

Adaptable Vibration Isolation – with Manual and Automated Controls

System from G+H Noise Control prevents unwanted movement of vibration isolated machinery, equipment and test beds



Insulation

Fire
Protection

Noise
Control

Challenge

Vibration isolated machinery or equipment can be susceptible to impermissible movements caused by external factors or operating situations, e.g. moving a test object onto the test bed. This is due to the change in the load. To prevent this from occurring, it is necessary to be able to activate and deactivate the vibration isolation system as required.

Customer

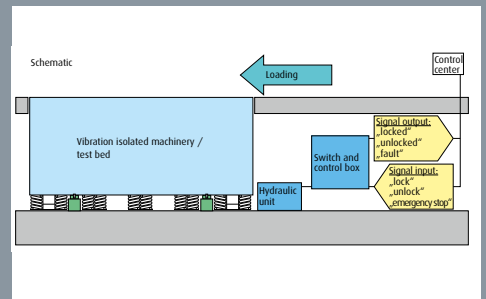
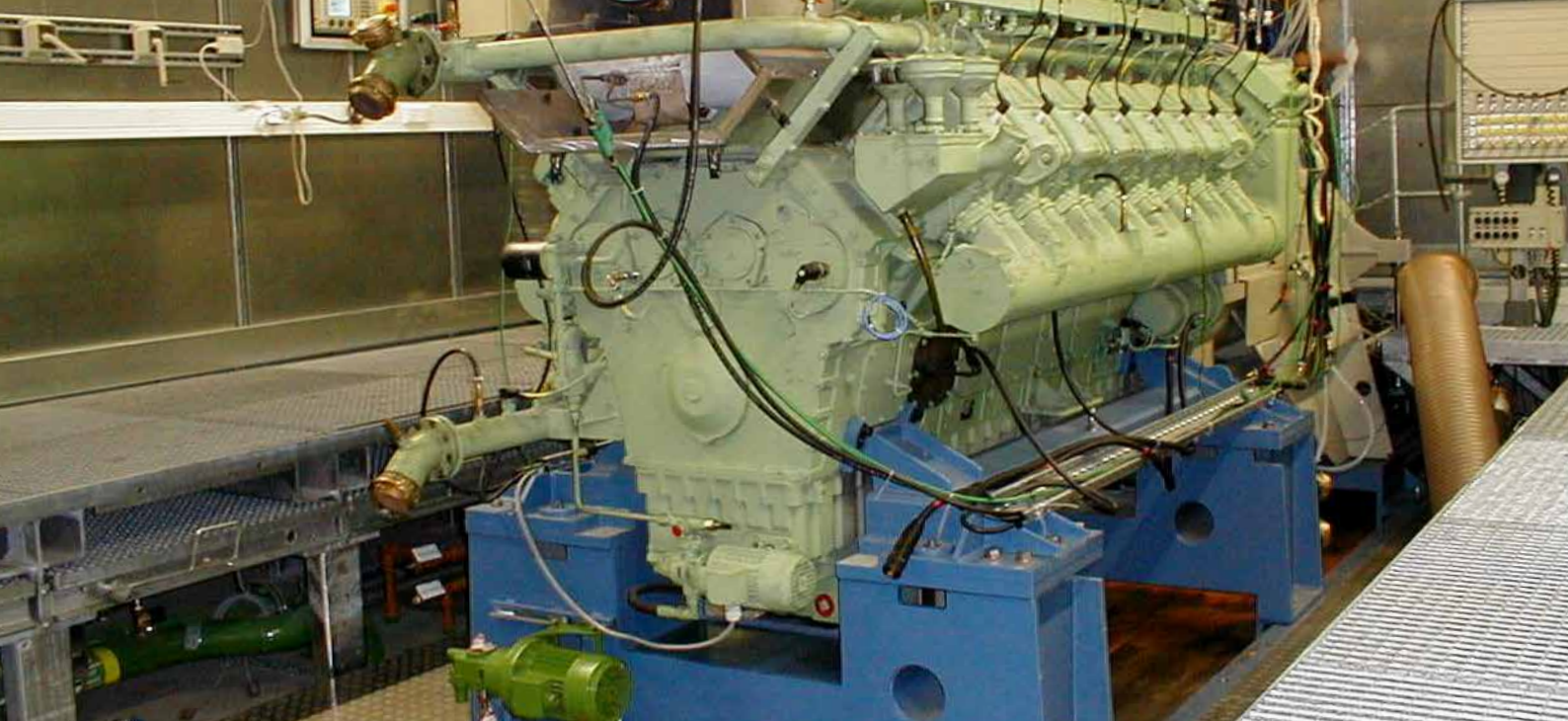
Deutz Power Systems

Project

Vibration isolation of motor test beds

Project Data

- Sprung mass: 3 x 184 t
- Weight (hovercraft + motor): 22 t
- Max. misalignment: > 0.2 mm
- Tuning frequency: 1.9 Hz



Unwanted amplitudes or movements often occur during operation or during the feeding or loading of machinery, equipment or test beds. This is due to the load changes associated with the process (test objects, live loads, loading). Using an adaptable vibration isolation system with hydraulic cylinders makes it possible to lock (bypass) the

vibration isolated mountings of test beds, equipment and machinery as and when required – and thus prevents unwanted movement. The user has a choice of manual or automated controls. The vibration isolation system can therefore be activated and deactivated, e.g. from the comfort of the control room.



HERAUSFORDERUNG

- Prevent unwanted movement
- Counteract load changes (test objects, live loads, loading)

LÖSUNG

- Adaptable vibration isolation
- Addition of hydraulic cylinders
- Lock (bypass) the vibration isolated mounting as required

VORTEILE

- Easy handling even of very low tuned, high performance vibration isolation mountings
- Manual or automated activation and deactivation