



Engineering Design & Solutions

Sometimes it is not easy to control or attempt to reduce the noise level that exceeds acceptable standards, due to insufficient data about the noise source. Therefore, it is difficult to select suitable materials or effective methods of noise control that utilize engineering measures. "Engineering Design and Solutions" from NTi is a site survey that studies the noise data from a machine's working activities to find suitable noise reduction methods at the lowest possible cost. This is a practical noise reduction approach and does not cause issues in occupational health and safety or other problems later.

There are many cases where noise problems that have been found to cause difficulties for those involved because they do not know how to get started in solving the problem. For instance, which kind of materials to choose or a lack of clarity of predicted improvement results. These aforementioned reasons cause hesitation in undertaking a noise control project and furthermore run the risk of only measuring results afterwards. There are many solutions for these problems and one of them is "Engineering Design and Solutions" which will use all of the available information in the analysis to create an easy-to-understand summary. This service helps those involved to make accurate decisions with facts that occur in the working area or use the information contained in the auction to find a subcontractor. There will not be any time-wasting or guesswork in finding the best solution "Because we understand noise".



Reasons for ineffective noise control

- Incorrect identification of the noise source
- Cause of the problem remains unknown
- The chosen solution does not match the noise problem conditions
- Unsuitable Material selection for improvement
- Not using the proper measurement tools
- Lack of a database containing noise control materials
- Lack of experience

Customers

- Proprietors who own property with a noise source
- Relevant parties who are responsible for noise reduction in the production area
- Consultants of environmental management and noise pollution

Working

- Collect noise from machinery data
- Analyze noise data and relations of noise frequencies
- Conduct noise simulation models using various noise reduction methods
- Assess the reduced noise level and predicted costs of each method
- Create noise contour, showing the effectiveness of the noise reduction method
- Offer approaches, materials, construction styles, and cost of noise control



Tools

- Integrated sound level meter class-1 and class-2
- Thermal imaging camera
- Anemometer
- Noise contour software
- Noise frequency analysis software
- Software for determining SAC STC TL values of materials
- Software for noise simulation models in each situation

Output

- Noise-annoyance level
- Sound pressure level
- Disturb frequencies
- Octave/noise contour
- Practical solutions and cost
- Before versus after improvement of noise simulation models
- Executive summary report