2020

Haotian Test Equipment

《Company Profile》

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01  Enterprise Profile
02  Enterprise Culture
03  Office & Workshop
04  Products Introduction
05  Successful Cases Share
06  Company Prospects
PART 1

Company Profile

※ Haotian Profile
Established in 2013, is a national high-tech enterprise focusing on the production of simulated reliability environmental testing equipment and integrating production, marketing research and development. We have a number of experienced technical management personnel and efficient professional after-sales service personnel, with independent mechanical design and software development capabilities. Also have strong technical power, advanced manufacturing technology, and excellent product quality, confirm to the UL, ASTM, JIS, GB, GB / T, ISO. etc, and other executive standards.
Products contain the mini environment test chamber, high and low temperature test chamber, programmable constant temperature humidity test chamber, alternating damp heat test chamber, combined type high low temperature chamber, fast change rate temperature chamber, battery high & low temperature explosion proof chamber, thermal shock chamber, UV aging test chamber, precision drying oven, vacuum oven, dust free oven, explosion proof oven, xenon aging test chamber, water resistant (rainproof) test chamber, dust proof test chamber, 3 comprehensive (temperature humidity & vibration) test chamber, walk-in climatic chamber, aging test room, salt spray tester, simulate transport vibration chamber, drop tester, tensile tester, etc, and design of the non-standard products. Since the establishment of the brand, HAOTIAN has successively won the reputation of reliable quality brand of China’s instrument industry, Independent innovation brand of China’s instrument industry, honor of China’s scientific and technological pioneer enterprise, national AAA credit demonstration company, Guangdong contract abiding and credit respecting enterprise and national high-tech enterprise, and is a key tax paying enterprise in Dongguan city. And after years of development, HAOTIAN has been expanding its scale. It has set up branches in major hub cities in China, with sales and service network covering all over the world. With the company's leading technology and perfect after-sales service, we have established ISO9001:2015 quality management system and ISO14001:2015 environmental management system.
PART 2

Company Culture

※ Culture  ※ Honor  ※ Team
※ Exhibition  ※ Company Style
Enterprise Spirit
To create excellent service, to pursue customer satisfaction; to serve attentively, to be perfect, to inspect customer demand and to exceed customer expectation.

Value Concept
Talent as the root, integrity-based, customer-oriented, brand-oriented enterprise values.

Cultural Structure
The company will continue to open up, innovation, trustworthy, customer first as the purpose, adhering to the people-oriented, combined with international testing standards and customer specific testing needs as the principle, to establish a new banner of Chinese test equipment industry.

Corporate Mission
In order to meet the needs of customers, we should provide better products to customers, gain customers' trust and support with excellent quality and quick and responsible work enthusiasm, and lay a foundation for the company to create profits and establish favorable conditions for creating permanent operation.

All colleagues of our factory must implement the quality policy and quality objectives according to the above quality commitment. Establish compliance with continuous improvement quality management requirements.
The qualification and honor of Haotian equipment witness the growth process of the company. In the years to come, we will continue to innovate continuously, create better value for customers and make more excellent products.
Independent research and development, Independent design,

Independent innovation, Credible brand.

The qualification and honor of Haotian equipment witness the growth process of the company.

In the future, we're going to innovate continuously, create better value for customers and make more excellent products.
We come from all over the world, but the common goal breeds the same ideal. The starting point is different, but the destination is the same.
At this moment, young hearts get together, unite, don't give up, and bravely set sail.
<< Real Photos Of The Exhibition II
Real Photos Of The Exhibition III
公司风格

团队风采

人在一起叫聚会

在一起叫团队

东莞皓天试验设备有限公司
全体同仁祝贺祖国70周年庆典
PART 3 Office & Workshop
※ Office
※ Conference room
※ Production Workshop
Office And Workshop

Receptionist

Culture Corridor

Wall of Honor

TV Interview

Conference Room

Rest Room
<< Production Workshop I
PART 4

Products Introduction

※ Partially Products
※ Products characteristic
※ Partially products show
<< Constant Temperature Humidity Chamber

Small size, high thermal compensation, low noise, energy saving and power saving;
Intuitive curve interface with USB download function;
Electronic sensor; don't hang wet cloth, high accuracy, low maintenance cost;

<table>
<thead>
<tr>
<th>Mold</th>
<th>SMC-80PF</th>
<th>SMC-100PF</th>
<th>SMC-150PF</th>
<th>SMC-225PF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner size(cm)</td>
<td>W40<em>D40</em>H50cm</td>
<td>W50<em>D40</em>H50cm</td>
<td>W50<em>D50</em>H60cm</td>
<td>W50<em>D60</em>H75cm</td>
</tr>
<tr>
<td>Exterior size(cm)</td>
<td>W67<em>D112</em>H151</td>
<td>W72<em>D112</em>H151</td>
<td>W77<em>D122</em>H161</td>
<td>W44<em>D132</em>H180</td>
</tr>
<tr>
<td>Temperature range</td>
<td>0℃<del>+150℃, -60℃</del>+150℃</td>
<td>-20℃<del>+150℃, -70℃</del>+150℃</td>
<td>-40℃<del>+150℃, -70℃</del>+180℃</td>
<td></td>
</tr>
<tr>
<td>Humidity range</td>
<td>10%RH<del>98%RH, 20%RH</del>98%RH</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The high and low temperature explosion-proof aging test chamber is suitable for the reliability test of industrial products at high and low temperatures. The performance indexes of components and materials of electronic and electrical, automobile and motorcycle, aerospace, ship weapons, colleges and universities, scientific research institutions and other related products are tested under the condition of high and low temperature (alternating) cycle change.

<table>
<thead>
<tr>
<th>Mold</th>
<th>T1C-80P1-D</th>
<th>T1C-150P1-D</th>
<th>T1C-225P1-D</th>
<th>T1C-408P1-D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner size(cm)</td>
<td>W40<em>D40</em>H50cm</td>
<td>W50<em>D50</em>H60cm</td>
<td>W50<em>D60</em>H75cm</td>
<td>W60<em>D80</em>H85cm</td>
</tr>
<tr>
<td>Exterior size(cm)</td>
<td>W<em>90</em>D135*H175</td>
<td>W100<em>D145</em>H185</td>
<td>W100<em>D155</em>H200</td>
<td>W110<em>D175</em>H210</td>
</tr>
<tr>
<td>Temperature range</td>
<td>0℃<del>+150℃ -60℃</del>+150℃</td>
<td>-20℃<del>+150℃ -70℃</del>+150℃</td>
<td>-40℃<del>+150℃ -70℃</del>+180℃</td>
<td></td>
</tr>
<tr>
<td>Humidity range</td>
<td>20%RH~98%RH</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Fast Change Rate Temperature Chamber

The fast change rate temperature chamber is suitable for aerospace products, information electronic instruments and meters, materials, electricians, electronic products, and various electronic components to test the performance indicators of products under the condition of rapid temperature change.

<table>
<thead>
<tr>
<th>Model</th>
<th>TEB-225F</th>
<th>TEB-408F</th>
<th>TEB-600F</th>
<th>TEB-800F</th>
<th>TEB-1000F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner size (cm)</td>
<td>W50<em>D60</em>H75</td>
<td>W60<em>D80</em>H85</td>
<td>W80<em>D80</em>H90</td>
<td>W100<em>D80</em>H100</td>
<td>W100<em>D100</em>H100</td>
</tr>
<tr>
<td>Temperature range</td>
<td>0°C~+150°C -60°C~+150°C</td>
<td>-20°C~+150°C -70°C~+150°C</td>
<td>-40°C~+150°C -70°C~+180°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linear test</td>
<td>5°C, 10°C, 15°C, 20°C.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-linear</td>
<td>5°C, 10°C, 15°C, 20°C, 25°C.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Industry electronics, military, plastic, hardware, chemical and other industries. Such as: electronic parts, automotive parts, laptops and other products virtual climate environment testing. It can simulate the test conditions of high temperature and high humidity / high temperature and low humidity / low temperature high humidity / low temperature and low humidity / high temperature / low temperature and other different environment. It's also equipped with high accuracy programming control and fixed-point control system which is easy to operate and learn, providing good test performance. The best choice of universities, laboratories, office buildings and scientific research institutions; The structure design is comprehensive, and the water and electricity separation design is carried out; The noise should be controlled below 62db; The temperature uniformity is good and the test precision is high; The stratosphere is designed to prevent water dripping from the top of the test;

<table>
<thead>
<tr>
<th>Model</th>
<th>SMC-22PF</th>
<th>SMC-36PF</th>
<th>SMC-50PF</th>
<th>SMC-63PF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner size(cm)</td>
<td>W30<em>D25</em>H30</td>
<td>W30<em>D30</em>H40</td>
<td>W35<em>D35</em>H40</td>
<td>W40<em>D40</em>H40</td>
</tr>
<tr>
<td>Mini type exterior size(cm)</td>
<td>W51<em>D80</em>H112</td>
<td>W52<em>D90</em>H138</td>
<td>W57<em>D95</em>H138</td>
<td>W65<em>D95</em>H138</td>
</tr>
<tr>
<td>Table type exterior size(cm)</td>
<td>W50<em>D108</em>H84</td>
<td>W50<em>D113</em>H94</td>
<td>W55<em>D118</em>H94</td>
<td>W60<em>D122</em>H94</td>
</tr>
<tr>
<td>Temperature humidity range</td>
<td>0℃<del>+150℃ -60℃</del>+150℃</td>
<td>-20℃<del>+150℃ -70℃</del>+150℃</td>
<td>-40℃<del>+150℃ -70℃</del>+180℃</td>
<td>20%RH~98%RH</td>
</tr>
</tbody>
</table>
High & Low Temperature Climate Chamber

Imported high efficiency hermetic and power saving compressor;
Wave fin type forced draft condenser;
Slope type FIN-Tube evaporator;
Original imported solenoid valve: drying filter, expansion valve and other refrigeration components;
Inner spiral K-type refrigerant copper tube;
U-type fin type high-speed electric heating tube;
Heating and cooling systems are independent;

<table>
<thead>
<tr>
<th>Model</th>
<th>THC-012PF</th>
<th>THC-015PF</th>
<th>THC-020PF</th>
<th>THC-030PF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner size (cm)</td>
<td>W100<em>D100</em>H120</td>
<td>W100<em>D100</em>H150</td>
<td>W120<em>D120</em>H120</td>
<td>W150<em>D120</em>H150</td>
</tr>
<tr>
<td>Exterior size(cm)</td>
<td>W125<em>D194</em>H210</td>
<td>W125<em>D250</em>H203</td>
<td>W145<em>D225</em>H203</td>
<td>W175<em>D225</em>H203</td>
</tr>
<tr>
<td>Temperature range</td>
<td>0°C~+150°C</td>
<td>-20°C~+150°C</td>
<td>-40°C~+150°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>-60°C~+150°C</td>
<td>-70°C~+150°C</td>
<td>-70°C~+180°C</td>
<td></td>
</tr>
</tbody>
</table>
The thermal shock test chamber, also known as high and low temperature impact test chamber, is mainly used in electronic and electrical components, automation parts, communication components, automobile parts, metal, chemical materials, plastics and other industries, national defense industry, aerospace, military industry, BGA, PCB base plate, electronic chip IC, semiconductor ceramics and polymer materials.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Test basket size (cm)</td>
<td>W35<em>H35</em>D30</td>
<td>W40<em>H40</em>D35</td>
<td>W40<em>H40</em>D50</td>
<td>W60<em>H60</em>D50</td>
<td>W70<em>H70</em>D60</td>
<td>W85<em>H85</em>D80</td>
</tr>
<tr>
<td>Model(3)</td>
<td>TSD-50F-3P</td>
<td>TSD-80F-3P</td>
<td>TSD-100F-3P</td>
<td>TSD-150F-3P</td>
<td>TSD-252F-3P</td>
<td>TSD-480F-3P</td>
</tr>
<tr>
<td>Inner size (cm)</td>
<td>W35<em>H35</em>D40</td>
<td>W50<em>H50</em>D40</td>
<td>W50<em>H50</em>D40</td>
<td>W60<em>H60</em>D50</td>
<td>W70<em>H70</em>D60</td>
<td>W80<em>H80</em>D60</td>
</tr>
<tr>
<td>Shock temperature</td>
<td>High temperature: +60℃~+150℃</td>
<td>Low temperature: -40℃~ -10℃</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Walk-in temperature humidity chamber is mainly used for the adaptability test of electrical and electronic products, their original devices and other materials in high temperature, low temperature, humid and hot environment when they are stored, transported and used.

**Model**
- Customized size (Water cool type)
- Customized size (Air cool type)

**Temperature range**
- -70°C~+85°C (-70°C~+180°C)
- -70°C~+85°C (-70°C~+180°C)

**Humidity range**
- 5%RH~98%RH (20%RH~98%RH)
- 5%RH~98%RH (20%RH~98%RH)
The compound salt spray test chamber breaks through the concept of traditional salt spray chamber. In addition to the function of normal salt spray testing machine, it also combines with the function of alternating (cyclic) salt spray test. It provides neutral corrosion and filiform corrosion test environment, and has hot air drying, damp heat, forced drying and salt spray test environment. It has been widely used in metal electrochemical corrosion resistance test of automobile and locomotive parts, aviation equipment, photographic equipment, building materials, electric coating coating and electronic motor system.
Tower/Box Type

- Imported brand UVA lamps are selected. The test is closer to the outdoor results.
- Good illumination, fast test & long service life.
- Meet the SAE J2020 test standard.
- Customized according to customer requirements.

<table>
<thead>
<tr>
<th>Model</th>
<th>HT-UV3</th>
<th>HT-UV2</th>
<th>HT-UV1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test function</td>
<td>Fluorescent light, condensation and rain</td>
<td>Fluorescent light, condensation</td>
<td>Fluorescent light</td>
</tr>
<tr>
<td>Effective irradiation area</td>
<td>W900*H210 (mm)</td>
<td>W900*H210 (mm)</td>
<td></td>
</tr>
<tr>
<td>Wavelength range</td>
<td>UVA-340 lamp within 315nm<del>400nm, UVB-313 lamp within 290nm</del>315nm.</td>
<td>Wavelength range</td>
<td></td>
</tr>
<tr>
<td>Max. irradiation strength</td>
<td>1.2W/m² within 340nm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
It is applicable to non-metallic materials and organic materials (such as coating, paint, rubber, plastic and its products) to test the aging degree of relevant products and materials under the change of climate conditions such as sunlight, humidity, temperature and condensation. In a short time to get discoloration, fading and so on.

- Imported direct current xenon lamp tube, long service life and high efficiency.
- Digital power control output, the light will not flicker.
- With light signal probe, automatic feedback real-time working condition.
- The window with air shading device.

<table>
<thead>
<tr>
<th>Model</th>
<th>HT-QSUN-216</th>
<th>HT-QSUN-512</th>
<th>HT-QSUN-010</th>
<th>HT-QSUN-014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner size (cm)</td>
<td>W60<em>D60</em>H60</td>
<td>W80<em>D80</em>H80</td>
<td>W100<em>D100</em>H100</td>
<td>W120<em>D100</em>H120</td>
</tr>
<tr>
<td>Temperature humidity range</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Normal+10℃<del>90℃, 30%RH</del>98%RH.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spectrum wavelength</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>290nm<del>800nm (Lighting intensity: 550W/m²</del>1200W/m²)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
It is used to determine the adaptability of electrical and electronic products to the rain environment. The box rain test chamber is suitable for testing the waterproof performance of automobile lamps, wipers, waterproof strips, locomotive instruments and low-voltage electrical enclosure protection.

- Two styles are available (top spray or side spray).
- Frequency conversion high-pressure water pump.
- Large window with wiper.

### IPX1~IPX9K

<table>
<thead>
<tr>
<th>Model</th>
<th>IPX3~IPX4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner size(cm)</td>
<td>W80<em>D80</em>H80  W100<em>D100</em>H100  W120<em>D120</em>H120 Handle IPX34 devise</td>
</tr>
</tbody>
</table>

### IPX5~IPX6

<table>
<thead>
<tr>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner size(cm)</td>
</tr>
</tbody>
</table>

### IPX9K

<table>
<thead>
<tr>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner size(cm)</td>
</tr>
</tbody>
</table>
High temperature industry oven

**High precision**
- High precision type.
- Samwontech touch-tone controller (ST series).
- 0 customer complaint.
- Beautiful outside design.
- Small cover area.
- 300 Degree Celsius high temperature.
- Good heat dissipation effect.
- High quality casters.
- Low noise.

<table>
<thead>
<tr>
<th>Model</th>
<th>ST-72</th>
<th>ST-138</th>
<th>ST-216</th>
<th>ST-512</th>
<th>ST-1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner size(cm)</td>
<td>W45<em>D40</em>H40</td>
<td>W55<em>D50</em>H50</td>
<td>W60<em>D60</em>H60</td>
<td>W80<em>D80</em>H80</td>
<td>W100<em>D100</em>H100</td>
</tr>
<tr>
<td>Temperature range</td>
<td>Normal ~300°C (400°C, 500°C, 700°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
With cold and high temperature resistant function

- Imported Tecumseh compressor.
- Cold Balance Technology 2.0.
- High precision control.
- -70°C~150°C.
- Eight protection devices.
- Laser numerical control technology.
- Materials for luxury thickening.
- Many patent certificates.
- It can be customized.

<table>
<thead>
<tr>
<th>Model</th>
<th>Customization model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>0°C~+150°C</td>
</tr>
<tr>
<td></td>
<td>-60°C~+150°C</td>
</tr>
</tbody>
</table>
Simulation of freight transport vibration

- Vibration frequency digital display, high precision;
- Synchronized silent broadband transmission, low noise;
- Sample fixture adopts guideway mode, which is convenient and safe to operate.
- Heavy channel steel base is equipped with shock absorber, easy to install, strong load and smooth operation.

<table>
<thead>
<tr>
<th>Model</th>
<th>TH-100MN</th>
<th>TH-120MN</th>
<th>TH-150MN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test table size (cm)</td>
<td>W100*D100cm</td>
<td>W120*D120cm</td>
<td>W150*D150cm</td>
</tr>
<tr>
<td>Max. load</td>
<td>100kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency range</td>
<td>100-300rpm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amplitude range</td>
<td>25.4mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vibration mode</td>
<td>Rotary</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Simulation of private car vibration

- Can custom working table size;
- Full function computer control;
- Max. load 100KG;
- 6 vibration directions;
- X/Y/Z axis partially independent vibration;
- 3 axises continuously vibration;

<table>
<thead>
<tr>
<th>Model</th>
<th>DT-100</th>
<th>DT-200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test table size (cm)</td>
<td>W500*D500cm</td>
<td>W750*D750cm</td>
</tr>
<tr>
<td>Frequency range</td>
<td>0.5-600Hz, 0.5-1000Hz, 0.5-3000Hz, 0.5-6000Hz.</td>
<td></td>
</tr>
<tr>
<td>Vibration direction</td>
<td>Up and down/front and back/left and right</td>
<td></td>
</tr>
<tr>
<td>Vibration mode</td>
<td>6 degrees of separation all in one machine (random, sine); 3 axises (simultaneous/independently/continuously) vibration on the same platform.</td>
<td></td>
</tr>
</tbody>
</table>
Equipped with computer

- Automatic calibration;
- Automatic display;
- Breaking judgment;
- Limit protection;
- Door type main engine;
- High precision system;
- Equipped with computer;
- It is easy to operate;
1. The upper and lower positions are limited, safe and reliable;
2. The lifting height can be adjusted arbitrarily within the scope of technical specifications to meet the different needs of users;
3. The drop test-bed adopts single guide rail guidance, and the lifting process is stable and reliable;
4. The drop test-bed can clamp the drop test in different directions of edge, surface and angle;
5. When installing, customers only need to put the machine on the flat marble or cement floor, without special foundation;
**Product Features**

Eight protection - Up to multiple domestic and foreign standards

- **Over-Current Protection** - Prevent excessive flow.
- **Over-voltage Protection** - Self protection in case of high voltage and over voltage.
- **Dry firing without water** - Prevent dry burning without water.
- **Over temperature protection** - Prevent excessive temperature.
- **Water shortage protection** - Prevent the machine from burning out due to lack of water.
- **No wind, no fire** - Self protection when there is no wind.
- **Leakage protection** - Effective protection, more peace of mind.
5

Some successful cases

※ Partially key cases share
※ Some partner
<< Success Stories I
部分用户案例（华为）
部分客户案例（美的集团）
Success stories V
<< Success Stories VII
PART 6

After Sales & Future

※ After Sales Service
※ Corporate Strategy Target
After-Sale Service

Professional after sales team

We have an excellent after-sales team, after-sales technical personnel with top-notch equipment and technical level, problem-solving speed, timely inspection, fast action, strong ability, accurate problem target positioning.

Company Commitment

Company commitment: all equipment free door-to-door installation and training, to provide quality service for life.
Showed Great Foresight!

Win The Future!

Everyone is united, and his strength breaks gold. Work together for win-win cooperation. Cooperation and development to create the future together.

Create Tomorrow Together
International Vision
Independent & Innovative Thinking
Constantly Strive for Excellence
Beyond Myself

Pursuit of Perfect Quality
Details Reflect Quality
Fabulous Communication
Refuse Mediocrity
Win-Win Cooperation
Together to create a promising future!

THE END

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Thanks