



Product Service

**Choose certainty.
Add value.**

Environmental Testing

We have been providing environmental testing services (shock, vibration, climatic) to the defence industry since 1953 covering many projects for Land, Sea and Air.

However complex your product, and whatever your industry sector, you can have confidence that your testing needs come within the scope of our highly trained experience staff, who are available to help you wherever, whenever.

Managing Requirements

We have considerable experience in reviewing complex requirements for major test programmes. The focus is always to manage the risk, minimise the amount of testing and provide evidence and arguments to demonstrate compliance through a meaningful compliance matrix, test plans and testing.

Climatic Testing

Our 11 chambers can simulate either single environmental conditions or multiple conditions simultaneously. These chambers cover the extremes of temperature, altitude, humidity, temperature cycling, solar heating and corrosive atmospheres. All chambers are continuously monitored by independent computer-controlled data collection systems.

Mechanical Testing

Our mechanical test laboratories are among the most extensive in Europe, and include vibration systems with interchangeable slip tables capable of up to 159kN some with a displacement of up to 100mm. Our state-of-the-art controllers offer instant analysis of results, allowing for accurate and efficient problem solving and reporting.



We can perform vibration testing at temperatures from -60 to +100 °C.

Our Fixture Design Service can cover products of any size and complexity. We have designed many hundreds of jigs over the years and have a stock of popular fixtures, which we can often modify to reduce the fixture cost.

TÜV Product Service
TÜV SÜD Group

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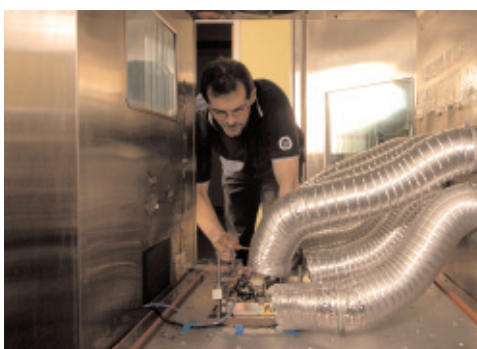


Product Service

www.tuvps.co.uk

Highly Accelerated Life Testing (HALT)

HALT and HASS precipitate failures in electronic products and are used extensively by leading manufacturers as part of their design and production processes.



HASS (Highly Accelerated Stress Screening) will ensure that the reliability gains achieved through HALT testing will be

maintained during future production. HALT & HASS testing increases market confidence by significantly reducing the number of failures during the life of a product and can reduce the life cycle costs to the manufacturer, by cutting the number of warranty claims.

Packaging Performance

Before you start shipping, you need to be confident that your packaging will protect your product. We offer you a product and packaging test service which evaluates the performance of your packaging.

As part of the testing programme, we can determine the fragility of your product, enabling you to decide the level of protection that your packaging requires.

Climatic Testing	Mechanical Testing	Package Testing
Sand/Dust/Driving Rain & Immersion	Vibration up to 150kN thrust	Bounce
Salt Spray	Shock	Shock 2.2x1.5m table
Temperature : -65°C to +200°C	Free Fall : 12m	Vibration 75mm displacement
Temperature/Humidity : 120m³, 4m doors	Shock Response Spectrum (SRS)	Side Impact : 1.5T @ 6mph
Temperature/Altitude/Humidity	Bump	Compression : 15 tonne
Icing	Drop & Topple	Stability Test
Pressure		
Thermal Shock		
HALT/HASS : -100°C to +200°C with +60°C/Min Changes (Component changes 1°C/sec)		

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