



## Vibration & Shock Qualification Testing

Vipac Engineers & Scientists Ltd is an independent engineering Research & Development consultancy with offices located throughout Australia, South-East Asia and the Middle East.

With over 30 years experience Vipac provides innovative, cost-effective, reliable and confidential services to a wide variety of clients and industries.

Thanks to our dedicated team of engineers and scientists' diverse range of knowledge and expertise, Vipac remains one of the partner of choice for many Australian and Overseas clients supporting the drive to great product design and reliability.

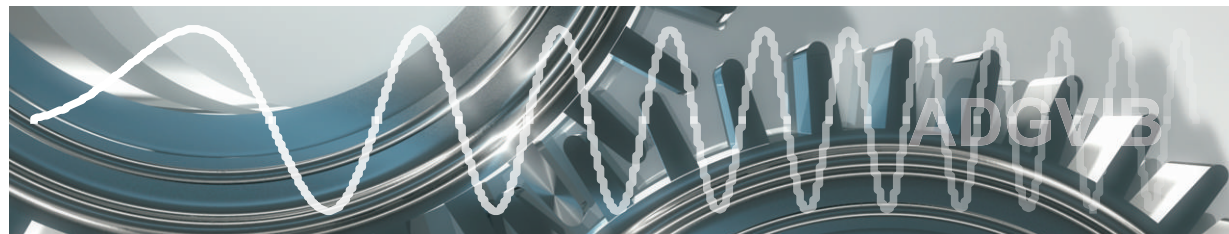
From basic qualification to customised R&D testing procedures Vipac's Vibration Laboratory offers a flexible, customer centric service, regardless of project size.

## Services

- Product Qualification Testing
- Durability Testing
- Troubleshooting
- Research & Development
- Calibration & System Audit

## Test Standards

- AS (Australian Standards)
- BS (British Standards)
- Automotive Standards
- ISO
- IEC
- EN
- DEF-STN
- MIL-STD-810E/F/G
- MIL-STD-167A
- RTCA/DO-160E



# Vibration & Shock Qualification Testing

## Equipment:

### Test Cell 1 - Electrodynamic (ED) Shaker Facility:

#### ED Shaker:

- Force: 26KN
- Stroke: 1 Inch
- Frequency Range: 5 Hz - 2000 Hz
- Test Sample Mounting Options: Slip Table
- Digital Vibration Controller: Sine  
Random  
Random on Random  
Sine on Random  
Classic Shock

#### Climatic chamber:

- Temperature range: -40°C to 140°C
- Internal dimensions: 1200x800x800mm

### Test Cell 2 - Electrodynamic (ED) Shaker Facility:

#### ED Shaker:

- Force: 26KN
- Stroke: 1 Inch
- Frequency Range: 5 Hz - 2000 Hz
- Digital Vibration Controllers: Sine  
Random  
Random on Random  
Sine on Random  
Classic Shock

#### Climatic chamber:

- Temperature range: -40°C to 140°C
- Internal dimensions: 1200x800x800mm

### Test Cell 3 - Electro-Hydraulic (EH) actuator Facility:

#### EH Actuator:

- Force: 147 KN
- Total excursion: 300mm
- Frequency range: 0.01 - 300Hz

### Dedicated Shock Testing Facilities:

#### Shock Table 1:

- Acceleration: 600g @ 1.5ms
- Lifting Capacity: 900Kg

#### Shock Table 2:

- Acceleration: 2000g
- Lifting Capacity: 200Kg

#### Horizontal Shock Table (10deg Incline):

- Acceleration: 80g
- Lifting Capacity: 200Kg