

# HALT and HASS Tests



## Strength and Quality Testing

If you want to forge, enhance and uphold your reputation by significantly reducing the monetary risks resulting from product weaknesses, nothing will test the strength of your products better than a HALT session which held to test the quality of your products using the HASS, a leading production tool.

### A REWARDING SESSION

You will most certainly benefit from testing the strength of your products because by significantly improving their reliability, you will succeed in:

- Reducing after-sales costs (warranty)
- Increasing the satisfaction of your clientele
- Establishing or enhancing your company's reputation
- Reducing the defect rate over the product's useful life span

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## Strength and Quality Testing

### EQUIPMENT

We offer access to a brand new chamber at the cutting edge of technology, namely the HALT/HASS Typhoon 3.0 chamber by Qualmark, for HALT and HASS testing.



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### Operating method

Types of stress	Temperature, vibration or both
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### Main characteristics

Vibration and frequency range and type of vibration	2 to 50 GRMS random, 10Hz to 5 kHz, six degrees of play, Omni-axial and broadband excitation
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Table capacity and dimensions	0 to 450 lbs (0-204kg) and 36" x 36" (914 mm x 914 mm)
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Temperature range	-100°C to +200°C (-148°F to +392°F, LN <sub>2</sub> injection (autonomy 1000 litres)
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Variation rate	60°C/min. -50°C to 120°C (typical HALT rage)
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Thermocouples	6 thermocouple inputs expandable to accomodate 20 inputs
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Accelerometres	10 inputs: 1 control input and 9 product inputs
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For advice or information about HALT & HASS tests:

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HALT : Highly Accelerated Life Test  
HASS : Highly Accelerated Stress Screen  
POF : Proof of Screen (Preuve de validité)