

Multi-mass Systems for Special Requirements

Special solutions are available from G+H Schallschutz to ensure optimized vibrationisolated mounting of machinery with structure-borne noise control over 30–60 dB

Insulation

Challenge

Fire Protection

Noise Control Whenever vibration isolation and structureborne sound insulation are too low in a simple elastic mount (single-mass system), it is expedient to apply multi-mass systems from G+H Noise Control with up to 60 dB.

Customer

Kreiskrankenhaus Bergstrasse (local hospital) Heppenheim, Germany, Energiezentrale (electric power station)

Project

Vibration isolation of electricity generators (motorized power generating units)

Project Data

Sprung mass: 36 metric tonnes Insulation: 55 dB





Transmission insulation

Whenever the vibration-isolated mounting of machinery poses special requirements, it is possible to achieve the desired results through custom solutions. A comparison between calculated data and measured values shows that multi-mass systems display an excellent match between the two sets of data.

If masses and spring stiffness values are optimally coordinated, it is possible to achieve insertion loss values of up to 60 dB. Alternatively, in some applications, DEL elements can be used instead of separate intermediate masses.

CHALLENGE

 Vibration-isolated mounting of machinery and equipment with structure-borne noise control up to 60 dB

SOLUTION

- Multi-mass systems with coordinated vibration absorbers and masses
- Adjustable to various levels of requirements
- DEL elements

ADVANTAGES

- Increased insulation up to 60 dB
- Pinpointed load distribution
- With DEL elements: low system weight and simple assembly

G+H NOISE CONTROL Customized Engineering Solutions

G+H Schallschutz GmbH Janderstraße 3 | 68199 Mannheim Phone: +49 621 502-0 | Fax: +49 621 502-599 info@guh-group.com | www.guh-group.com

© G+H Group, 2017. All rights reserved. G+H and the G+H logo are trade names or registered trademarks of VINCI Energies. All other trade names and registered trademarks are the property of their respective owners. Images: © G+H Group. The information in this brochure only consists of general descriptions and/or performance features which may not always apply to every specific application in the form described, or which may change as products are developed further.