

Machinery Dynamics and Acoustics

Acoustics and Noise Reduction

Sulzer Innotec

Acoustics deals directly with one of the five senses. Healthy hearing is crucial for the quality of life. Pleasant sounds can increase well being remarkably whereas noise can result in extreme stress.

What we offer

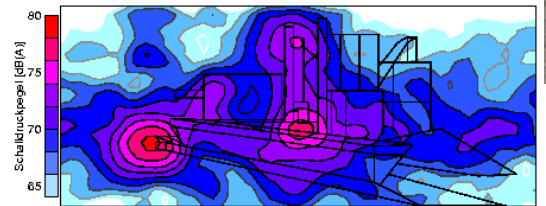
- Consulting by experts
- In-situ measurements of noise
- Noise measurements on equipment and machines in our acoustics laboratory (50 m² echo-free room)
- Localisation of noise sources
- Evaluation of noise according to the standards, i.e. ISO 3740 & ISO 9614
- Conception of measures to reduce acoustic emissions



Analysis of equipment in the laboratory

Examples

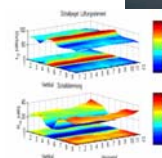
- Elimination of noise problems in residential and industrial buildings
- Noise optimisation of heat pumps, heating, ventilation and air conditioning equipment
- Noise assessment and optimisation of aggregates (pumps, engines, general machines), also under consideration of vibrational aspects



Localisation of sound sources using Array-technics

Customer benefits

- Machines and equipment are quieter
- Enhanced ergonomic conditions through reduced noise exposure at the workplace
- No complaints by the neighbours and other residents
- Higher comfort for passengers in quieter carriages
- Longer durability and less abrasion as a result of reduced vibration



Evaluation of acoustic insulation measures

Sulzer Innotec has many years experience in acoustics. The acoustics laboratory is one of the biggest in Switzerland. You benefit from our know-how and have access to the newest innovative solutions. Our specialists will be pleased to advice you further.