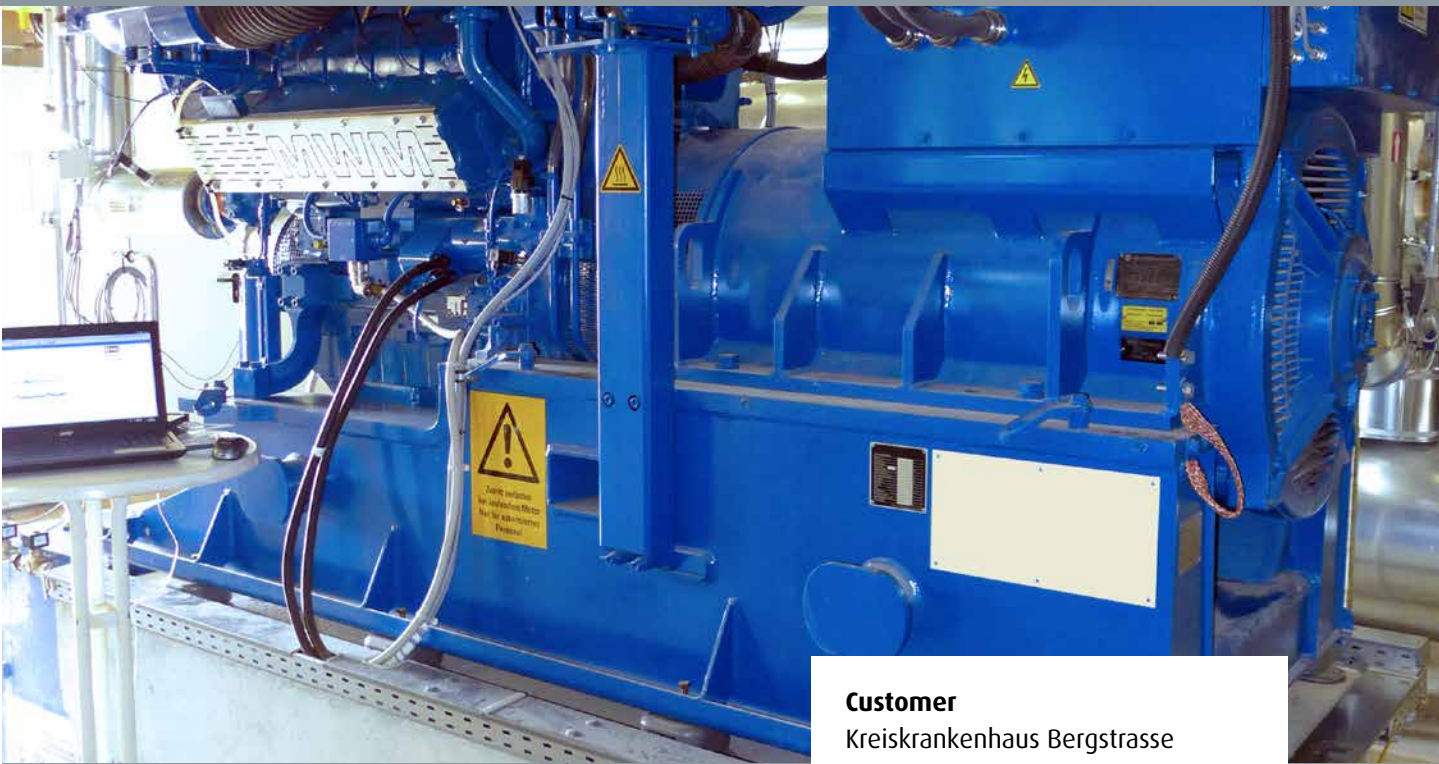


Multi-mass Systems for Special Requirements

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



Insulation

Fire
Protection

Noise
Control

Challenge

Whenever vibration isolation and structure-borne 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

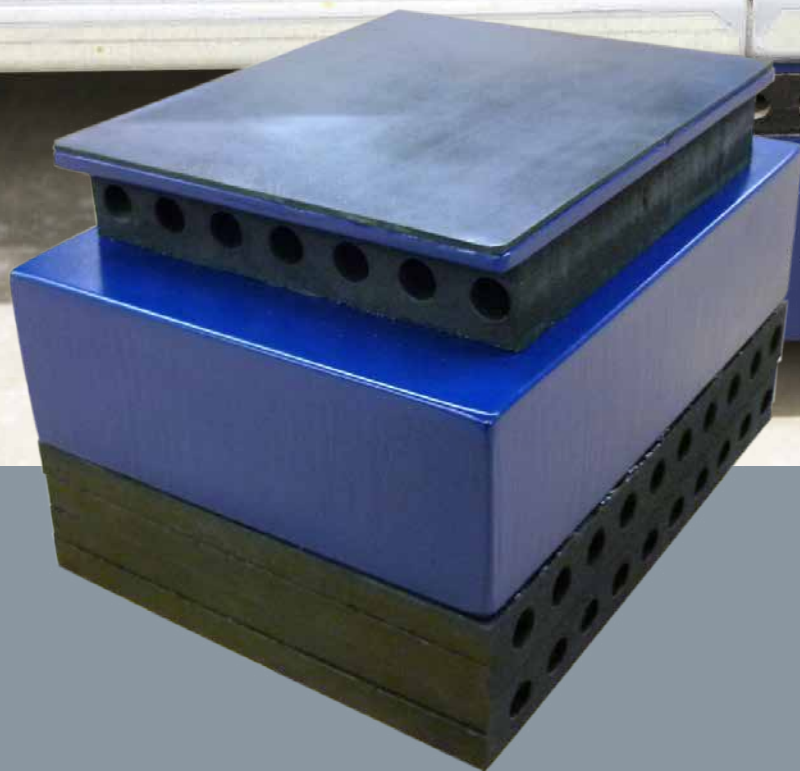
Kreiskrankenhaus Bergstrasse
(local hospital) Heppenheim,
Germany, Energiezentrale (electric
power station)

Project

Vibration isolation of electricity gen-
erators (motorized power generat-
ing units)

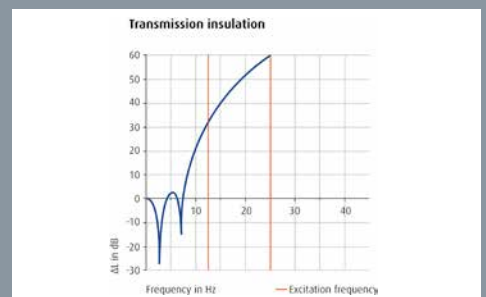
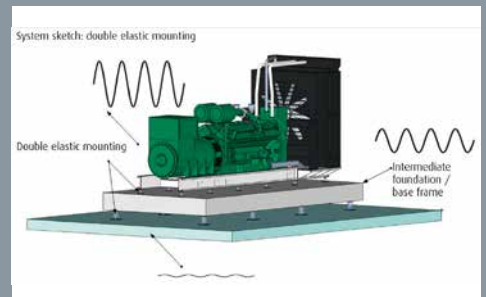
Project Data

Sprung mass: 36 metric tonnes
Insulation: 55 dB



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