

Environmental Dynamic Testing

Technical Information



Dynamic Testing

- Vibration
- Impact
- Shock
- Bump
- Drop
- Topple
- Free fall

Range of Product Tested

- Electrical / Electronic Components
- Electro-mechanical Devices
- Mechanical Products
- Micro-electronic Circuits & Components
- Automotive Components
- PCB Assemblies
- Telecommunication Equipment

Abtest is a UKAS accredited independent laboratory capable of testing products to National and International Standards, as well as customer generated specifications. We can simulate and test the vibration of driving on a cobbled road and the impact of dropping your mobile phone.



A subsidiary of TT electronics plc



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Technical Information



Various electro-dynamic shakers are available for vibration, shock and bump testing. Shakers can interface with environmental chambers allowing for testing to be performed at extremes of temperature and humidity.

VIBRATION

- Sinusoidal
- Random
- Sine on Random
- Random on Random
- Gunfire

SHOCK / BUMP

- Half sine
- Trapezoidal
- Triangular
- Rectangular
- Initial peak sawtooth
- Terminal peak sawtooth
- User defined



MAXIMUM SYSTEM LIMITS

Frequency range	2Hz to 10 kHz
Acceleration	125 gn rms
Pk/pk displacement	±50.8mm
Velocity	2 m/s
Temp range	-55 to +125°C
Humidity range	up to 98 %RH
Chamber size	0.6 x 0.6 x 0.6 metres
Test item mass	350 kg

Note:

The system limits are absolute maximums and cannot necessarily all be applied at the same time.

Please contact Abtest for further details.

Various other equipments are also available to perform the following tests.

IMPACT

- Hammer method
- Ball bearing method

DROP AND TOPPLE

FREE FALL

Model Shop/Tool Room

This facility with Computer Numerical Control (CNC) and graphic enhanced machine tools is also available. We design and manufacture a wide range of products. These include Prototype Models for customer exhibitions, test equipment for use in automotive and computer industries, fixtures can be linked to computer controlled data analysers designed and built by our Engineering facility. General tool room work can also be offered with fast delivery turnaround.

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