



MAST – MULTI AXIS SHAKE TABLE

Description

CSA Group Leyland's Multi Axis Shake Table (MAST) is used to support durability, Key Life Testing (KLT) and the development of seats, instrument panels and other products. MTS RPC Pro is used to generate a drive signal for the MAST, replicating Road Load Data (RLD) so that CSA Group engineers can then run a defined durability profile, with added environmental loading and functional tests if required. CSA Group can furthermore support the whole testing process by collecting all the relevant RLD off a given surface / condition, iterating drive signals for the rig, running the test and analysing the results. To assist this process, our instrumentation department can provide strain, load, displacement, torque, force, pressure and acceleration parameters to each test. Testing can be conducted on component level up to ½ car and off-road vehicle, subject to testing parameters.

Typical Applications

- Seats & IPs testing
- KLT (Key Life Tests)
- Durability

Specification

- 5 DoF (Can be expanded to 6 DoF)
- RLD Capable (up to 50Hz)
- Payload up to approx. 700kg
- 2.25 m² table top area
- 11.0 m³ environmental chamber
- -40C to 120C (Plus humidity & solar loading)