ENVIRONMENTAL TESTING

On site or in lab characterization testing



Your expectations

You would like to:

Understand your products vibratory behavior in order to optimize their design and improve their reliability and comfort performance (transportation)

Characterize, qualify or reliabilize your products resistance against shock and vibration Ensure your in operation products reliability

Delegate the management of a complete multiphysics qualification test plan

Our solutions



Cetim offers you:

Vibration diagnosis under operating conditions or during testing: full dynamic instrumentation (vibration, strain gauges, electrical current, pressure, ...), on-site data acquisition with mobile and autonomous multichannel recorders (up to 192 simultaneous acquisition channels), data analysis, technical expertise and recommendations

Structural dynamic characterization: modal analysis (static or in operation) and numerical model correlation **Electrodynamic shakers test** allowing to conduct: steady state forces up to 200kN and shocks up to 600kN and 160g, test on large equipment up to 5000kg, vibration control system with up to 120 acquisition channels, combined vibration and climatic test from -50°C to +160°C, test under operating conditions, standard or accelerated test (sine, random, shocks, SRS, combined, time replication, ...)

Additionnal skills:

Seismic testing (*cf* reference datasheet)

Climatic chambers (up to 2m³, -70°C to +200°C, 10% to 98%RH), PVT (Pressure, Vibration, Temperature), corrosion, ...

Vibration monitoring for equipment and **predictive maintenance** using vibration detection **Definition and spreading** of a **data analysis strategy** (optimized test matrix, feedback analysis, data analysis for accelerated test plan)

Customization of vibration tests according to your product's life profile

Your benefits



Cetim provides you:

A multidisciplinary team and a technical referent in charge of the project





Technical solutions based on aknowledged experience in industrial products

More reliable products and better vibration behaviour of your in operation equipments

