Vibration control devices

VTT TECHNOLOGY

Vibration and impact control gives reliability, safety, comfort, increased lifetime and significant saves in service costs.

SOLUTION

VTT has two novel options for mitigation of vibration and shocks: Resonance Killer broadband passive mass damper and G-limit shock isolator. Resonance Killer reduces disturbing vibrations of machines, engines, pipes and structures in broad frequency band. G-limit reliably isolates extreme shock excitations while retaining rigidity and accurate alignment in normal conditions. Both these novel solutions are applicable to large as well as small machines and structures down to small electronics.

IMPACT

Our solutions gives 5-10 times better protection in case of transient loading than conventional solutions. Also no power or sensors are needed hence the solutions are reliable.
Resonance killer concepts

VTT TECHNOLOGY

Vibration and impact control gives reliability, safety, comfort, increased lifetime and significant saves in service costs.

SOLUTION

Resonance Killer concepts reduce vibrations of machines, engines, pipes and structures in a broad frequency band (typically effective for 1-3 octave band within frequency range 4-1000Hz, possibility of combining multiple damper units for even broader effective band). VTT can design Resonance Killer solutions for translational, multiaxial translational or torsional vibration damping.

IMPACT

Our solutions gives 5-10 times better protection in case of transient loading than conventional solutions. Also no power or sensors are needed hence the solutions are reliable.
Shock isolator

**VTT TECHNOLOGY**

Impact control gives reliability, safety, comfort, increased lifetime and significant saves in service costs. VTT has created a novel shock isolator, G-limit.

**SOLUTION**

G-limit isolates extreme shock excitations. G-limit retains desired rigidity and alignment while in allowed load range. It regains original alignment after shock. Multiaxial solutions with adjustable isolation thresholds can be implemented.

**IMPACT**

- Overcomes the limits of passive shock
- Tailored G-limit solution has low weight, low space requirement and flexible mounting options
- no power or sensors are needed hence the solutions are reliable