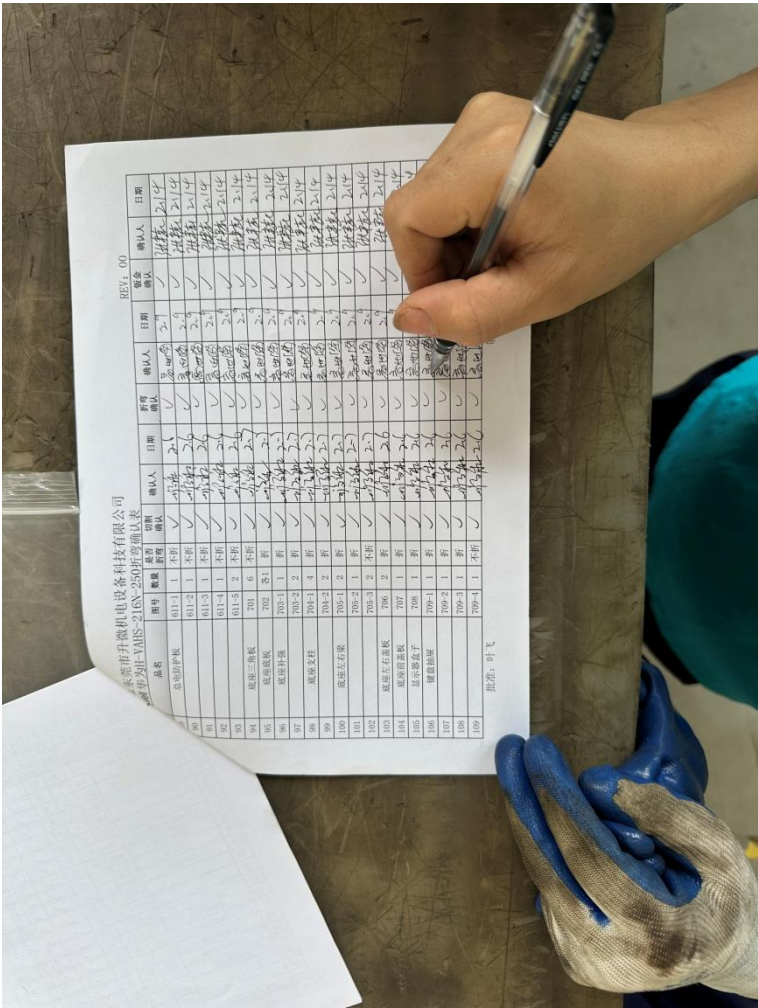
2.1 Design review and incoming inspection



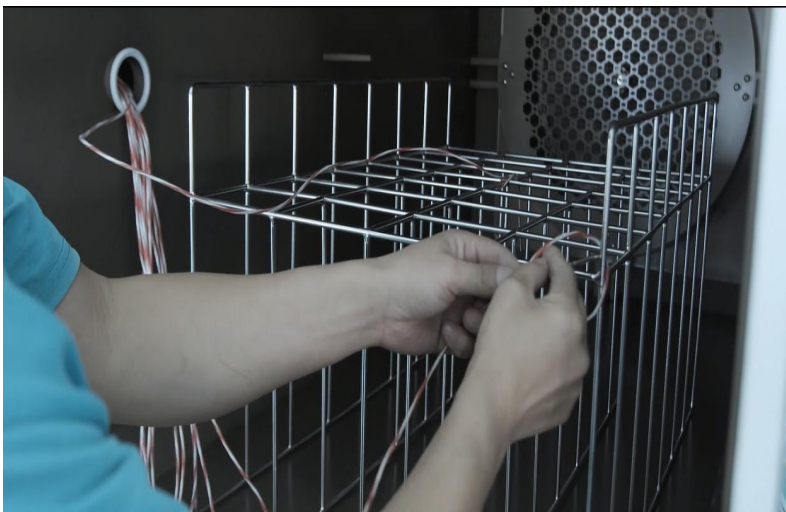
2.2 Process inspection, process confirmation handover



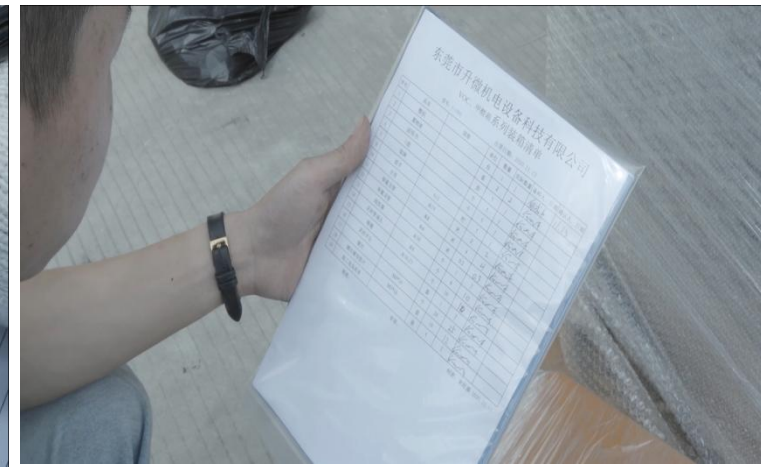
2.2 Process inspection, process confirmation handover



2.3 Debugging and Calibration



2.4 Shipping inspection confirmation



2.5 Type inspection

新开发控制器温湿度测试报告

| | | | | | | | | | |
|--|-----------------------|---------------------------------------|----------------------------------|-------|------|------|-------------|--------|--|
| 产品名称 | 温度控制器 | 产品型号 | SF0-056 | 产品 ID | | 测试平台 | NTH420-00 | | |
| 产品协议 | Modbus | 硬件版本 | 003 | | | 软件版本 | Ver202/0304 | | |
| 起始日期 | 2021.3.5 | 测试目的 | 验证硬件是否能正常运行以及稳定性。 | | | 测试总结 | | | |
| 结束日期 | 2021.4.10 | | | | | | | | |
| 测试员 | 宋双杰 | | | | | | | | |
| 接通道 1 传感器, DI 输入短接 DI4, PCB+触摸屏通电 DC24V, 放置测试箱且线路板绝缘防护。控制器运行状态 | | | | | | | | | |
| 测试项目 | 测试内容 | 测试步骤 | 测试标准 | 测试结果 | 是否通过 | 样品测试 | 生产测试 | Bug 描述 | |
| 外观 | PCBA 外观 | 检查 PCBA 元器件 | 检查元器件是否有虚焊、连锡、少件、错件等不良。 | | OK | OK | OK | | |
| 硬件性能测试 (仅针对 PCBA) | 电压范围 | PCBA 主板放入测试架, 观察测试架上电压值、 | 24v 电压范围: 10v~28v | | | | | | |
| | 电流范围 | 电流值是否正常 | 整机电流: 150mA~300mA | | OK | OK | OK | | |
| | 高温测试 | 高温 60℃/8 小时, 测试过程中进行通电、断电 1 小时的间隔操作。 | 设备正常运行, 温度显示正常 | | OK | OK | OK | | |
| | 低温测试 | 低温 -20℃/8 小时, 测试过程中进行通电、断电 1 小时的间隔操作。 | 设备正常运行, 温度显示正常 | | OK | OK | OK | | |
| | 高温老化 | 通电, 高温 60℃连续工作 12h. | 设备正常运行, 温度显示正常 | | OK | OK | OK | | |
| | 湿度老化 | 通电, 高温 38℃/93%连续工作 12h. | 设备正常运行, 温度显示正常 | | OK | OK | OK | | |
| | 指示灯 | 查看指示灯状态 | 1.电源指示 LED8 常亮 2.状态指示 LED6 闪烁 | | OK | OK | OK | | |
| | 串口屏 RS232通信 | 接上串口屏, 并操作界面, 观察是否可以正常操作 | 串口屏界面操作正常 | | OK | OK | OK | | |
| | U 盘数据读取 (含 SPI flash) | 插入 U 盘, 做数据保存操作, 观察数据导出是否正常, 重复操作 3 次 | U 盘数据读取正常 | | OK | OK | OK | | |

Controller environmental resistance test



Type test: road transport simulation test

03
Part

Product introduction

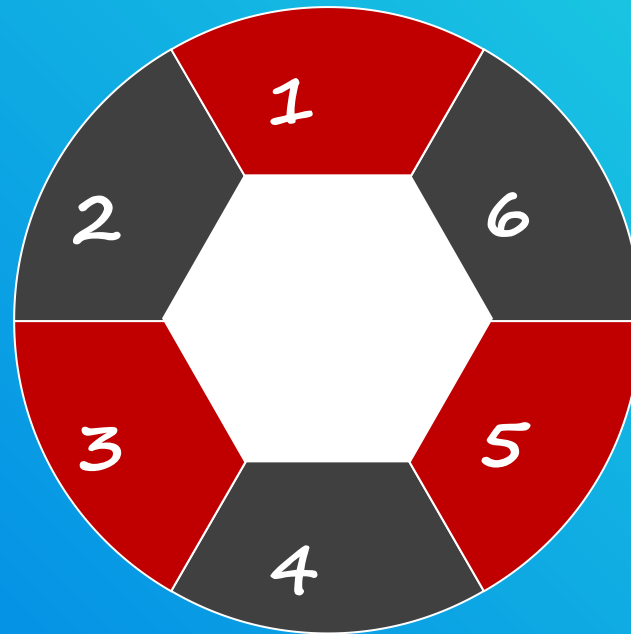
(What we do)

3.1 Operating products

Formaldehyde and VOC volatile gas detection equipment

Environmental simulation and reliability testing equipment

Vehicle and parts environmental testing equipment



Air filter and filter material performance testing system

High temperature aging test equipment

Biodegradation, cultivation environment test system, laboratory equipment

3.2 Leading product



01

Formaldehyde and VOC volatile gas detection equipment

- Vehicle VOC test chamber
- Furniture/material formaldehyde/VOC emission chamber
- Auto interior VOC emission chamber
- Auto interior VOC emission chamber (Sampling bag method)
- VOC pretreatment chamber
- VOC accelerated evaporation elimination chamber
- Fuel closed evaporation chamber
- Refrigerant leak detection chamber
- Carbonation tank inspection chamber
- Air filter and filter material test chamber

02

Environmental simulation and reliability testing equipment

- Temperature humidity test chamber
- Rapid temperature change test chamber
- Thermal shock test chamber
- Walk-in temperature humidity test chamber
- Solar photovoltaic Dual 85/95 test chamber
- High temperature aging test chamber
- Battery charge/discharge test chamber

03

Vehicle and parts environmental testing equipment

- Vehicle environmental test chamber
Sunlight simulation, rain, drum exhaust emission, road vibration, etc.
- Auto parts environmental test chamber (infrared light simulation)
- Automobile drive shaft fatigue testing machine
- Automobile dust cover testing chamber
- Temperature vibration and abnormal sound test chamber for auto parts

3.3 Product display-Formaldehyde and VOC volatile gas series



1~30 cubic VOC emission chamber



VOC emission chamber for outdoor product



1m³ formaldehyde emission chamber



Sample pretreatment chamber



Auto interior VOC emission chamber
(Sampling bag method)



Vehicle VOC test chamber

3.4 Product display-Environmental simulation and reliability test series



NTH series temperature humidity test chamber



Two zone thermal shock test chamber



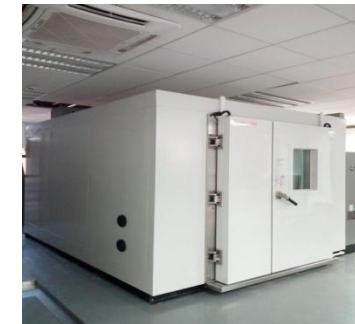
3 zone thermal shock test chamber



STH series temperature humidity test chamber



Rapid temperature change test chamber



Walk in temperature humidity test chamber

3.4 Product display-Environmental simulation and reliability test series



SOVU ventilation aging oven



SV high temperature oven



Battery charge/discharge test chamber



Ozone test chamber



SH high temperature oven



500°C aging oven

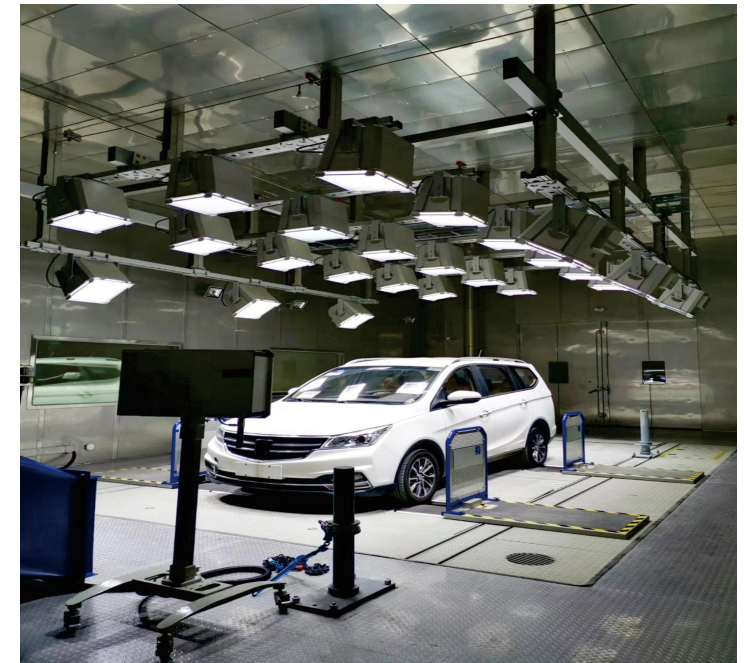
3.5 Product display-Vehicle and auto parts environmental test series



Airbag detonation test chamber



Vehicle high and low temperature test chamber



**Vehicle hub (sunshine simulation)
test chamber**

3.5 Product display-Vehicle and auto parts environmental test series



**Three comprehensive test chambers
(temperature, humidity and vibration)**



**Auto parts walk in temperature humidity test
chamber**

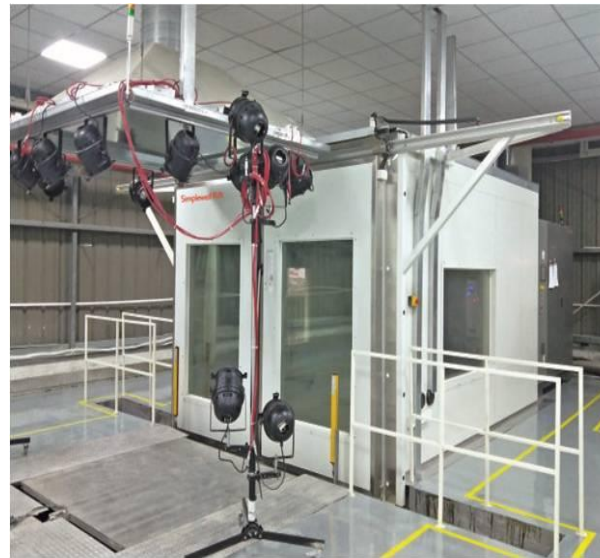


Auto parts thermal shock test chamber (TC)

3.5 Product display-Vehicle and auto parts environmental test series



Vehicle salt spray test chamber



Airbag detonation test chamber



**Temperature humidity low pressure test
chamber**

3.5 Product display-Vehicle and auto parts environmental test series



Auto parts walk in temperature humidity test chamber (small chamber)



Auto parts walk in temperature humidity test chamber (large chamber)

3.5 Product display-Vehicle and auto parts environmental test series



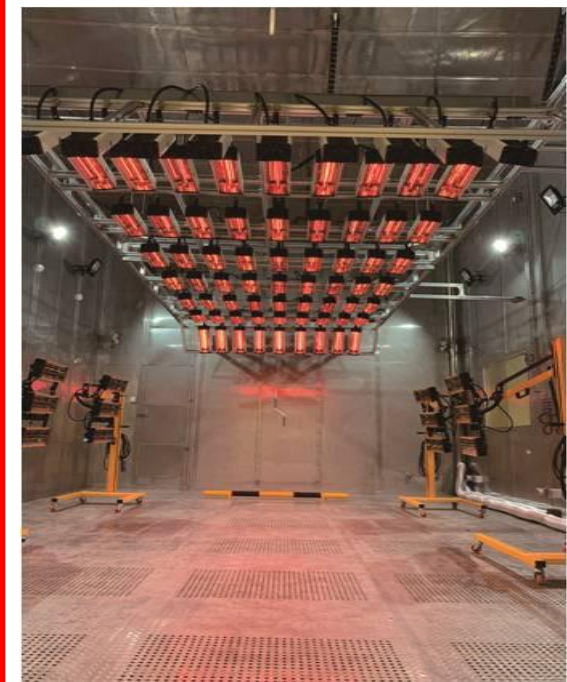
Charge/ discharge high and low
temperature damp heat test chamber



Vehicle hub high and low
temperature + sunlight simulation



Large airbag
detonation test chamber



High and low temperature test +
infrared

3.5 Product display-Vehicle and auto parts environmental test series

Volkswagen PV1200&PV2005&BMW PR standard test



3.5 Product display-Vehicle and auto parts environmental test series



Thermal shock test chamber (small)



Mobile basket

3.5 Product display-Vehicle and auto parts environmental test series



Temperature, humidity and vibration comprehensive test chamber (small lift type)



Temperature, humidity and vibration comprehensive test chamber (Gantry type)

3.6 Product display-Laboratory equipment series



SST series standard incubator



SCO series CO2 incubator



SFO series forced convection oven

3.6 Product display-Laboratory equipment series



SLO series refrigerated incubator



SPC series growth chamber



SSD series safety drying oven

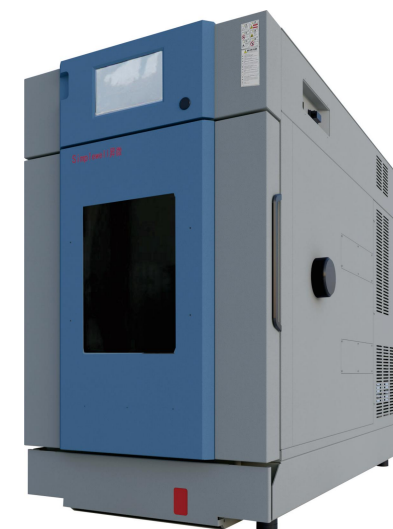
3.6 Product display-Laboratory equipment series



SVD series vacuum drying oven



SFR series free convection oven



Bench-top climate test chamber

3.7 Product display-**Vehicle VOC test chamber**



3.7 Product display



VOC test chamber (Sampling bag method)

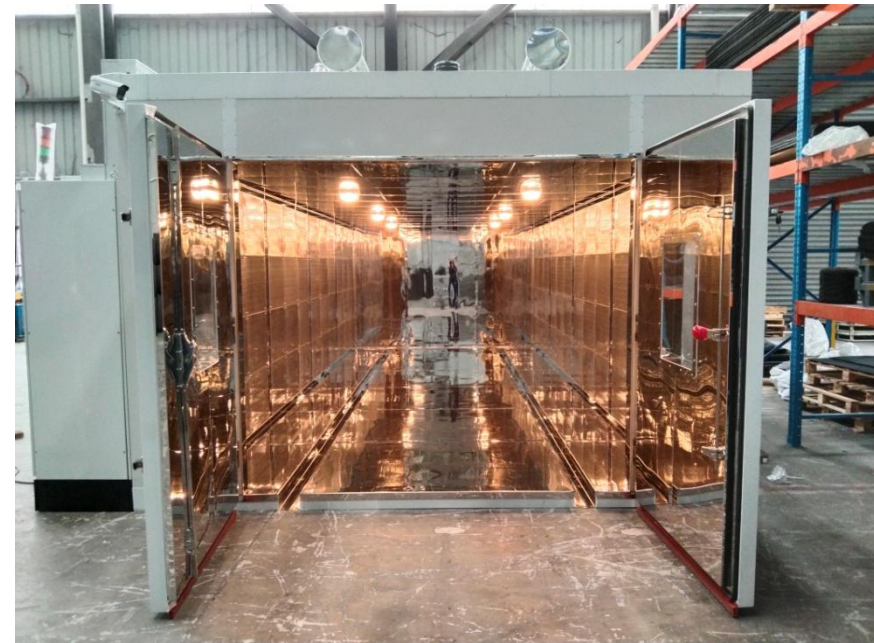


SVOC micro emission chamber

3.7 Product display



VOC pretreatment chamber



VOC clean baking chamber

3.7 Product display



1m3 VOC emission chamber



Car odor VOC, HC test chamber

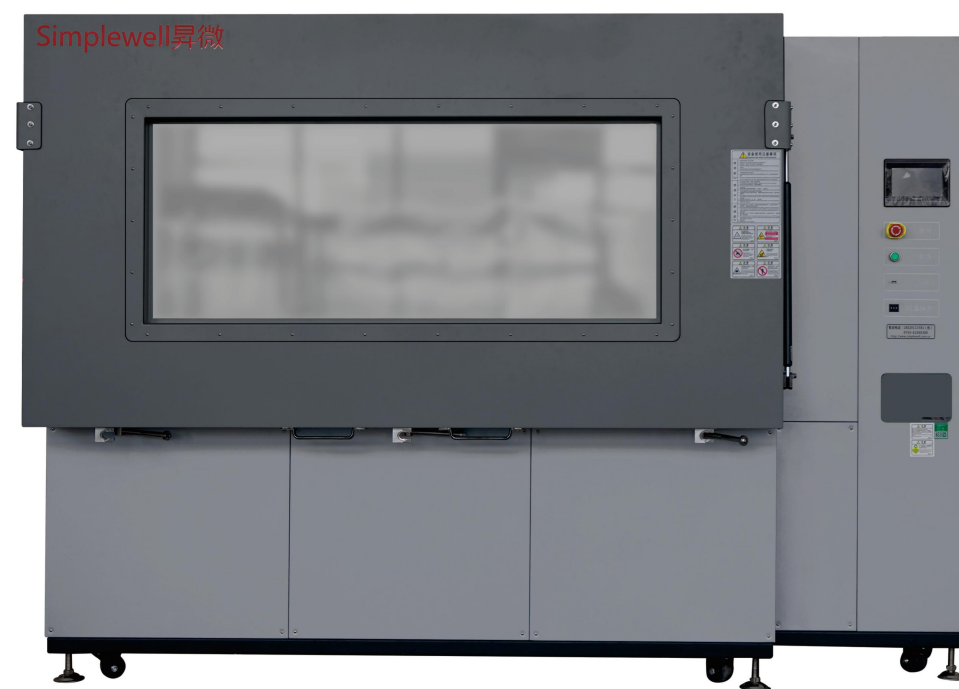


Energy-saving VOC emission chamber

3.7 Product display



Evaporative pollutant environmental chamber



Refrigerant leak detection test chamber

3.7 Product display



**VOC emission chamber
for outdoor products**



VOC pretreatment chamber



**Energy-saving formaldehyde
emission test chamber**

04
Part

Partner
(Our market)

4.1 Testing agency



4.2 National Testing Unit

| | | | | |
|--|---|---|---|---|
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|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

4.3 Automobile manufacturers



Das Auto.



北京现代



长安福特



中国一汽



长安汽车



神龙汽车



YUTONG



吉利汽车
GEELY AUTO



长城汽车



广汽集团
GAG GROUP



上汽通用五菱
SGMW



4.4 Enterprise customers



Simplewell 昇微

Thanks for watching

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