

Environmental Testing - Vibration Shaker

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Introducing Vipac's newly commissioned class leading vibration testing system. This world-class vibration shaker is fully versatile for testing a wide range of products.

Key Capabilities

- Huge force capability - up to 58kN peak sine force and 66kN peak force in random
- Peak sine acceleration of 140g with a peak shock force of 118kN
- 63mm pk-pk travel
- Capable of supporting payloads of up to 700kg in Vertical and a massive 2,000kg in Horizontal
- Large 1.2m² slip table with uniform hole spacing for securing of payloads during horizontal testing.

Major Use Areas

- Used for R&D and design validation across a wide range of industries including Defence, Aerospace, Rail, Automotive, Mining & Construction, Medical and many others.
- Routinely used for vibration qualification of numerous products such as medical devices, consumer electronics, communications equipment, audio-visual hardware, mining vehicle equipment, ruggedized hardware, packaging testing, vibration isolation effectiveness and many more.

Standards Tested To:

- MIL-STD 810, MIL-STD 202, MIL-STD 167, DEF-STAN 00-35, IEC 60068, IEC 61373, ISO 16750, EN 50125, EN 50155 among many others
- Any client specific test specifications also catered for upon request
- In house capability for design and fabrication of test specific fixturing as required using CAD, FEA and vibration testing best practices.



The LDS V8 Shaker Combo in Vipac's Port Melbourne Laboratory.

TESTIMONIAL

For Comtruk, it was imperative that the new Sport Utility Bed (SUB) was developed to meet the performance standards expected to match the vehicle the SUB was fitted to. Therefore, we recently contracted Vipac to conduct durability testing on the SUB. In collaboration with Comtruk engineers, Vipac's team of engineers and scientists prepared and executed a test plan that exposed the SUB to simulated severe off-road and on-road conditions using a Vipac dynamic durability test cell.

The testing was brutal and exposed a number of learnings which have now been rectified and retested. The learnings from this test and validation phase was critical to ensure the SUB met the quality performance standards expected by statutory bodies and customers.

It is reassuring to know that we will launch the SUB with confidence, mitigating risk associated with potential field or warranty claims. The exercise was a great business outcome for all concerned.

COMTRUK

