

Environmental Test Solutions





Climatic Chamber



Volume Range

110 L, 225L, 340L, 450L, 580L, 1000L, 1500L

(*) Upon customer request, customized sizes are also available.

Temperature Range

- 40°C to +180°C / - 70°C to +180°C

Humidity Range

10%RH to 98%RH

Refrigeration System

SINGLE / CASCADE

Warranty

1 YEAR WARRANTY



Temperature Chamber



Volume Range

110 L, 225L, 340L, 450L, 580L, 1000L, 1500L

(*) Upon customer request, customized sizes are also available.

Temperature Range

- 40°C to +180°C / - 70°C to +180°C

Refrigeration System

SINGLE / CASCADE

Warranty

1 YEAR WARRANTY



Bench Top/Table Top Chamber



Volume Range

42L

Temperature Range

- 30°C to +175°C / - 50°C to +175°C

Refrigeration System

SINGLE / CASCADE

Warranty

1 YEAR WARRANTY



Thermal Shock Chamber



Volume Range

60L, 120L, 300L & 1000L

(*) Upon customer request, customized sizes are also available.

(*) Available in Vertical and Horizontal sizes

Temperature Range

HOT ZONE +50°C to +180°C

Temperature Range

COLD ZONE -70°C to +50°C

Refrigeration System

SINGLE / CASCADE

Warranty

1 YEAR WARRANTY



Altitude Chamber



Volume Range

250L, 500L, 1000L

(*) Upon customer request, customized sizes are also available.

Temperature Range

- 40°C to +180°C /- 70°C to +180°C

Humidity Range

10%RH to 98%RH

Altitude Range

Atmospheric to 100mbar

Warranty

1 YEAR WARRANTY



Environmental Stress Screening Chamber



Volume Range

Temperature change rate: 5°C/Min : 120L, 340L, 450L, 1500L

Temperature change rate: 10K/min, 15K/min, 25K/min : 225L, 600L, 1000L

(*) Upon customer request, customized sizes are also available.

Temperature Range

- 40°C to +180°C /- 70°C to +180°C

Humidity Range

10%RH to 98%RH

Refrigeration System

SINGLE / CASCADE

Warranty

1 YEAR WARRANTY



Combined Vibration Climatic Chamber(AGREE)



Volume Range

110 L, 225L, 340L, 450L, 580L, 1000L, 1500L

(*) Upon customer request, customized sizes are also available.

Temperature Range

- 40°C to +180°C /- 70°C to +180°C

Humidity Range

10%RH to 98%RH

Refrigeration System

SINGLE / CASCADE

Warranty

1 YEAR WARRANTY



HALT/HASS Chamber



Volume Range

1500L

(*) Upon customer request, customized sizes are also available.

Temperature Range

- 100°C to +200°C

Frequency Range

2~10000Hz

Refrigeration System

LN2 BOOST

Acceleration Range

1~100GRMS

Table Size

W1067x H1270xD1067mm

Walk-In/ Drive-In Chambers



Temperature Range

- 40°C to +180°C / - 70°C to +180°C

Refrigeration System

SINGLE / CASCADE

Humidity Range

10%RH to 98%RH

Warranty

1 YEAR WARRANTY



Custom Solutions



Our ability to offer customized options for challenging testing requirements are what makes us strong. Our design engineering team has the know-how to customize environmental test chambers so they can work in unison with current technology, meet specific size requirements, and handle unusual testing scenarios.

When it comes to constructing humidity, temperature, and altitude-rated chambers for top aerospace and defense contractors or using the environmental chamber to test processors for computer manufacturers, our meticulous team is dedicated to providing solutions that not only fulfill project specifications, but also surpass industry standards for quality.



Integrated Temperature Chamber with Force Calibration System



Remote Cooling / Heating Customized Temperature System for Automotive Testing



Environmental Chamber with Ultra-Low Humidity Control



Custom Size Environmental Chamber with Vibration Integration (AGREE)



Walk in/ Drive in Chamber (Customizable)



Customized Thermal Shock System



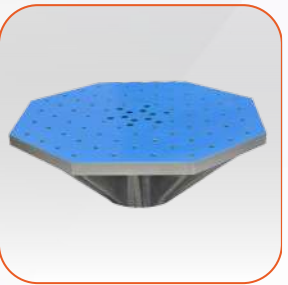
Electro-dynamic Vibration Test System (Air Cooled / Water Cooled Series)

Dongling is one of the largest and most innovative manufacturers of air cooled and water cooled vibration test systems. With Random sine force ratings from 1KN to 600KN and maximum payloads from 70Kg to 15,000Kg Typical applications of dongling's vibration shaker include au- tomotive component testing, electronic product testing, avionics testing and medical research etc. Dongling also provides turn-key solutions with environmental test chambers from HIACC for multi environment combined vibration tests,



Tri-Axis Electrodynamic Vibration Test System

Our range of vibration test equipment included the most advanced 3 axis electro-dynamic test system in the industry. This shaker system can more realistically simulate the dynamic environment of the real world by simultaneously exciting 3 different axis Additional benefit of simultaneous 3 axis testing are shortened test time, improvements in complex test analysis and a reduction in under and over testing of product in single axis.



Head Expander

Our head expanders are designed to optimise performance on your vibration test system Head expanders are made of Magnesium with various sizes from 300mm to 3500mm in Square or Round shape Customised shapes and sizes are also available. All head expanders are passed finite element analysis..



Slip Table

Slip table can be integrated with Electro-Dynamic Vibration Shakers to achieve three-dimensional vibration test. The slip table can be classified as per integration type, split type and connection way. V-shaped guide rail slip table includes the horizontal table, V-shaped rail, connectors, granite slab, slip table base, and built-in oil source. Fuel supply pump is built-in with a compact structure and easy operation. Based on the slip table size, the number of V-shaped guide rail is different. This V-shaped guide rail has a high resistance to overturning moment.



Power amplifier

The smart and energy saving power amplifier from Dongling is composed of the logical unit power unit and control unit has the intelligent manipulation stability flexible configuration efficient compact structure and easy maintenance. The amplifier can be retrofitted with any brand vibration shaker for better performance and reliability.



Vibration Controller

Vibration controller used high performance processor with low-noise analog technology. achieves high performance and high reliability. It comes with an all-in-one input interface and adapts to a variety of sensor input. The controller is compatible to every computer and support software sine, random, shock, RSTD, SOR, ROR and field data simulation



Vertical Shock/Bump Tester

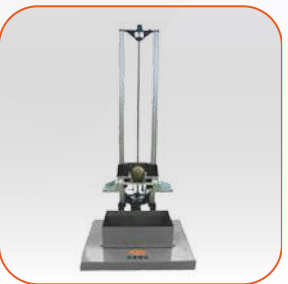
The hydraulic vertical shock test system converts high-pressure liquid energy into kinetic energy to create a reciprocating movement of the element through an electro-hydraulic servo valve. The energy conversion and amplification is used to simulate the vibration or shock encountered in the actual usage environment. The intent of the testing is to optimise the product structure to withstand the actual shock environment it is expected to encounter.

Other Options Available: Vertical Shock/Bump Tester (Pneumatic), Horizontal Shock/Bump Tester (Hydraulic)



Incline Shock Tester

Incline shock test system simulates a real shock environment to estimate the impact resistance or damage level of a product. The simulated environment replicates shocks produced during product handling, stacking shelves, loading/unloading and transportations. The incline shock test system is widely used in the packaging industry, scientific research institutions and transportation industry.



Servo Vertical Shock Tester

The shock tester is commonly used for the reliability damage test of the electrical & electronic components by simulating an impact environment.



Drop Tester

Drop test system is used to simulate fall condition to determine the drop bearing capacity of the specimen to in the transportation and handling process. The specimen's surface, edges and corners are tested for its reliability & fatigue. The test insights will support you in improving and perfecting the package design.

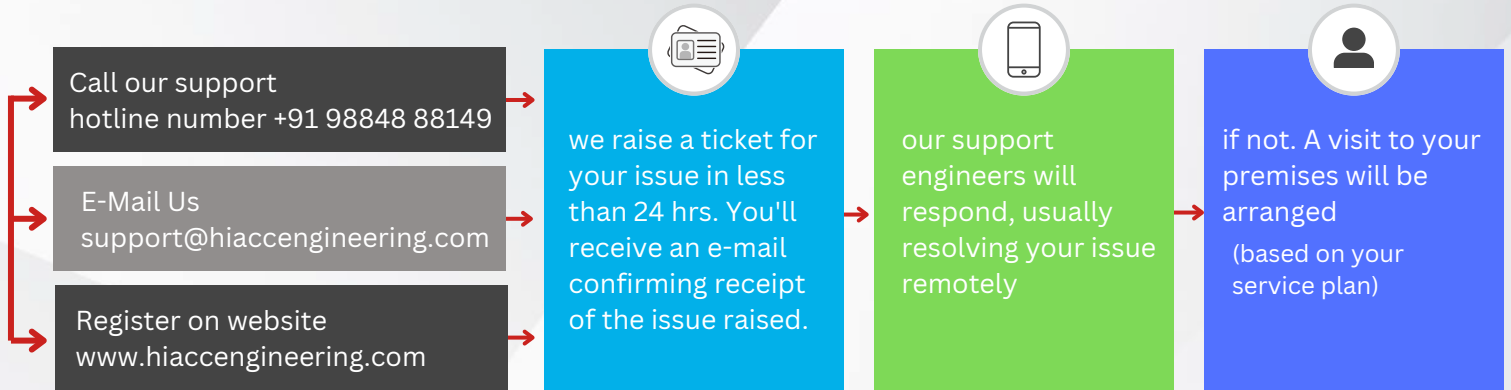


Pneumatic Zero Drop Tester

Designed as per ISTA packaging standard, the Pneumatic Zero Drop Test stand is used to assess the drop bearing capacity of the specimen during its transportation and handling process. The system is ideal for testing the specimen vulnerability around edges, surfaces and corners at different heights.



How Our Support Works



Areas of Excellence

Here are the main areas of excellence for the single-source systems supplier:

- ✓ Application-Specific Software
- ✓ Cabinet Design and Fabrication
- ✓ Combined Environment Testing
- ✓ Control System Development
- ✓ Customization
- ✓ Direct Sales, Product Support, and Service
- ✓ Functional Test Equipment Integration
- ✓ High-Performance Refrigeration
- ✓ Vibration System Design

Serving INDIAN industry

For a decade, we have had the honor of collaborating with and creating tailored solutions for numerous companies across diverse industries. Our expertise extends to:

- ✓ Aerospace and Space
- ✓ Appliance
- ✓ Automotive
- ✓ Defense and Military
- ✓ Electronics
- ✓ Lithium-Ion Battery
- ✓ Medical Device
- ✓ Semiconductor
- ✓ Solar and Wind Energy

Employing a professional tone, we are committed to delivering top-notch services tailored to the specific needs of each industry we serve.





Hiacc[®]

Engineering And Services Pvt. Ltd

P.No:18 , M.G.Nagar, Poonnamallee, Chennai – 600 056,
Tamilnadu, India.

Email: info@hiaccengineering.com

Phone: **+91 91766 77448 / +91 9884888165**

www.hiaccengineering.com



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