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Deliver The Best Testing Equipment to Our Customers.



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材料力学试验设备 环境模拟可靠性试验设备

Reliability and Mechanical Testing Equipment



Creative/创新

Efficiency/高效

Inheritance/传承

海达国际集团成立于2004年，总部位于珠三角腹地。坐落在素有世界工厂之称的广东省东莞市。是一家从事包装行业、家居行业、材料力学、光学测量、环境可靠性测试等检测设备的设计、研发、生产、销售、计量和售后服务的国家高新技术企业。集团总面积达60,000平方米，拥有4个独立仪器生产厂区，在中、医、华、南、华、北、华、东、华、中及西北五大区域建有15家分公司。海外服务网点超20个，覆盖东南亚、欧洲、北美以及中东地区。已为全球28,000多家客户提供优质服务。

主营业务范围：仪器生产、非标仪器定制、软件开发、计量检测及维修咨询包服务。公司通过ISO9000认证以及国际知名检测机构BV、SGS、TUV的多次认证，产品符合GB、ISO、ASTM、EN、JIS、TAPPI、ISTA、DIN、BS等国内外标准。投入大量研发资金，坚持研发一代、销售一代、储备一代的产品理念。始终走在行业的前端。参与家具测试标准编写，与国家质检单位共同起草CY/T229-2020行业标准；与国家纸制品中心、东莞质检院实验室共同开发行业测试仪器；并与多家知名单位共建可靠性实验室。与黄埔海关技术中心共建危险品包装实验室。

Haida established in 2004 in Dongguan City, where is the "Silicon Valley" of world manufacturing industry. It is a certified national high-tech enterprise engaged in design research, and development, production, sales, calibration, and after-sale service of test equipment, such as paper&packaging test equipment, Furniture test equipment, material mechanical test equipment, optical measurement equipment, environmental reliability testing equipment etc. With the persistent efforts of all staff, Haida owned 4 factories with total 60,000 square meters, 15 branch offices covers South China, North China, East China, Central China and Northwest China, as well over 20 overseas off-sites service sites covers Southeast Asia, Europe, North America and the Middle East with over 28,000 customers.

Haida main business scope includes: equipment production, non-standard equipment customization, software development, measurement and maintenance consulting services. The company has passed ISO9000 certification and multiple certifications by internationally renowned testing organizations such as BV, SGS, TUV, and its products comply with GB, ISO, ASTM, EN, JIS, TAPPI, ISTA, DIN, BS and other domestic and foreign standards. Meanwhile, invested a large amount of research and development funds to adhere to the product concept of R& D, sales and products refer to work of the forefront of the industry. Moreover, Haida participated in composing of furniture test standards and commonly drew up CY/T229-2020 industry standard with the National quality inspection, jointly developed industry test equipment with the National Paper Products Center and Dongguan Quality Testing Furniture laboratory, co-built the reliability laboratory with many well-known enterprises, and jointly built the dangerous articles packaging laboratory with Guangdong Huizhou Custom Technology Center.

Passion/激情 Persistence/坚持

展望未来，海达国际将践行“让每一家企业拥有高品质的检测仪器”的使命，秉承“创新、高效、传承、激情、坚持”的核心价值观，走绿色、低碳、环保的可持续发展道路，不断优化产品结构，实现企业自身的转型与升级。将海达全力打造成为技术先进、质量过硬、服务优质、合作共赢的检测仪器综合服务商，是海达人永恒的追求！

Looking forward to the future, haida will fulfill the mission of "Deliver the best testing equipment to our customer" and adhere to the core values of "Creative, Efficiency, Inheritance, Passion and Persistence", taking a green, low-carbon, and environmentally friendly sustainable development path, meanwhile, will continuously optimize the product structure to realize the transformation and upgrade of the enterprise itself, it is the eternal pursuit of haida people to build haida into a comprehensive provider of testing equipment with advanced technology, excellent quality, high-quality service, and win-win cooperation!

4 个制造基地

60,000 平方米厂房

2 项国家发明专利

630 名企业员工

28,000 余家客户



成为世界知名检测仪器企业

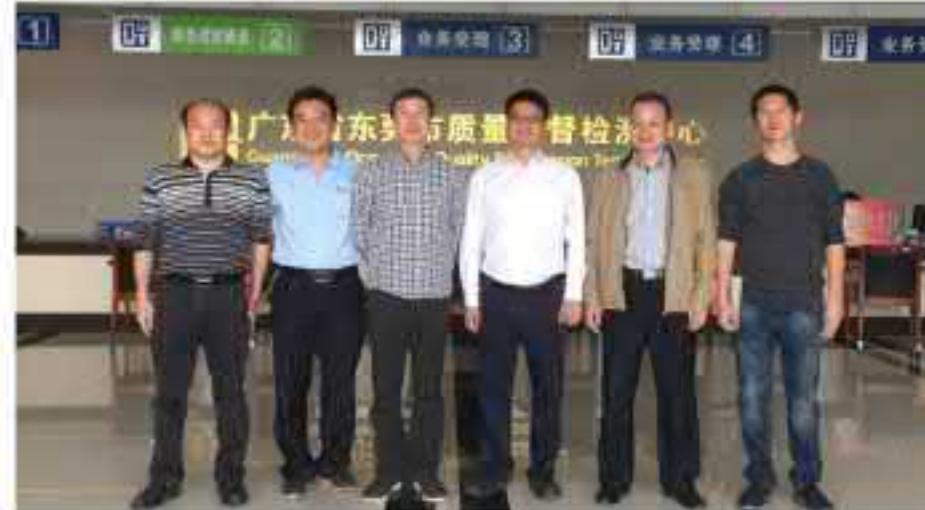
HAIDA
INTERNATIONAL

TO BE
THE WORLD CLASS
TESTING EQUIPMENT
ENTERPRISE

大事记

History

- 2004 • 10月成立东莞市海达仪器有限公司
Dongguan Haida Equipment Co.,Ltd established in October
- 2005 • 纸板锁模强度试验机、拉力试验机量产，并推向纸包、胶粘市场
Paper and board latching strength tester, tensile tester are in mass production and involved in paper & package industry and adhesive tape industry
- 2007 • 通过ISO9000认证，持续加大环境可靠性仪器研发、生产投入
Passed ISO9000 certification and continued to increase investment in R&D and production of environmental reliable test equipment
- 2008 • 获得00000771计量器具许可证
Obtained CMC 00000771 Certification
- 2012 • 6款产品荣获“高新技术产品”
6 products won the title of High-tech product
- 2013 • 与国家纸制品中心、东莞质检局实验室共同开发相关行业测试仪器
Jointly developed related industries test equipment with National Paper Products Center and Dongguan Quality Testing Furniture Laboratory
与华南农业大学合作共同研发食品类包装仪器
Jointly developed food packaging test equipment with South China Agricultural University
2款产品荣获发明专利
2 products Won the invention patent
- 2014 • 产品通过BV、SGS、TUV等国际机构认证
Products have passed certification by BV, SGS, TUV and other international organizations
外贸出口国家总数量突破100个
Exported countries over 100
- 2016 • 荣获国家“高新技术企业”称号，专利突破50项
Won the title of National 'High-tech Enterprise' and exceeded 50 patents
公司产值突破1个亿
The company's output value exceeded 100 million
- 2017 • 子公司驱动软件成立，首款无线传感器技术应用于力学类产品
The subsidiary Haida Triforce was established and the 1st wireless sensor technology was applied to mechanics products
- 2018 • BV、SGS、INTERTEK、TUV等知名检测机构将海达列入合格供应商名单
BV, SGS, INTERTEK, TUV and other well-known testing institutions have listed Haida in the list of qualified suppliers
海达技术委员会成立，由10名博士级专家为海达提供技术支持
Haida Technical Committee was established, with 10 doctor-level experts providing technical support for Haida
越南分公司、孟加拉分公司成立
Established Vietnam branch and Bangladesh branch
- 2019 • 20,000平米力学标准化工厂投产
20,000 square meters of mechanical standardization factory put into operation
越南分公司、孟加拉分公司成立
Established Vietnam branch and Bangladesh branch
- 2020 • 湖南达20,000平米工厂建设中
20,000 square meters of Hunan factory is under construction
集团总部入驻广东东莞天安数码城
Settled Group headquarter in Tian'an Cyber Park, Dongguan, Guangdong
成为信测经准技术公司优秀供应商
Become an excellent supplier of ENMET Co., Ltd
与东劳质检共建重点可靠性实验室
Co-build a key reliability laboratory with DQI(Dongguan Quality Testing)
江苏昆山工厂项目确定
Confirmed the project of Kunshan factory in Jiangsu province
- 2021 • 与广东黄埔海关技术中心共建危险品包装实验室
Jointly build a dangerous articles packaging laboratory with Guangdong Huizhou Customs Technology Center
集团仪器研究院成立
Established Group Research Institute
湖南工厂正式投产运营
Hunan factory officially put into operation



海达笃行“成为世界知名检测仪器企业”的愿景，重视平台建设与人才储备，共有员工630人，其中技术人员达150人，本公司本科以上学历300多名，研究生5名，博士生3名。

Haida adheres to the vision of "To be the World Class Testing Equipment enterprise" and attaches importance to platform construction and talent reserves. Having 630 employees which contain 150 technicians and more than 300 bachelors, 5 Masters, and 3 PhDs.

海达已荣获国家发明专利2项，各类实用新型专利100余项。同时与多所高等院校、科研院所建立产学研合作关系。现已建立5个产学研合作基地，并聘请20多名博士生导师担任顾问。

Haida have won 2 national invention patents and over 100 utility model patents. At the same time, established 5 industry-university-research cooperation bases with universities and research institutes and invited more than 20 doctoral supervision as consultants.

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材料力学检测仪器

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RELIABILITY TESTING EQUIPMENT

可靠性试验设备

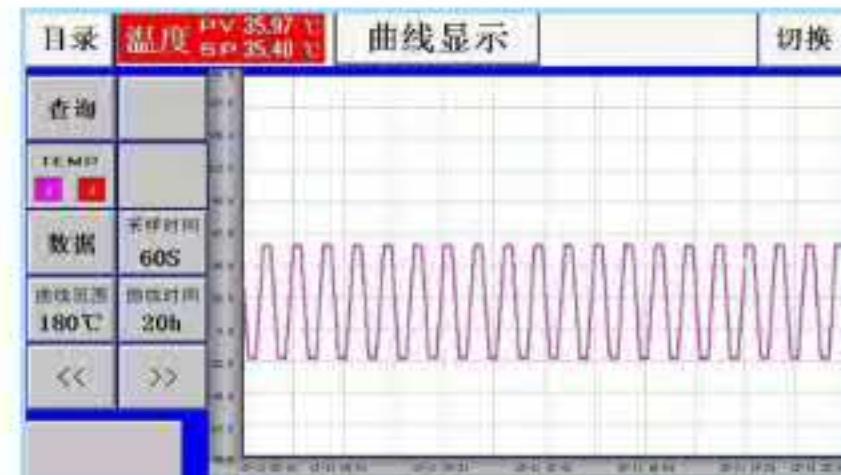
自主研发软件



可靠性试验设备研发软件

DEVELOPMENT THE SOFTWARE FOR RELIABILITY TEST SERIES

- 采用7寸高分辨率大屏显示，信息丰富；
- 32位高性能处理器，运算速度快；
- 24位高性能AD，支持热电偶、热电阻输入，测量分辨率高，最多支持4路温度输入；
- 自适应模糊控制算法，适合全区域范围控制；
- 两级权限设置，方便用户和制造商使用；
- 通用可编程的IO点，8路DI输入、10路继电器输出，方便制造商根据需要配置系统。
- Using 7-inch high-resolution screen display.
- 32-bit high-performance processor, calculate speed fast.
- 24-bit high-performance AD, support thermocouple, thermal resistance input, high measurement resolution, and 4 temperature input.
- Adaptive fuzzy control algorithm, suitable for the full range of control.
- Two levels of permission Settings, which is convenience for users and manufacturers to operation.
- General-purpose programmable IO points, 8-way DI input and 10-way relay output make it easy for manufacturers to configure the system according to requirement.



温度系列

HD-E702

可程式恒温恒湿试验箱（不锈钢款）

Constant Temperature and Humidity Chamber



主要技术参数 Technical Parameters

型号 Model	HD-E702-100/150/225/408/800/1000
调温调湿方式 Temp & Humid. adjust way	平衡调温调湿方式 (BTHC) PID智能调节 Balance temperature and humidity mode (BTHC) PID intelligent adjustment
温度范围/精度 Temp. range & accuracy	范围：-20℃~40℃~-70℃~150℃ 精度：0.01℃ Range: -20℃~40℃~-70℃~150℃; accuracy: 0.01℃
温度偏差 Temp. deviation	±1.5℃
温度波动度 Temp. fluctuation	<±0.5℃(空载); [注: 如按GB/T5170.2-2008表示, 波动度为<±0.25℃] <±0.5℃(without loading); Note: if according to GB/T5170.2-2008, temp. fluctuation is <±0.25℃
温度均匀度 Temp. uniformly	<2℃(空载), 50mm<SENSOR置放点(箱内箱壁内尺寸1/10处)<500mm <2℃(without loading), 50mm<SENSOR place point (1/10 distance of the inner box wall)<500mm
湿度范围/精度 Humid. range & accuracy	范围 range: 20%~98%RH, 精度 accuracy: 0.1%RH
湿度偏差 Humid. deviation	<±5%RH(湿度<75%RH时, 湿度偏差±5%RH); RH When humid. is 75%RH, humid. deviation is ±5%RH
湿度波动度 Humid. fluctuation	<±2%RH
升/降温速度 Heating-rate	升温: 平均3℃/min; 降温: 平均1℃/min(空载) Heating Rate: 3℃/min (average) Cooling Rate: 1℃/min (no load)
内箱材料 Internal material	304不锈钢 Stainless Steel 304
外箱材料 External material	不锈钢或喷塑处理 Stainless Steel Or Paint Spray
制冷方式 Cooling method	单级压缩, 二级压缩 Single-stage compression/second-stage compression
制冷机 Refrigerator	全封闭法国泰康压缩机或半封闭式博世压缩机 Hermetically sealed French Tecumseh compression or semi-hermetic body compression
冷凝方式 Condensation method	风冷 Air cooled

HD-E702

可程式恒温恒湿试验箱(烤漆款)

Constant Temperature and Humidity Chamber

本试验箱用于试验各种材料耐热、耐寒、耐干、耐湿性能，适合电子、电器、通讯、仪表、车辆、塑胶制品、金属、食品、化学、建材、医疗、航天等制品检测质量之用。

This series is used for heat resistance, cold resistance, dry resistance and moisture resistance of various materials. It is suitable for testing the quality of electronic, electrical appliance, communication, instrument, vehicle, plastic products, metal, food, chemical, building materials, medical, aerospace and other products.



应用领域

步入式恒温恒湿试验室主要由控制面板、配电盘、保湿库板送风机、加热器、加湿器、冷冻机组合而成，可提供业界大型零件、半成品、成品、温湿度环境测试，如：电脑终端机、汽车零件。

Walk-In Temperature and Humidity Testing Room is combined by control panel, switchboard, moistening library board fan, heater, humidifier, and refrigerating system. Machine simulate the temperature and humidity environment for testing to large automotive parts, semi-finished products, finished products, such as computer, automotive parts.



试样限制 Limitation for Sample

本试验设备禁止忌燃、忌爆、易挥发性物质试样的试验、储存腐蚀性物质试样的试验、储存生物的试验、储存强电磁发射源试样的试验。

Machine forbidden to test sample like flammable, explosive and volatile materials. Machine forbidden to storage corrosive substance samples, biological substances and strong electromagnetic emission source samples.

温度系列

HD-E705 步入式恒温恒湿试验室

Walk-In Temperature and Humidity Testing Room

本产品适用于工业产品进行温热试验、高温试验、低温试验以及高低温交变试验，具有极限温度（温度）范围广、实际温（湿）度精度高的特点，步入式试验室工作室容积大，可供多种元器件、整机做温湿度试验。



主要技术参数 Technical Parameters

定制尺寸 Customized Size	4m ² ~100m ² (定制型 Customized)
温度范围 Temp. Range	0°C~10°C~20°C~40°C~70°C~+150°C
湿度范围 Temp. Range	20%~98%RH
降温速率 Cooling Rate	平均1°C/min, 线性降温速率及快速降温速率可定制 1°C/min in average, linear and fast cooling rate can be customized
升温速率 Heating Rate	平均3°C/min, 线性升温速率及快速升温速率可定制 3°C/min in average, linear and fast heating rate can be customized
温度均匀度、偏差 Temp. Uniformity & Deviation	均匀度: <2°C; 偏差: <±2°C Uniformity: <2°C; Deviation: <±2°C
湿度均匀度、偏差 Humid. Uniformity & Deviation	均匀度: <3%RH; 偏差: <±2%RH Uniformity: <3%RH; Deviation: <±2%RH

温度系列

HD-E703

冷热冲击试验箱(三箱式)

Thermal Shock Test Chamber(three-box type)

本产品是用来测试材料结构或复合材料在瞬间下经极高温及极低温的连续环境下所能忍受的程度，以最短时间内试验其热胀冷缩所引起的化学变化或物理伤害。适用的对象包括金属、塑料、橡胶、电子……等材料，可作为其产品改进的依据或参考。



主要技术参数 Technical Parameters

型号 Model	HD-E703-50/100/200/300
冲击范围 Shock range	-40℃, -55℃, -65℃~+150℃
储冷时间 Pre-cool time	RT~75℃ <60min
储热时间 Pre-heat time	RT~170℃ <35min
温度偏差 Temp. deviation	±1℃
温度均匀度 Temp. Uniformity	<2.5℃
冲击温度范围 Shock Temp. range	高温：-60℃~150℃；低温：-10~65℃；常温：室内温度；High Temp.: -60℃~150℃; Low Temp.: -10~65℃; Room Temp.
测试区温度恢复时间 Temp. Recovery time	3~5分钟; 3~5 minute
蓄热区升温时间 Pre-Heat Temp. range	常温~170℃约30分钟; RT~170℃ @ 30 minutes
蓄冷区降温时间 Pre-Cool Temp. range	常温~70℃约60分钟; RT~70℃ @ 60 minutes

温度系列

HD-E703

冷热冲击试验箱(两箱式)

Thermal Shock Test Chamber(two-box type)

本试验机分为两箱式与三箱式。

两箱设备区分为：高温区、低温区二部分。测试产品置于提篮中，冲击时提篮将测试产品移进高温区或低温区进行冲击，测试产品为动态式。

三箱设备区分为：高温区、低温区、测试区三部分。测试产品置于测试区，冲击时高温区或低温区的温度冲入测试区进行冲击，测试产品为静态式。



The machine is divided into two-box type and three-box type. Two box type is divided into two parts, including high-temp, cold-and-low-temp area. The test product is placed in the basket, and the basket will move the test product into the high temperature area or low temperature area to obtain the impact. The test product is dynamic. The three-box type is divided into three parts, including high-temp, cold-and-low-temp area and test area. The test product is placed in the test area, and the temperature of the high or low temperature area switched into the test area for impact. The test product is static.

主要技术参数 Technical Parameters

型号 Model	HD-E703-50/100/200/300
冲击范围 Shock range	-40℃, -55℃, -65℃~+150℃
储冷时间 Pre-cool time	RT~75℃ <60min
储热时间 Pre-heat time	RT~170℃ <35min
温度偏差 Temp. deviation	±1℃
温度均匀度 Temp. Uniformity	<2.5℃
冲击时间 Shock time	<10s
冲击温度范围 Shock Temp. range	高温：-60℃~150℃；低温：-10~65℃；High Temp.: -60℃~150℃; Low Temp.: -10~65℃
测试区温度恢复时间 Temp. Recovery time	3~5分钟; 3~5 minute
蓄热区升温时间 Pre-Heat Temp. range	常温~170℃约30分钟; RT~170℃ @ 30 minutes
蓄冷区降温时间 Pre-Cool Temp. range	常温~70℃约60分钟; RT~70℃ @ 60 minutes

温度系列

HD-E708 快速温度变化试验箱

Rapid-Rate Thermal Cycle Chamber



本产品主要用于考核产品热机械性能引起的失效。温度变化率一般小于20°C/min，实现以最快的速度真实再现所测样件应用环境条件。

一般应用于光电器件、互连电路、组件单元及电子设备的筛选试验和失效模式评估，是发现产品设计缺陷和工艺问题的有效方法。

The machine is mainly used to evaluate the failure caused by the thermal and mechanical properties of products. Temperature change rate is generally less than 20°C/min to achieve the fastest true reproduction of the sample application environment conditions. It is generally used for screening test and failure mode evaluation of optoelectronic components, interconnect circuits, component units and electronic equipment. It is an effective method to find product design defects and process problems.

主要技术参数 Technical Parameters

温度范围 Temp. range	-20°C~+40°C; -20°C~+150°C
温度控制精度 accuracy of temp. control	0.01°C
温度均匀度 Temp. uniformity	<2.0°C
温度偏差 Temp. deviation	±0.5°C~±0.2°C (空载 without loading)
升温速率 Heating rate	1°C/分钟~20°C/分钟, 可定制 1°C/min~20°C/min can be customized
降温速率 Cooling rate	1°C/分钟~20°C/分钟, 可定制 1°C/min~20°C/min can be customized
湿度范围 Humid. range	20%~98%RH
湿度控制精度 Accuracy of humidity control	0.1%RH
湿度均匀度 Humidity uniformity	±3%RH (空载 without loading)

温度系列

HD-E714 高空低气压试验箱

Altitude Test Chamber



本产品用于模拟不同海拔环境下的测试环境，这对于压力和真空条件更为恶劣的国防和航天应用尤为重要。应用领域：包括航空、航天、通信、电子、电器等。试验目的：保证产品或材料在不同高度可能遇到的最大质量可靠性和安全性。

This machine is used to simulate test environments of different altitudes. It is especially important for defense and aerospace applications where pressure and vacuum conditions are worse, such as aviation, aerospace, communications, electronics, and electrical appliances. The test objective is to ensure the maximum possible quality and reliability of the product or material at different heights.

主要技术参数 Technical Parameters

温度范围 Temp. range	-70°C~+150°C
温度波动度/均匀度 Temp. fluctuation & uniformity	波动度 Fluctuation: ±0.5°C; 均匀度 Uniformity: ±2°C
环境湿度 Environmental humid.	<95%RH
冷却速度 Cooling rate	平均 ≥ 3°C/min. (静态负载 15kg, +65°C~55°C 时) 1°C/min in average [Static load 15kg, Temp. range +65°C~55°C]
加热速度 Heating rate	平均 1°C/min (静态负载, +65°C~55°C 时) 1°C/min in average [Temp. range +65°C~55°C]
湿度范围 Humid. range	20%~98%RH
湿度波动度/均匀度 Humidity fluctuation & uniformity	波动度 Fluctuation: ±2.5%; 均匀度 Uniformity: ±3%
压力范围/精度 Pressure range & accuracy	范围 Range: 50.5kPa~101.5kPa; 精度 Accuracy: ±5%
压力控制方法 Temp. tolerance	方法 A: 1. 加热/冷却至预定温度; 2. 抽真空至低压; 方法 B: 1. 抽真空至低压; 2. 加热/冷却至预定温度; 方法 C: 加热/冷却至预定温度同时抽真空至低压 Method A: 1. Heating/Cooling to set Temperature 2. Vacuum to Low Pressure Method B: 1. Vacuum To Low Pressure 2. Heating/Cooling To Set Temperature Method Method C: Heating/Cooling to set Temperature And Vacuum to Low Pressure
冷却方式 Cooling method	水冷 Water cooled
加热方式 Heating method	电气 Electrical
压缩机 Compressor	德国博世半封闭制冷系统 German Bosch semi-sealed refrigeration system

温度系列

HD-E809

温湿度振动综合试验箱

Vibration Test System with Temp. & Humidity Chamber

本产品主要是试验箱和振动试验系统的综合。试验时将温度、湿度、振动（高温或低温）、正弦振动或随机振动以及电应力按规定的周期综合在同一气候试验箱中施加到样品上进行温度、湿度、振动的综合试验。检验试样的各性能项指标综合环境可靠性试验、可靠性增长试验、可靠性鉴定试验（RQC）、产品可靠性验收（PRAT）、例行试验、应力筛选试验（ESS）等。

This machine is mainly the synthesis of the test chamber and vibration test system. During test, temperature, humidity, vibration (high or low temperature), sinusoidal vibration or random vibration and electrical stress are applied to the sample in the same climate test chamber for comprehensive test of temperature and humidity vibration according to the specified period. To test the comprehensive environmental reliability test, reliability growth test, reliability identification test (RQC), product reliability acceptance test (PRAT), routine test, stress screening test (ESS) and others.



主要技术参数 Technical Parameters

温度范围 Temp. Range	0°C~20°C, 40°C~70~+150°C
温度波动度/均匀度 Temp. fluctuation & Uniformity	波动度<±0.5°C; 均匀度:<2°C (空载) Fluctuation:<±0.5°C; Uniformity:<2°C (Without loading)
温度偏差 Temp. Deviation	<±2°C
湿度偏差 Humidity Deviation	<±3%
湿度范围 Humidity Range	20%~98%RH
湿度波动度/均匀度 Humidity fluctuation & Uniformity	波动度Fluctuation: ±2.5%; 均匀度Uniformity: ±3%
升温速率 Heating Rate	3~5°C/min, 可定制Can be customized
降温速率 Cooling Rate	0.7~1.2°C/min, 可定制Can be customized
制冷方式 Cooling Method	单级压缩, 双级式双压缩 Single-stage Compression; Laminated two-stage compression
冷凝方式 Condensation Method	风冷或水冷 Air-cooled or Water-cooled
运作方式 Running Method	恒定运转, 程序运转 Constant Operation/Programmable Operation
程序记忆容量 Capacity of Program Memory	120组可编程序, 每个程序最大100段 120 groups of programmable programs, each with a maximum of 100 segments
保护功能 Protection Function	具有自诊断和自保护功能, 能够在发生故障时自动报警和停机 Equipped with self-diagnosis and self-protection function, which can automatically alarm and stop in case of failure.

*内销大小可非标客户试样定制

主要技术参数 Technical Parameters

额定正弦激振力 Rated sinusoidal excitation force	10kN, 20kN, 可定制 Can be customized
额定随机激振力 Rated random excitation force	10kN, 20kN, 可定制 Can be customized
冲击激振力 Impact excitation force	20kN, 50kN, 可定制 Can be customized
振动方向 Vibration direction	垂直、水平垂直 Vertical / Horizontal and vertical
最大加速度 Max. acceleration	981 m/s ²
额定速度 Rated speed	2m/s
频率范围 Frequency range	5Hz~3000Hz, 5000Hz
工作振幅 Working vibration	0.5/mm
最大速度 Max speed	2 m/s
隔振频率 Frequency of vibration isolator	2.5Hz
额定载荷 Rated load	0~300kg, 可定制 Can be customized
工作台面直径 Diameter of table surface	φ150 mm, φ240 mm, 可定制 Can be customized
垂直扩展平台 Vertical extended platform	300*300mm, 400*400mm等, 可定制 Can be customized
水平扩展平台 Horizontal extended platform	300*300mm, 400*400mm等, 可定制 Can be customized
数字式功率放大器 Digital power amplifier	输出功率: 10kW, 输出电压: 100V, 输出电流: 100A, 偶波失真<1% Power output: 10kW, voltage output: 100V, current output: 100A, harmonic distortion<1%

温度系列

电池防爆试验箱

Battery Explosion Proof Test Chamber



本产品主要用于电池进行过充过放、充放电时，将电池置于防爆箱中。为保护操作人员及仪器，本机测试箱体可根据测试需求进行定制。

This product is mainly used for overcharge and over-discharge of the battery. In the charge and discharge test, the battery is placed in an explosion-proof box, and then in the external charge and discharge test, the machine can control the operator and other instruments. The machine can be customized according to test requirements.

主要技术参数 Technical Parameters

内箱尺寸 Internal dimension	500×500×500mm (W×D×H)
外形尺寸 External dimension	680×750×1375mm (W×D×H)
内箱材质 Internal chamber material	不锈钢板，厚度1.2mm并贴有铁氟龙
外箱材质 External chamber material	厚1.5mm冷轧钢板烤漆处理
观察窗 Observation window	250×250mm两层钢化玻璃，透明视窗装有不锈钢网
排烟口 Smoke outlet	直径为100mm，位于箱体后侧 Diameter 100 mm located at the back of chamber
泄压口 Pressure outlet	开口200×200mm，位于箱体后侧，当试样爆炸时，泄压口弹开泄压力卸掉 Outlet Diameter 200×200mm located at the back of the machine. When the sample explodes, the pressure outlet open and pressure released.
测试孔 Test hole	单门左开，门侧面装有防爆链
测试箱体 Test room	2个 With 2 zones
设备重量 Weight	65kg
电源 Power	AC220V, 200W

温度系列

电池高空低压模拟试验箱

High Altitude Low Pressure Battery Simulation Test Chamber

本产品针对UL、EN、IEC等标准试验要求而设计，在短时间内达到样品的低气压存放状态，可自动控制试验周期，全程监控箱内气压变化，实现试验的自动终止。

The product's designed based on UL, EN, IEC standard test requirement, can make the sample of a low pressure storage state in a short time and automatically control the test period. And then it can automatically monitor the air pressure change in the whole process and terminate the experiment automatically.

模拟电池和电池组在压力等于或低于11.6kPa和环境温度为(20±5)°C条件下存放6小时，如果电池无泄漏、无排气、无解体、无破裂、无起火，并且每个试样在试验后的开路电压不小于其在进行模拟实验前的电压的90%，即为合格。

The machine simulates batteries and battery packs being stored for six hours at a pressure of 11.6 kPa or less and at an ambient temperature of (20±5) °C. Batteries and battery packs are qualified if they have the following conditions: no leakage, no exhaust, no disintegration, no rupture, no fire and the open circuit voltage of each sample after the test is not less than 90% of the voltage before the simulation test.



主要技术参数 Technical Parameters

内箱尺寸 Internal dimension	400×400×400mm (L×D×H)
外形尺寸 External dimension	650×650×1450mm (L×D×H)
内箱材质 Internal chamber material	不锈钢板，厚度3mm
外箱材质 External chamber material	厚1.5mm冷轧钢板烤漆处理
观察窗 Observation window	250×250mm两层钢化玻璃，透明视窗装有不锈钢网
压力范围 Pressure range	0.5~100kPa, 常用测试气压11.6kPa(0.5~100kpa: Common test pressure is 11.6kPa)
计时器 Timer	0.99H99内自由设置，H/M/S单位可切换 Set arbitrarily within 0.99H99. H/M/S units can be switched
压力波动 Pressure fluctuations	< 5%
置物盘 Sample plate	2个; 2pcs
设备重量 Weight	120kg
电源 Power	AC220V, 1kW

IP系列

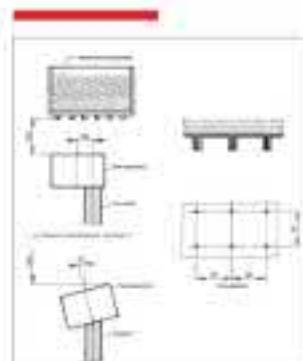
HD-E710-1

滴水试验箱IPX1&X2

Water Drip Test Chamber (IP Grade:IPX1 ,IPX2)

本产品适用于在运输、贮存或使用期间可能遭受自然降雨、淋雨或冷凝水的电工电子产品的试验方法，考核电工电子产品外壳和遮盖物等密封件在滴试验后能否保证设备和元件良好的试验。

This product is suitable for simulate the natural rainfall, water leakage or condensation test for electrical and electronic products, to check whether the enclosure and covers of samples are in good condition.



DESIGN DRAWING
测试示意图



主要技术参数 Technical Parameters

内箱尺寸 Internal dimension	800*800*800mm(WxDxH)	1000*1000*1000mm(WxDxH)
外箱尺寸 External dimension	1300*1000*1700mm(WxDxH)	1500*1200*1800mm(WxDxH)
转盘直径 Sample turntable	300mm or 500mm	500mm or 800mm
转盘转速 Rotation speed	3±1r/min, 高度可调 Height Can be Adjusted	
滴水速度 Dripping speed	IPX1: 1±0.5mm/min, IPX2: 3±1mm/min, 可调 Can be adjusted	
滴水盘面积 Dripping area	600*600mm	800*800mm
滴水孔距离样品 Distance from drip box to specimen surface	200mm	
滴水孔直径 Water Hole diameter	0.4mm	
滴水孔间距 Distance between water drop holes	20mm	
测试周期 Test time setting	1~999,999min, 可调 Can be adjusted	
IPX2转盘角度 Turntable angle	可倾斜15° : Can be tilted 15 degrees	
水循环系统 Water cycling system	内置水箱回收循环利用 Built-in water tank for recycling	

IP系列

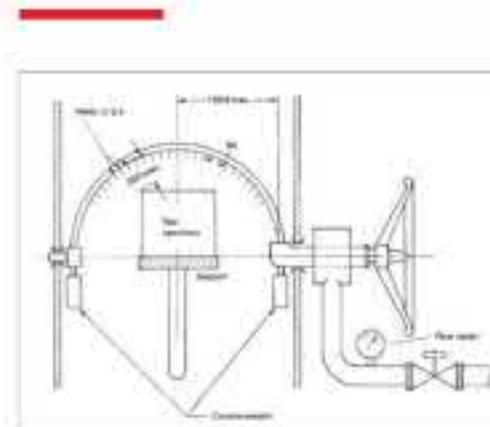
HD-E710-2

淋雨试验箱IPX3&X4

Water Spray Test Chamber (IP Grade:IPX3 ,IPX4)

本产品适用于在运输、贮存或使用期间可能遭受自然降雨、淋雨或冷凝水的电工电子产品的试验方法，考核电工电子产品外壳和遮盖物等密封件在淋雨试验后能否保证设备和元件良好的试验。

This product is suitable for simulate the water dripping, splashing and spraying test for electrical and electronic products, to check whether the enclosure and covers of samples are in good condition.



DESIGN DRAWING
测试示意图



主要技术参数 Technical Parameters

观察窗 Observation window	防水钢化玻璃 Waterproof Toughened Glass
挂管角度 Oscillating angle	40° , 90° , 120° , 360°
挂管速度 Oscillating speed	IPX3: 一个周期2°120°, 约4秒; IPX4: 一个周期2°360°, 约12秒; IPX4K: 约60° / s, 可定制 IPX3: 2°120° for 4s; IPX4: 2°360° for 12s; IPX4K for 60° / s, can be adjusted
喷嘴直径 Spray nozzle diameter	0.4mm(IPX3, IPX4), 0.8mm(IPX4K)
喷水孔间距 Distance between two nozzles	50mm
转盘直径 Turntable diameter	200mm; 300mm; 400mm
转盘速度 Turntable rotation speed	1-5r/min
喷水流量 Water spray rate	每个喷嘴: 0.07L/min±5% (IPX3&IPX4) , 0.6L/min±5% (IPX4K) Each nozzle: 0.07L/min±5% (IPX3&IPX4) , 0.6L/min±5% (IPX4K)
测试周期 Test time setting	1~999,999min, Adjustable
水循环系统 Water cycling system	内置水箱回收循环利用 Built-in water tank for recycling

IP系列

HD-E710-3

淋雨试验箱IPX5&X6

Water Shower Test Chamber
(IP Grade: IPX5&X6&6K)

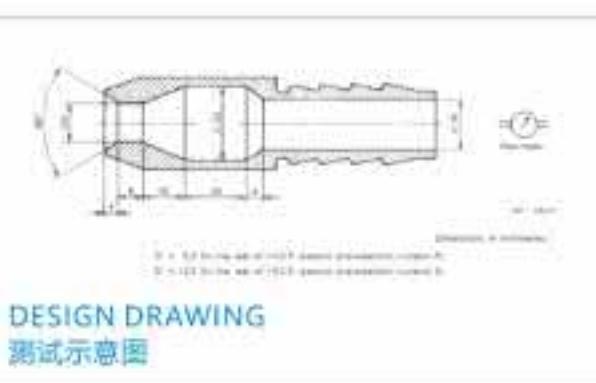
本产品适用于在运输、贮存或使用期间可能遭受大暴雨、风吹大雨、洒水系统、车轮溅水、冲水或猛烈海浪的电工电子产品试验方法。考核电工电子产品外壳和连接物等密封件在冲水试验后能否保证设备和元件良好的试验。

This product is suitable for simulate the wind and heavy rain, water splashing, blowing, or violent wave test for electrical and electronic products, to check whether the enclosure and covers of sample are in good condition.



主要技术参数 Technical Parameters

观察窗 Observation window	防水钢化玻璃 Waterproof Tempered Glass		
IP等级 IP code	IPX5	IPX6	IPX6K
喷水孔内径 Internal diameter of nozzle	6.3mm	12.5mm	6.2mm
喷水流速 Rate of water flow	12.5L/min±5%	100L/min±5%	75L/min±5%
水压力 Water pressure	30kPa	100kPa	1000kPa
测试周期 Test time setting	0~999h59min		
流量计 Flowmeter	转子流量计/电磁式流量计(可选配) Rotor flowmeter/Electromagnetic flowmeter(optional)		
控制器 Controller	PLC触摸屏控制器 PLC touch screen		
喷水孔距离样品 Distance from nozzle to enclosure surface	2.5m~3m		
水循环系统 Water cycling system	内置水箱并设置循环利用 Built-in chamber bottom for recycling		
转盘直径 Turntable diameter	200mm	300mm	400mm
转盘速度 Rotation speed	1~5r/min		



DESIGN DRAWING
测试示意图

IP系列

HD-E710-4 加压浸水试验箱IPX7&X8

Water Immersion Test Chamber(IP Grade: IPX7, IPX8)



本产品适用于在运输、贮存或使用期间可能遭受浸水的电工电子产品的试验方法。考核电工电子产品外壳和遮蔽物等密封件在浸水试验后能否保证设备和元件良好的试验。

The product is suitable for simulate the water immersion test for electrical and electronic products, to check whether the enclosures and covers of samples are in good condition.

IP系列

HD-E710-5 高温高压喷射试验箱IPX9K

High Temperature & Pressure Water Test Chamber

本产品适用于在运输、贮存或使用期间可能遭受高温高压、蒸气喷射清洗的电工电子产品的试验方法，考核电工电子产品外壳和遮蔽物等密封件在高温高压喷水试验后能否保证设备和元件良好的试验。

This product is suitable for simulate the high temperature and high pressure spraying, steam jet cleaning test for electrical and electronic products, to check whether the enclosures and covers of samples are in good condition.



SPRAY DIRECTION &
TEST DISTANCE

喷水顺序图和测试距离

主要技术参数 Technical Parameters

箱体材质 Chamber material	304不锈钢, 厚度3mm; Thickness 304, Thickness 3mm
水压 Water pressure	0~0.5MPa, 模拟水下50米; 0-0.5MPa, simulate 50 meters underwater
调试周期 Test time setting	0~99min, 99sec
试样提升装置 Sample lifting device	手提式不锈钢吊篮 Portable stainless steel hanging basket
水位显示 Water level display	刻度加水位管 Water pipe with scale
控制器 Controller	数显压力表和计时器 Digital pressure gauge & timer

主要技术参数 Technical Parameters

水温 Spray water temperature	80±5°C
水压 Spray water pressure	80~100bar (8000~10000kPa)
喷水孔数 Spray nozzle no	4个; 4pcs
水流量 Rate of water flow	14~16L/min
喷水距离 Spray water distance	100~150mm, 高压热喷射: High pressure thermal jet
喷水角度和时间 Spray water angle	0°, 30°, 60°, 90°, 每个角度喷水30秒; Each angle spray for 30 seconds
转盘速度 Sample rotation speed	5r/min
水循环系统 Water cycling system	内置水箱自收循环利用: Built-in chamber bottom for recycling
控制器 Controller	PLC触摸屏控制器: PLC touch screen
水泵 Water Pump	意大利进口高温高压柱塞泵: Italy high temperature and pressure plunger pump

IP系列

HD-E710-6

汽车淋雨试验室

Vehicle Rain Test Room



主要技术参数 Technical Parameters

本产品主要用于检测汽车的密封性，通过淋雨试验室，把淋雨检测的条件与外面自然状态相类似，来确认火车、飞机、汽车、电力设备产品及户外运行设备的防止雨水渗透的能力和受到淋雨时或之前的防水性能。

淋雨区：采用喷射方式并达到一定的淋雨强度喷射车窗表面、车底路面，同时设有污水处理器装置，将循环水进行过滤处理，去除泥沙及杂质，使其达到循环使用雨水的标准。

The chamber is used to test the water proof performance of tires, bicycles, automobiles, electrical power equipment and outdoor working equipment under high temperature and pressure water spraying environment.
Some water test method is spraying with high temperature and high pressure to the window and the road. The chamber had included sewage treatment system for water recycling.

设备功能 Equipment function

用于汽车、农用车等交通工具淋雨实验。
Used for rain test of vehicles, agricultural vehicles and other vehicles.

淋雨强度 Rain intensity

两侧及顶部为平均 $20 \pm 2 \text{ mm/min}$ ；On both sides and top is an average of $20 \pm 2 \text{ mm/min}$.

电源 Power

AC 三相 $380V \pm 5\%$, 50Hz Three phase $380V \pm 5\%$, 50Hz

喷嘴喷射压力 Nozzle spray pressure

$79-150 \text{kPa} \pm 10 \text{ kPa}$

压力表 Pressure gauge

在水泵的出口处安装压力表，压力： $0-0.5 \text{ MPa}$ （压力采用变频器控制）
Install a pressure gauge of the outlet of the water pump, pressure: $0-0.5 \text{ MPa}$ [pressure is controlled by frequency converter]

流量计 Flowmeter

在水泵的出口调节阀后安装流量计，流量： $1-23 \text{ m}^3/\text{h}$
Install a flow meter after the outlet regulating valve of the water pump, flow rate: $1-23 \text{ m}^3/\text{h}$

框架外尺寸 Frame size

$8000 \times 4000 \times 3800 \text{ mm}$ (L×W×H)。可定制: can be customized

内框尺寸 Inner frame size

$8000 \times 3500 \times 3500 \text{ mm}$ (L×W×H)。可定制: can be customized

进出门 Get in and out

采用聚乙烯皮帘门，门洞尺寸 $2800 \times 3200 \text{ mm}$ (W×H)。可定制:
Use polyethylene curtain door, door size $2800 \times 3200 \text{ mm}$ (W×H); can be customized

IP系列

HD-E706

砂尘试验箱IP5X&6X

Dust Test Chamber IP5X&6X

本产品主要适用于检验电工电子产品外壳的防尘性能，亦可检测砂尘摄入对产品的影响。

The product is suitable for simulate the dust ingress test for electrical and electronic products, to check whether the enclosure and cover of samples are in good condition.



INTERNAL CHAMBER
砂尘内箱图



主要技术参数 Technical Parameters

内箱尺寸 (W*D*H) Internal dimension	600*600*600mm	800*800*800mm	1000*1000*1000mm
外箱尺寸 (W*D*H) External dimension	1100*900*1650mm	1300*1100*1800mm	1500*1300*2000mm
控制器 Controller	采用可编程控制器(具备下述多种控制功能): Adopt PLC controller with various control functions as below: a. 吹尘时间 (停、吹) m/s, 可调 b. 循环周期: 任意可调 c. 预设试验时间 0s~99m99s, 任意可调 d. 通电: 新一通一断	A. Blowing dust time(stop/blow) M/S, adjustable B. Cycle time, adjustable C. Pre-set test time 0S~99M99S, adjustable D. Power on/off-on/off	
测试时间 Testing time	0.1s~999s, 可调节, Adjustable		
灰尘浓度 Dust concentration	浓度为2kg/m³~4kg/m³, 测试20次后更换 Concentration is 2kg/m³~4kg/m³, should be replaced every 20 times		
测试尘类型 Dust type	滑石粉 Talcum Powder		
真空系统 Vacuum system	压力计, 空气过滤器, 气压调节器, 真空泵, 连接管 Air filter, air regulator, air pressure regulator, connecting pipe		
真空泵 Vacuum pump	0.03kPa		
气源压力 Air source pressure	0.5~0.8MPa		
气流速度 Airspeed	<2m/s		
承重 Loading capacity	200kg		

IP系列

HD-E706

砂尘试验室IP5X&6X

Dust Test Chamber IP5X&6X

本产品为人工模拟砂尘环境，来评价试样暴露于干砂或充满灰尘的大气的作用下的抵抗能力及能否储存和运行。主要是由工作室体、吹尘循环风道、真空排气系统、粉尘回收装置、电气控制系统、安全保护系统等部件组成。

The product is simulated sand and dust environment artificially, to evaluate the resistance of experiment exposed to dry sand or dusty atmosphere and whether it can be stored and operated. It mainly composed of working room, dust circulation duct, vacuum pumping system, dust recovery device, electrical control system, safety protection system and other components.



*可根据客户特殊要求设计、定制

老化系列

HD-E801

臭氧老化试验箱

Ozone Aging Test Chamber



臭氧老化试验箱为电线电缆、橡胶及聚合物等产品测试提供精准的臭氧浓度环境。此设备广泛应用于加速老化研究、质量控制和质量保证、研发中心抗老化试验机配方实验等。

Ozone aging test chamber provides an accurate ozone concentration environment for testing wires, cables, rubber and polymers. This equipment is widely used in accelerated aging research, quality control and quality assurance, anti-aging testing in R&D center etc.

老化系列

HD-E808

盐雾试验箱

Salt Spray Chamber



盐雾试验箱针对各种材质的表面处理，包含涂料、电镀、无机及有机镀膜，照相处理防锈油等防腐处理后，测试其制品的耐蚀性。

The machine is used for the surface treatment of various materials, including paint, electroplating, inorganic and organic coating, photo processing, anti-rust oil and so on; after these anti-corrosion treatment to test the corrosion resistance of their products.

主要技术参数 Technical Parameters

温度范围 Temp. range	RT+10℃~80℃(60℃以上需拆下臭氧传感器，建议使用温度40℃)
温度波动度 Temp. fluctuation	±0.5℃
温度偏差 Temp. deviation	±2℃
湿度范围 Humid. range	30%~85%RH(60℃以上需拆下臭氧传感器，建议使用温度40℃)
臭氧浓度 Ozone concentration	50~1000pphm, 可调, Adjustable
臭氧控制精度 Ozone control accuracy	±5%FS
试样架 Sample holder	2块可拆卸试样架, 304不锈钢; 2pc removable sample tray with stainless steel 304 material
控制器 Controller	LCD 可程式控制器, 触摸操作: LCD programmable controller, touch screen
臭氧发生器 Ozone generator	无声高压放电臭氧发生器: High pressure silent discharge type

主要技术参数 Technical Parameters

型号 Model	HD-E808-60/90/120/160
控制器 Controller	触摸屏, 按键式: PLC controller, Touch-type controller
温度范围 Temp. range	试验室: 本温+5℃~55℃; 饱和锅: 本温+5℃~63℃ Inner chamber: RT+5℃~55℃; saturated pot: RT+5℃~63℃
温度偏差 Temp. tolerance	平均 > 1℃ 每分钟 (当负重15kg, +85℃~55℃时) > 1℃/min in average (when the load is 15kg, +85℃~55℃)
温度波动度/均匀度 Temp. fluctuation & uniformity	波动度: ±0.5℃, 均匀度: 2℃; fluctuation ±0.5℃, uniformity: 2%
盐雾沉降量 Salt spray settlement	1.0~2.0ml/80cm ² ·h ⁻¹
喷雾方式 Spray method	连续、周期任选 (触控屏): Continuous and periodic are optional (PLC type)
测试时间 Test time	1~9999(时, 分, 秒) 可调: 1~9999(h, M, S) adjustable
温度控制 Temp. control	PID+S. S. R微电脑集成控制器: PID+S. S. R microcomputer integrated controller
温度传感器 Temp. sensor	铂金电阻 PT1000/mV; Platinum resistance PT1000/mV
加热系统 Heating system	全独立系统, 镍铬合金电加热丝式加热器 All independent system, nickel-chromium alloy electric heating heater
喷雾系统 Spray system	塔式喷雾装置加无结晶喷嘴: Tower spray device with no crystallization nozzle
箱体材料 Machine material	耐腐蚀, 抗老化, 采用进口PP&PVC硬质塑料板 Corrosion resistance, anti-aging, import PP&PVC high strength plastic board
密封 Seal	采用水密封装置, 无盐雾溢出: Adopt water seal device and no salt fog overflowing
电源电压 Power supply	AC220V ± 10% 50Hz

老化系列

HD-E704

耐黄老化试验箱

Anti-Yellowing Aging Test Chamber



本产品可做两种测试：老化与耐黄变。

老化：本机可促进加硫橡胶的劣化，以计算加热前后拉力及伸长的变化率。一般认为在70℃下测试一天，理论上相当于暴露在大气中6个月的时间。

耐黄：本机是模拟大气环境中，受阳光紫外线照射，外观变化一般认为在50℃下测试9小时，理论上相当于暴露在大气中6个月的时间。

This machine can do two kinds of testing: aging and anti-yellowing.

Aging: the machine can promote the increase of sulfur rubber deterioration, to calculate the change rate of tensile and elongation before and after heat. It is generally thought that test for one day at 70°C, in theory is equivalent to the atmosphere for 6 months.

Anti-yellowing: this machine simulates the atmosphere environment, driven by the sun ultraviolet radiation, it's generally thought that the appearance change of 50°C for 9 hours, in theory is exposed to atmosphere for 6 months.

老化系列

HD-E802

UV耐候试验箱

UV Weathering Test Chamber



本产品可模拟太阳光的紫外光谱，程序设定温度、光照及降雨等条件。此设备用于测试在光照条件下对产品造成的不同类型的损害，如变色、龟裂、剥落、强度下降、氧化等。耐光能力或单一耐候能力减弱或失效，从而广泛用于对材料耐气候性能的评价。

The machine can simulate the UV spectra of sunlight, exposure materials to alternating cycles of UV light and模擬太陽光的紫外光譜，程序設定溫度、光照及降雨等條件。此設備用於測試在光照條件下對產品造成的不同類型的損害，如變色、龜裂、剝落、強度下降、氧化等。耐光能力或單一耐候能力減弱或失效，從而廣泛應用於對材料耐氣候性能的評價。

主要技术参数 Technical Parameters

温度范围 Temp. range	常温~+200℃; Ambient~+200℃
控制方式 Control method	自动运算控制器; Automatic calculation controller
时间记忆 Time memory	0~999小时, 停电记忆型, 含蜂鸣器 0~999hours, automatic power cut-off memory, including buzzer
转盘直径 Turntable diameter	35cm
转盘速度 Turntable speed	1-3转/分钟, 可调; 1~3cycles/min, adjustable
UV光源 UV light	300W UVA灯泡; 300W UV lamp
加热方式 Heating method	热风循环; Hot air circulation
内箱材料 Internal material	304不锈钢; Stainless steel 304

主要技术参数 Technical Parameters

温度范围 Temp. range	RT+20℃~70℃
温度波动度 Temp. fluctuation	±1℃
黑板温度 Black panel temp.	50℃~70℃, 可设定 adjustable
内外箱材质 Chamber material	304不锈钢; Stainless Steel 304
控制系统 Control system	LCD可程式控制器, 光照, 冷凝及淋雨系统循环可调 LCD Touch Screen programmable controller, illumination, condensation and water spray test cycles are programmable
UV灯管 UV lamp	8支, 1600 小时运行寿命; 8pcs. 1600 hours lifetime
紫外线波长 Ultraviolet wavelength	290nm~400nm(峰值波长313nm, 340nm, 可调; peak wavelength 313nm, 340nm, adjustable)
有效辐射区域 Effective irradiation area	900x 210mm
辐照度计 Irradiance meter	国产灯管 Domestic Brand Lamp: 0.3~0.7w/m ² , 0.2~0.6w/m ² , 可调; Adjustable 进口灯管 Imported Brand Lamp(ATLAS): 0.4~0.9w/m ² , 0.2~1.0w/m ² , 可调; Adjustable
试样与灯管距离 Distance between sample and lamp	50±2mm
试样尺寸 (标准内箱) Sample dimension (standard chamber)	75×290mm (12块) 或75×150mm (24块), 最大厚度5mm 75×290mm(12pcs) or 75×150mm(24pcs), Max. thickness 5mm
试样尺寸 (方型内箱) Sample dimension (flat type chamber)	不规则试样; Irregular test sample

老化系列

HD-E711

氙灯耐候试验箱

Xenon Weathering Test Chamber

本产品采用氙气灯，可模拟全太阳光谱且存在于不同环境下的破坏性光波。提供相应的环境模拟和加速试验，专门用于科研、产品开发和产品质量管控等等。

This machine adopts a Xenon arc lamp, which can simulate the full solar spectrum and the destructive light waves that exist in various environments. Provide corresponding environmental simulation and accelerated testing, specifically used in scientific research, product development and product quality control, etc.



TURNABLE SAMPLE TRAY
转盘式试样架



主要技术参数 Technical Parameters

光源	水冷型全太阳光谱长弧氙灯	风冷长弧氙灯
箱内湿度	光循环30%-90%RH, 雨循环30%-95%RH(双温控时为50%-90%RH)	
湿度均匀度	<±5%RH	±5%RH
箱内温度	20°C~80°C, 可设定(双温控时, 38°C或40°C±3°C)	
黑板温度	30°C~95°C, 可设定(双温控时, 65°C或63°C±3°C)	
温度均匀度	<±3°C	
滤光片	耐玻璃盖光片(标配), 日光滤光片, 蓝紫紫外线滤光片	
辐照强度	290-800nm波段550-1120W/m ²	
控制系统	LCD可程式控制箱, 自动显示辐照度, 可设定100组程序, 每个程序含99个循环	
光照时间	1~999 Hours, Adjustable	
淋雨系统	喷水时间999分钟可调, 间断喷水时间1~240分钟可调, 可定期循环设定	
试样架	转盘式试样架, 1-5r/min可调	304不锈钢试样架
试样与灯管距离	250~300mm	
氙灯功率	1支6.5kW	2.5kW*3pcs=7.5kW
氙灯寿命	1200小时	

主要技术参数 Technical Parameters

Light source	Water Cooled Xenon Lamp	Air-cooled Xenon Lamp
Humid. Range	30%-90%RH(Light cycle) 30%-95%RH(Dark cycle)	
Humid. Uniformity	<±5%RH	±5%RH
Temp. Range	20°C~80°C, Adjustable(double temp. control, 38°C or 40°C±3°C)	
Black panel temp.	30°C~95°C, Adjustable(double temp. control, 65°C or 63°C±3°C)	
Temp. Uniformity	<±2°C	
Filter	Window filter, Daylight filter, Evident UV filter	
Irradiance strength	550-1120W/m ² at290-800nm	
Control system	LCD programmable controller, automatic display of irradiance, can be setup 100 groups of programs, each program contains 99 cycles	
Rain system	1~999 Hours, Adjustable	
Water spray system	Water spray time 999 minutes, adjustable, interval spray time 1~240 minutes, adjustable, test cycle can be set	
Sample holder	Turntable sample rack, 1-5r/min	Stainless Steel 304
Distance from Sample holder to lamp	250~300mm	
Xenon lamp power	6.5kW*1pc	2.5kW*3pcs=7.5kW
Xenon lamp lifetime	1200 hours	

VOC系列

HD-F801-3

甲醛气候箱

Formaldehyde Test Chamber

本产品适用于各种人造板、复合木地板以及地毯、地砖衬垫、地胶粘剂等室内装修材料甲醛释放量的测定。可用于其它挥发性有害气体的检测。可最大程度的模拟室内气候环境，检测结果更贴近现实环境，因而真实、可靠。

This machine is suitable for the determination of formaldehyde emission of various man-made panel, composite wood floor, carpets, carpet underlays, carpet adhesives and other indoor decoration materials, and can be used for the detection of other volatile and harmful gases. Can maximum simulate the indoor climate environment, so the result is true and reliable.



主要技术参数 Technical Parameters

箱内容积/Inner box volume	(1.0±0.02) m ³
测试舱内温度范围 Temp. range	10~40℃, 精度: ±0.5℃, 分辨率0.1℃, 连续可调 10~40℃, accuracy: ±0.5℃ Resolution: 0.1℃, continuous and adjustable
箱内相对湿度范围 Humid. range	50±3%RH, 分辨率: 0.1%, 连续可调 50±3%RH, Resolution: 0.1%, continuous and adjustable
密封性 Tightness	当有1000pa的过压时, 气体泄漏少于1x10 ⁻³ m ³ /min, 进出口气体流量差<1% Leakage Rate is Less Than 1*10 ⁻³ m ³ /min when pressure up to 1000pa, enter and outer air flow < 1%
背景浓度 Background concentration	甲醛基准浓度 <0.006mg/m ³ , Formaldehyde background concentration < 0.006mg/m ³
箱内空气流速 Chamber air speed	0.1~2.0m/s, 精度: ±0.05m/s, 连续可调: 0.1~2.0m/s, Precision: ±5% continuous and adjustable
工作时间 Working time	连续工作时间不小于40天: Not less than 40 days work continuously.
空气置换率 Air replacement rate	(0.2~2) m ³ /h, 精度: ±5%, 连续可调 (0.2~2) m ³ /h precision: ±5% continuous and adjustable
气体采样器 Gas sampler	抽气范围: 0.1~2.5/min., 采样精度±5%, 配有支架 Pumping range: 0.1~2.5/min sampling accuracy: ± 5%, equip with shelf

VOC系列

HD-F801-3A

甲醛预处理环境舱

Pre-condition Formaldehyde Test Chamber

一台设备有多个环境舱, 可同时进行多个样品的预处理(环境舱的数量可以根据场地和需要定制)的人造板材甲醛VOC专用预处理环境舱。该舱广泛使用于建材、玩具、汽车内饰产品等VOC预处理过程, 特别适合人造板材的预处理过程。

An equipment has multiple environmental chambers. It is special formaldehyde VOC pre-treatment environmental chamber for artificial board, which can process pretreatment for multiple samples at the same time (the number of environmental chambers can be customized according to the site and need). This chamber is widely used in VOC pre-treatment processes for building materials, toys and automotive interior product. It's particularly suit for the processing of man-made panels.



主要技术参数 Technical Parameters

箱内温度范围 Temp. range	20~40℃, 连续可调 continuous and adjustable
温度控制精度 Temp. fluctuation	< ± 0.5℃
密封性 Tightness	在1000Pa压强下, 泄漏率少于0.5%
箱内相对湿度范围 Humid. range	40~70%RH (at 20~30℃)
湿度控制精度 Humid. fluctuation	< ± 2%
空气置换率 Air replacement rate	0.2~2.0m ³ /h, 连续可调 continuous and adjustable
空气置换率精度 Air flow speed	< ± 0.05次/h
空气流速 Air flow speed	0.1~2.0m/s, 连续可调 continuous and adjustable
额定功率 Power	3kW
背景浓度 Background concentration control	甲醛 formaldehyde <0.10mg/m ³ , TVOC <0.3mg/m ³

VOC系列

HD-F801-4
VOC释放舱

VOC Release Chamber

本产品提供一个或多个洁净的封闭空间，能够精确控制室内的温度、湿度、 VOC浓度、空气流速、气压、换气次数，模拟在特定环境下产品有害物的释放过程，从而模拟试样在特定环境中的污染程度。

The machine provides one or more clean enclosed spaces, which can accurately control the temperature, humidity, VOC concentration, air flow rate, air pressure, and the number of air changes in the environment to simulate the release process of product harmful substances in a specific environment, thereby simulating the degree of pollution in a specific environment.



主要技术参数 Technical Parameters

内箱尺寸 Inner size	1±0.02m ³
外箱尺寸 External size	1500×1800×1800mm(L×D×H)
温度调节范围 Temp. adjust range	+15°C→+60°C
湿度调节范围 Humid. adjust range	30%~80% RH
空气流速 Airflow speed	0.1m/s~1.0m/s[连续可调, continuous adjustable], ±5%
温度仪表分辨率 Temp. meter resolution	0.1°C
湿度仪表分辨率 Humid. meter resolution	0.1%RH
温度波动度 Temp. fluctuation	<0.5°C
温度均匀度 temp. uniformity	<1°C
温度偏差 temp. deviation	(-0.5°C, 0.5°C)
湿度偏差 Humid. deviation	-25RH, 35RH
流量计精度 Flow-meter accuracy	玻璃转子流量计, 精度不小于2.5级; glass rotameter, accuracy >2.5 grade
噪音 Noise	< 60dB
电源 Powersource	380V, 50Hz 单相供电 Single phase

MECHANICAL
TESTING
EQUIPMENT

材料力学检测仪器

自主研发软件

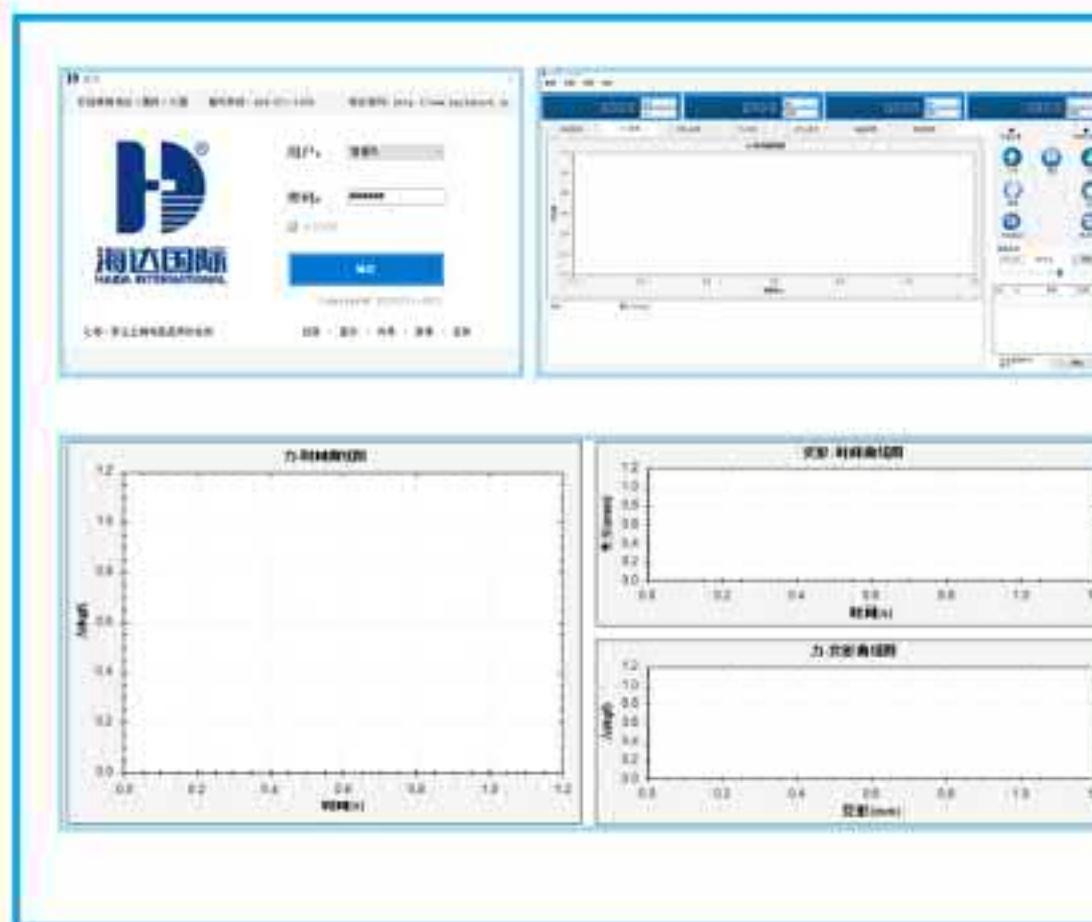
HD-Mtest

HD-Mtest

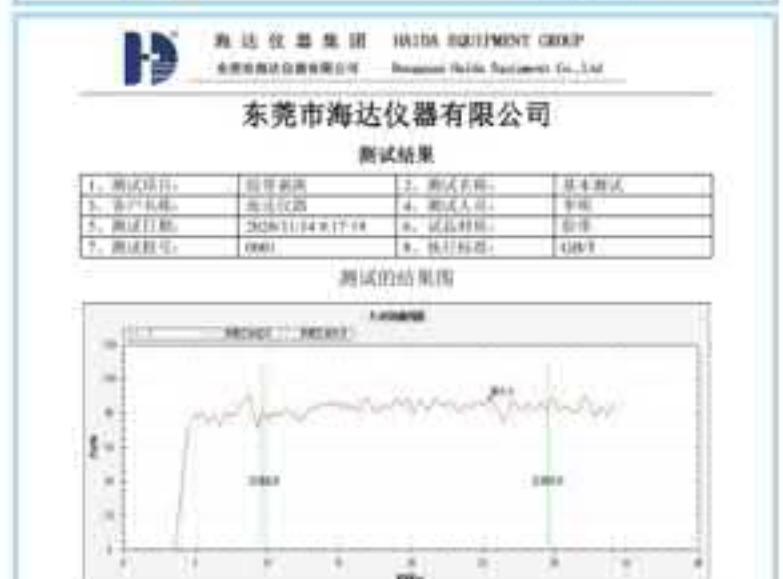
专为材料力学试验设备研发软件

CONSTANT TEMPERATURE AND HUMIDITY CHAMBER

- HD-Mtest 软件开发语言选用 C# 开发，与 Windows 系统无缝契合；
HD-Mtest software development language is language C#, and seamlessly fits with Microsoft Windows system;
- 软件运行速度块；The software running speed is optimized to the best.
- 独特的拉伸屈服算法计算准确的弹性模量和屈服点，保证数据的准确性；
The unique tensile yield algorithm can calculate the accurate elastic modulus and yield point to make it ensure the accuracy of the data;
- 开放的控制程序和结果，可供用户设定特殊的试验标准；
Open control procedures and results are available for users to set special test standards;
- 数据自动分析，测试报告的模板可编辑；
Automatic data analysis, the test report template can be edited;
- 实时显示试验数据曲线，并具备多类型曲线图以及多组数据统计图功能。
Display test data curve in real time, and has the function of multi-type curve graph and multi-group data statistics graph.



- 开机界面设计多级管理密码
More safe HD-Mtest software designed multi-level management passwords,
- 测试界面简洁，控制按钮精美
More easy HD-Mtest software test interface is simple and friendly to understand,
- 多种曲线同框显示，便于分析 More multiple
More multiple
- 满足于各种标准测试和非标准测试方法，可选择需要的测试条件
More practical HD-Mtest software Pre-set more international test standard to match with different customer requirements.



测试结果

参数	最大屈服力(N)	屈服荷载(N)	平均屈服力(N)	测高高度(0.1mm)
1. 胶带	100.011	74.752	63.008	17.221
2. 布丁纸	100.011	74.752	63.008	17.221
3. 布丁纸	100.011	74.752	63.008	17.221
4. 布丁纸	100.011	74.752	63.008	17.221

多功能单柱系列

HD-B609-S

电脑伺服拉力材料试验机

Computerized Universal Test Machine

本产品测试各种材料、半成品及成品进行拉伸、压缩、弯曲、粘合、剪切、剥离、撕裂等力学性能的测试。可配置各式拉伸或压缩夹具测试各种材料的拉、压、弯、剪性能。

This machine can be used to do tension, compression, bend, adhesion, shear, peeling test with different clamps according to customer requirements and international standards.



主要技术参数 Technical Parameters

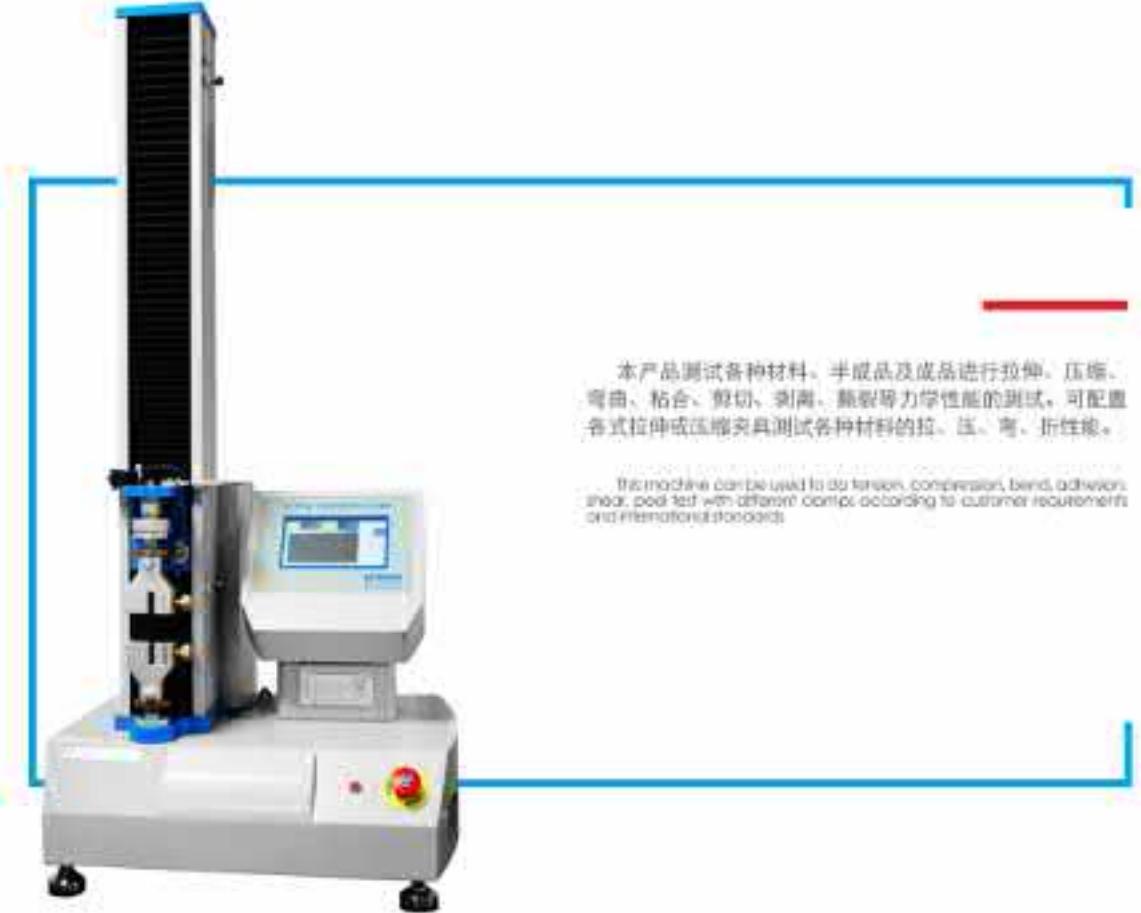
传感器容量 Load cell capacity	50N, 100N, 200N, 250N, 500N, 1kN, 2kN, 可选择(Options)
控制方式 Control way	全电脑控制 Full computer control
试验速度 Test speed	0.01-500mm/min
最大行程 (含夹具) Vertical test space including clamp	900mm
力值精度 Load accuracy	≤示值的±0.5% ≤±0.5% of indicated value
速度精度 Speed accuracy	≤示值的±0.5% ≤±0.5% of indicated value
电机 Motor	松下伺服电机Panasonic servo motor
丝杆 Screw	进口滚珠丝杆High precision ball screw
外形尺寸 Dimension	520×515×1250mm (L×W×H)
重量 Weight	约68kg Approx
电源 Power	1φ, AC 220V, 50Hz

多功能单柱系列

HD-B609B-S

电脑伺服拉力材料试验机

Computerized Universal Test Machine



本产品测试各种材料、半成品及成品进行拉伸、压缩、弯曲、粘合、剪切、剥离、撕裂等力学性能的测试。可配置各式拉伸或压缩夹具测试各种材料的拉、压、弯、剪性能。

This machine can be used to do tension, compression, bend, adhesion, shear, peeling test with different clamps according to customer requirements and international standards.

主要技术参数 Technical Parameters

传感器容量 Load cell capacity	50N, 100N, 200N, 250N, 500N, 1kN, 2kN, 可选择(Options)
控制方式 Control way	触摸屏控制/电脑控制Touch screen control or computer control(CD&PC)
试验速度 Test speed	0.01-500mm/min
最大行程 (含夹具) Vertical test space including clamp	900mm
力值精度 Load accuracy	≤示值的±0.5% ≤±0.5% of indicated value
速度精度 Speed accuracy	≤示值的±0.5% ≤±0.5% of indicated value
电机 Motor	松下伺服电机Panasonic servo motor
丝杆 Screw	进口滚珠丝杆High precision ball screw
外形尺寸 Dimension	520×515×1250mm (L×W×H)
重量 Weight	约70kg Approx
电源 Power	1φ, AC 220V, 50Hz

多功能单柱系列

HD-B609C-S

电脑伺服拉力试验机（低粘测试）

Computerized Universal Test Machine



本产品测试各种材料、半成品及成品进行拉伸、压缩、剪切、粘合、剪切、剥离、撕裂等力学性能的测试。可配置各式拉伸或压缩夹具测试各种材料的拉、压、剪、弯、折性能。

The machine can be used to do tension, compression, bend, adhesion, shear, peel test with different clamps according to customer requirement and international standards.

主要技术参数 Technical Parameters

传感器容量 Load cell capacity	50N
控制方式 Control way	全电脑控制 Full computer control
试验速度 Test speed	0.01-500mm/min
最大行程 (含夹具) Vertical test space including clamp	900mm
力值精度 Load accuracy	<示值的±0.5% <±0.5% of indicated value
速度精度 Speed accuracy	<示值的±0.5% <±0.5% of indicated value
电机 Motor	松下伺服电机 Panasonic servo motor
丝杆 Screw	滚珠丝杆 High precision ball screw
外形尺寸 Dimension	520×515×1250mm (L×W×H)
重量 Weight	596kg Approx
电源 Power	1φ, AC 220V, 50Hz

多功能单柱系列

HD-B617-S

电脑伺服拉力材料试验机

Computerized Universal Test Machine



本产品测试各种材料、半成品及成品进行拉伸、压缩、剪切、粘合、剪切、剥离、撕裂等力学性能的测试。可配置各式拉伸或压缩夹具测试各种材料的拉、压、剪、弯、折性能。

This machine can be used to do tension, compression, bend, adhesion, shear, peel test with different clamps according to customer requirements and international standards.

主要技术参数 Technical Parameters

传感器容量 Load cell capacity	100N, 200N, 300N, 500N, 1KN, 2KN, 5KN 可选择 Optional
控制方式 Control way	触摸屏控制/电脑控制 Touch screen control or computer control (LCD&PC)
试验速度 Test speed	0.01-500mm/min
最大行程 (含夹具) Vertical test space including clamp	1500mm
力值精度 Load accuracy	<示值的±0.5% <±0.5% of indicated value
速度精度 Speed accuracy	<示值的±0.5% <±0.5% of indicated value
电机 Motor	松下伺服电机 Panasonic servo motor
丝杆 Screw	进口滚珠丝杆 High precision ball screw
外形尺寸 Dimension	530×430×1700mm (L×W×H)
重量 Weight	596kg Approx
电源 Power	1φ, AC 220V, 50Hz

多功能双柱系列

HD-B604-S

电脑双柱拉力材料试验机

Computerized Universal Test Machine



本产品测试各种材料、半成品及成品进行拉伸、压缩、弯曲、粘合、剪切、剥离、撕裂等力学性能的测试。可配置各式拉伸或压缩夹具测试各种材料的拉、压、弯、剪切、剥离、撕裂等力学性能。

This machine can be used to do tension, compression, bend, adhesion, shear, peel test with different clamps according to customer requirements and international standards.

主要技术参数 Technical Parameters

传感器容量 Load cell capacity	50N, 100N, 200N, 500N, 1kN, 2kN, 5kN, 10kN, 20kN, 可选择(Option)
控制方式 Control way	全电脑控制 Full computer control
试验速度 Test speed	0.01~500mm/min
最大行程 (含夹具) Vertical test space including clamp	1200mm
力值精度 Load accuracy	<示值的±0.5% <±0.5% of indicated value
速度精度 Speed accuracy	<示值的±0.5% <±0.5% of indicated value
电机 Motor	松下伺服电机 Panasonic servomotor
丝杆 Screw	滚珠丝杆 High precision ball screw
外形尺寸 Dimension	880×505×1250mm (L×W×H)
重量 Weight	约90kg Approx
电源 Power	1φ, AC 220V, 50Hz

多功能双柱系列

HD-B612-S

电脑式拉力材料试验机

Computerized Universal Test Machine



本系列试验机可测试各种材料、半成品及成品进行拉伸、压缩、弯曲、粘合、剪切、剥离、撕裂、环刚度、弹簧拉压等力学性能的测试。可配置各式拉伸或压缩夹具测试各种材料的拉、压、弯、剪切、剥离、撕裂等力学性能。

This machine can be used to do tension, compression, bend, adhesion, shear, peel, ring stiffness test with different clamps according to customer requirements and international standards.

主要技术参数 Technical Parameters

传感器容量 Load cell capacity	100kN, 200kN, 可选择(Option)
试验力范围 Force range	0.4%~100%FS
速度范围 Test speed	0.01~500mm/min
试验力分辨率 Load resolution	最大载荷1/300000 1/300000 of max load
力值精度 Load accuracy	<示值的±0.5% <±0.5% of indicated value
变形分辨率 Deformation resolution	最大变形量1/300000 1/300000 of max deformation
速度精度 Speed accuracy	<示值的±0.5% <±0.5% of indicated value
有效压缩/拉伸空间 Vertical test space	650mm
有效试验宽度 Horizontal test space	450mm
主机外形尺寸 Dimension (L×W×H)	868*580*2050mm
总重量 Weight	600KG Approx
电机总功率 Power	1φ, AC 220V, 50Hz, 2kW

多功能双柱系列

HD-B615-S

电脑伺服双柱拉力材料试验机

Computerized Universal Test Machine



主要技术参数 Technical Parameters

传感器容量 Load cell capacity	10kN, 20kN, 30kN, 50kN, 可选择 (Optional)
控制方式 Control way	全电脑控制PC
速度范围 Test speed	0.01~300mm/min
传感器配置 Load cell	标准配置：高精度拉压负荷传感器，扩展配置：可加配多个负荷传感器 High precision Germany/USA brand load cell
最大行程 (含夹具) Vertical test space including clamp	1000mm
试验空间 Horizontal test space	< 420mm
力值解析度 Load resolution	1/250,000
力值精度 Load accuracy	<示值的±0.5% <±0.5% of indicated value
速度精度 Speed accuracy	<示值的±0.5% <±0.5% of indicated value
保护装置 Protection device	达到量程100%自动停机 (软件设置) ; 电子限位和行程行程双重保护 Machine will stop automatically when force reaches 100% of load cell capacity (software setting). It has double protection with limit switches and program setting.
电机 Motor	松下伺服电机Panasonic servo motor
丝杆 Screw	进口滚珠丝杆High precision ball screw
外形尺寸 Dimension (L*W*H)	680*804*2050mm
重量 Weight	约350KG Approx
电源 Power	1 φ , AC 220V, 50Hz

测试应用

HD-B615-S拥有丰富的应用，配备了100种以上不同的试样夹具供用户选择，可满足超过1000种材料的测试要求；针对用户的不同的，海达还提供定制服务，满足不同用户的测试需求。

HD-B615-S has rich application, more than 100 different sample fixtures are configured for users to choose, which can meet the test requirements of more than 1000 materials. For different user needs, Haida also provide customized service to meet the test requirements of different users.

大吨位系列

HD-B616

微机屏显式液压拉力材料试验机

Hydraulic Universal Test Machine

本产品测试各种材料及其制品在各种环境和模拟状态下的物理性能、机械性能、工艺性能、结构抗疲劳强度以及材料与构件内外缺陷的重要仪器设备。可以按照相应标准实现对金属或非金属材料的拉伸、压缩、弯曲、剪切等类型的试验。可以求取所测材料的抗拉强度、屈服强度、规定非比例延伸强度、弹性模量等性能指标。

This machine can be used to do tension, compression, bend, shear test with different clamps according to customer requirements and international standards which can get result of tensile/compression strength, yield strength, modulus of elasticity and so on.



主要技术参数 Technical Parameters

最大试验力/Max. force capacity	300kN, 600kN, 1000kN, 可选择(Optional)
力值范围 Force range	4%-100%FS
力值相对误差 Load accuracy	<示值的±0.5%±0.5% of indicated value
力值分辨率 Load resolution	最大载荷1/300000 1/300000 of max load
变形分辨率 Deformation resolution	最大变形量1/300000 1/300000 of max deformation
压缩空间 Vertical compression test space	500mm, 可定制 Can be customized
拉伸空间 Vertical tensile test space	600mm
立柱间距 Horizontal test space	455mm
夹紧方式 Clamp way	液压夹紧 Hydraulic
主机外形尺寸 Machine Dimension	750*600*2050mm
油源控制台尺寸 Controller Dimension	1100*750*1000mm
电机总功率 Power	3φ, AC 380V, 50Hz, 2.5kW
总重量 Weight	1630KG Approx

大吨位系列

HD-B616S

微机控制电液伺服万能材料试验机

Electro-hydraulic Servo Universal Test Machine

本产品测试各种材料及其制品在各种环境和模拟状态下的物理性能、机械性能、工艺性能、结构抗疲劳强度以及材料与构件内外缺陷的重要仪器设备。可以按照相应标准实现对金属或非金属材料的拉伸、压缩、弯曲、剪切等类型的试验。可以求取所测材料的抗拉强度、屈服强度、规定非比例延伸强度、弹性模量等性能指标。

This machine can be used to do tension, compression, bend, shear test with different clamps according to customer requirements and international standards which can get result of tensile/compression strength, yield strength, modulus of elasticity and so on.



主要技术参数 Technical Parameters

最大试验力/Max. force capacity	300kN, 600kN, 1000kN, 可选择(Optional)
力值范围 Force range	2%-100%FS
力值相对误差 Load accuracy	<示值的±0.5%±0.5% of indicated value
力值分辨率 Load resolution	最大载荷1/300000 1/300000 of max load
变形分辨率 Deformation resolution	最大变形量1/300000 1/300000 of max deformation
压缩空间 Vertical compression test space	500mm, 可定制 Can be customized
拉伸空间 Vertical tensile test space	600mm
立柱间距 Horizontal test space	455mm
夹紧方式 Clamp way	液压夹紧 Hydraulic
主机外形尺寸 Machine Dimension	760*620*2200mm
油源控制台尺寸 Controller Dimension	1100*750*1000mm
电机总功率 Power	3φ, AC 380V, 50Hz, 2.5kW
总重量 Weight	1950KG Approx

高低温系列

HD-B607-S

高低温电脑伺服拉力材料试验机

High-Low Temperature Tensile Strength Test Machine



本产品测试各种材料、半成品及成品在高低温环境下进行拉伸、压缩、弯曲、粘合、剪切、剥离、撕裂等力学性能的测试。可配置各式拉伸或压缩夹具测试各种材料的拉、压、弯、折性能。

This product tests various materials, semi-finished products and finished products under high and low temperature environments for tensile, compression, bending, bonding, shearing, peeling, tearing and other mechanical properties. It can be equipped with various tensile or compression fixtures to test the tensile, compressive, bending and bending properties of various materials.

主要技术参数 Technical Parameters

传感器容量 Load cell capacity	100N, 200N, 500N, 1kN, 2kN, 5kN, 10kN, 20kN, 30kN, 可选择 (Optional)
力值精度 Load accuracy	≤示值的±0.5%±0.2% of indicated value
速度精度 Speed accuracy	≤示值的±0.5%±0.3% of indicated value
电机 Motor	松下伺服电机Panasonic servo motor
控制方式 Control way	电脑控制PC
高低温测试空间 (W*H*D) Chamber test space	380*700*500mm (可定制 can be customized)
试验速度 Test speed	0.01~500mm/min
有限行程 Vertical test space	1300mm (可定制 can be customized)
力值解析度 Load resolution	Max.1/250,000
力值精度 Load accuracy	≤±0.5%
温控范围 Temp. range	20°C~150°C, -40°C~150°C, -40°C~150°C, -70°C~150°C 可选择, 或根据用户要求定制 can be customized
温度波动度 Temp. fluctuation	±0.5°C
温度偏差 Temp. error	±1.0°C
分布均匀度 Temp. uniformity	2°C
冷却压缩机 Compressor	全封闭式法国泰康原装压缩机France Tecumseh closed compressor
降温速率 Cooling speed	>1°C/Min
升温速率 Heating speed	>3°C/Min
外形尺寸 Dimension (W*D*H)	主机650*1200*1700mm
重量 Weight	约130KG Approx
电源 Power	1φ, AC 220V, 50Hz 或 3φ, AC 380V, 50Hz

夹具

