

VIBRATEC

Marine & Navy

Sound, Shock & Vibration Control



Quietly Improving Your Environment

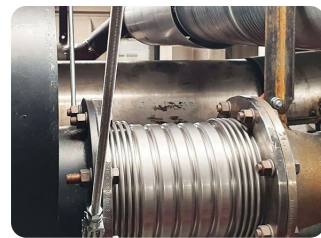
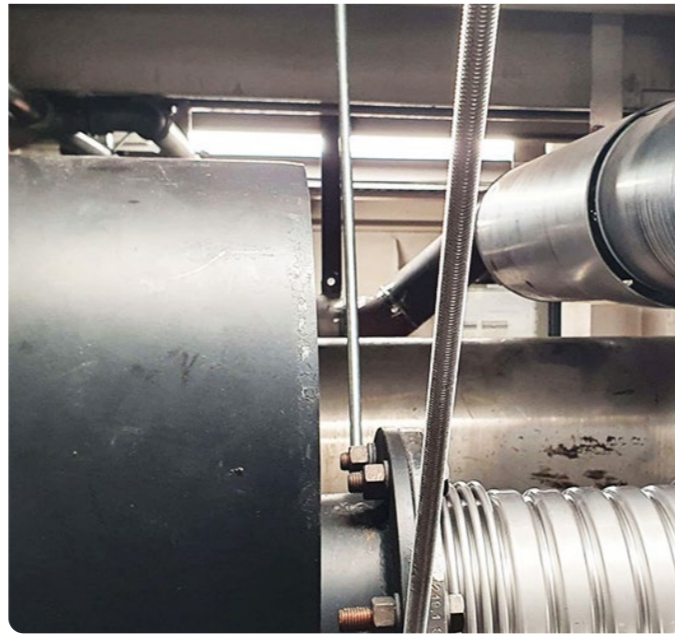
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Sound Attenuation for the Marine Industry

Sound attenuation is the process of reducing noise levels in various environments to create quieter and more comfortable spaces.

At Vibratec, we specialize in providing effective solutions for sound attenuation across marine applications. Our comprehensive range of products includes silencers, louvers that control airflow while reducing noise transmission, and noise enclosures designed to isolate noisy equipment and processes.

Whether you're looking to comply with noise regulations, enhance working conditions, or reduce environmental impact, our sound attenuation solutions offer reliable performance and exceptional noise reduction capabilities. Explore our range to find tailored solutions for your specific noise control needs.



Exhaust Bellows



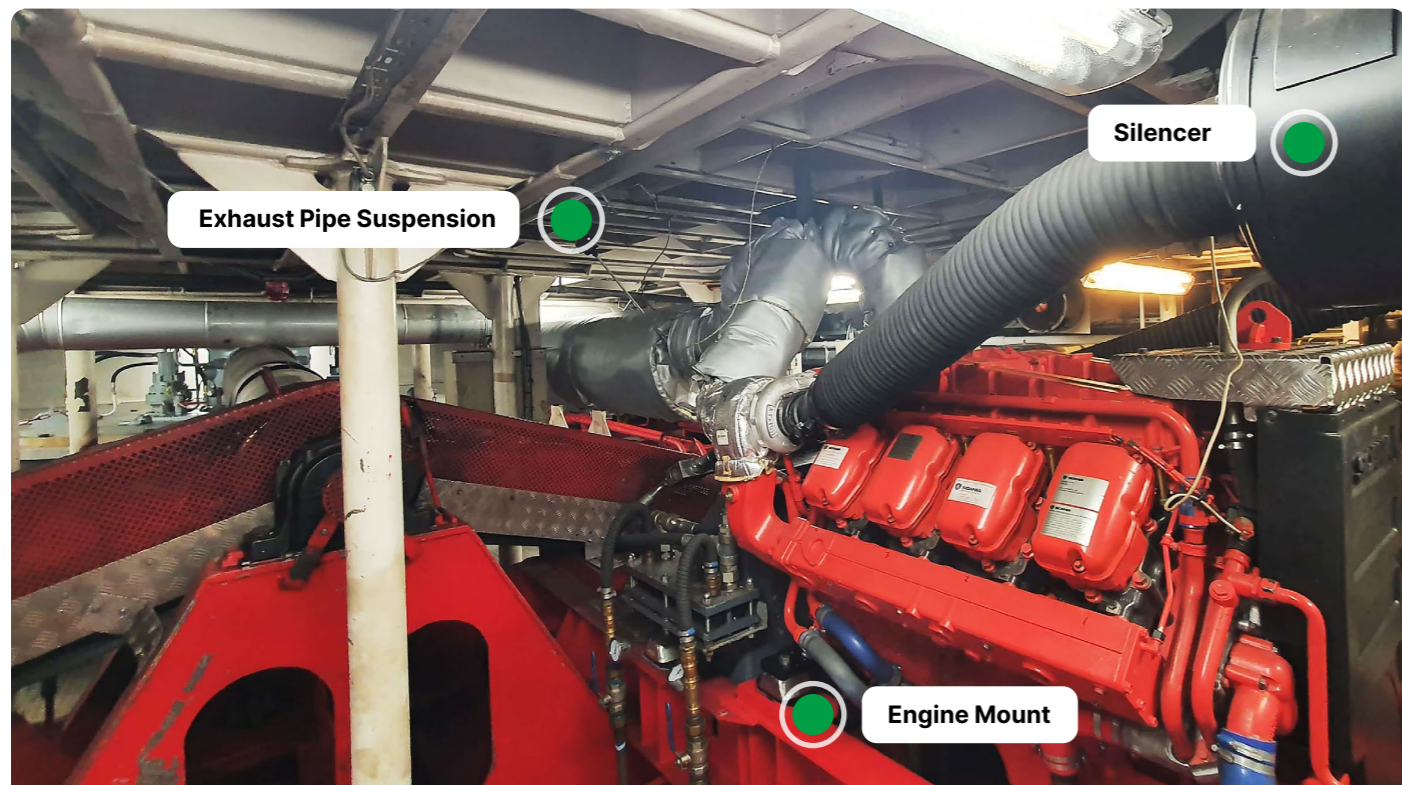
Acoustic Louvers



Noise Enclosures



Silencers



Pipe Suspension

Vibratec offers complete exhaust pipe suspensions. Our all-metal products are maintenance free and have long service life in most harsh environments.

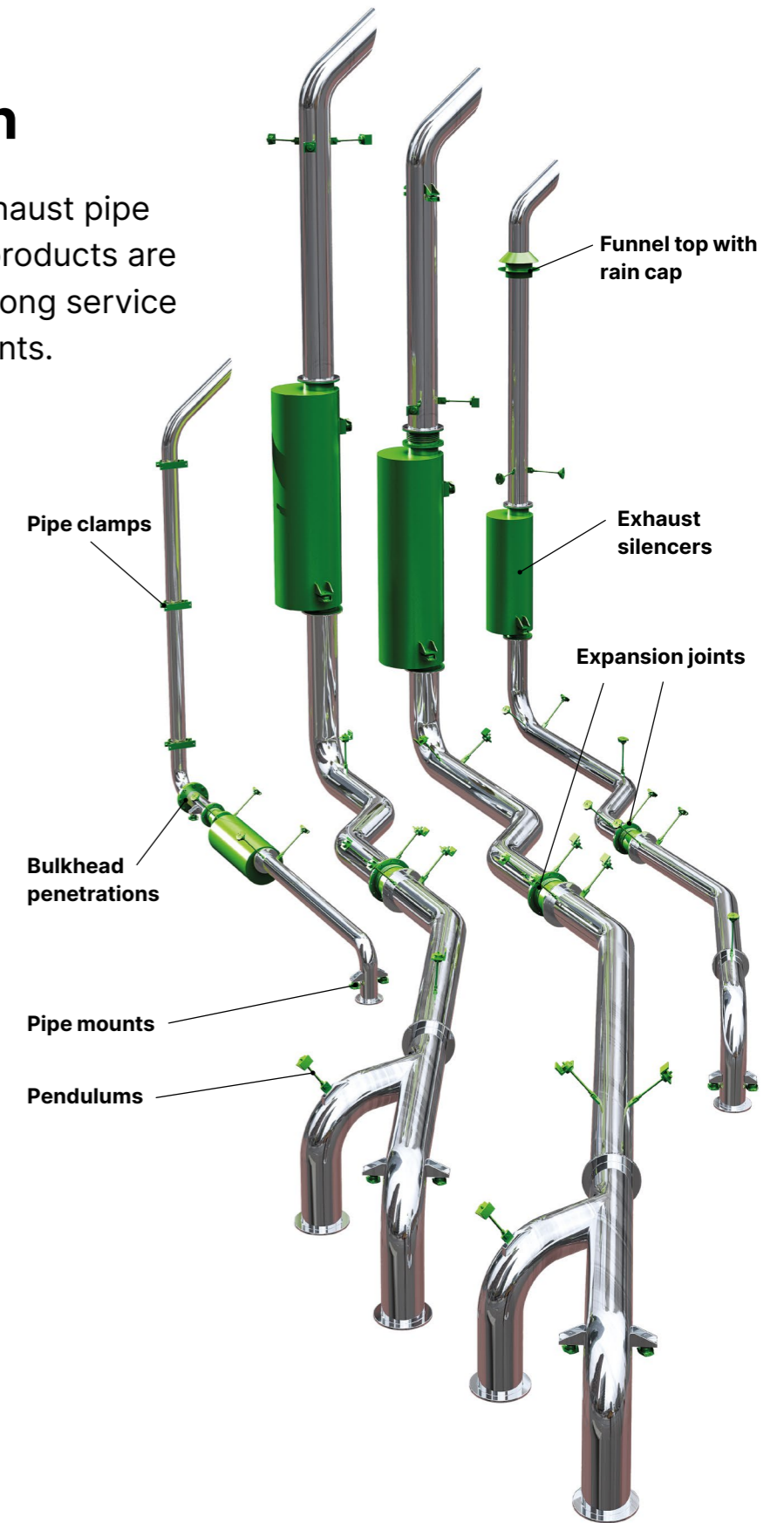
- High temperatures
- Oils
- Corrosion
- UV-light

Vibrations in pipe systems can lead to resonant problems and fatigue in pipes and structures. These problems can be prevented by correctly dimensioned and positioned supports and bellows.

Vibratec can supply different types of vibration isolated pipe supports completely in AISI316 or higher quality if needed:

- Fixed and sliding supports
- Pendulums
- Pipe clamps
- Expansion Joints

The pipe vibrations may be further reduced using additional pipe dampers. Vibratec offer solutions with friction dampers that also can be used in combination with vibration isolators.



Exhaust Bellow VTAS



Metal Pendulum VT345P



Metal Pendulum VTCI-300F-P & VTCI-700F-P



Pipe Clamps VTPC 100-900

Silencers and Emission Control

The standard reactive and absorptive silencers we have in stock can be combined to achieve high attenuations. In addition to the standard range we can also customize silencers based on specific customer demands.

Suitable silencers or combinations thereof are dimensioned based on:

- Demand for attenuation
- Distance from source
- Gas flow
- Max allowable back pressure
- Noise spectrum
- Length of end pipe

If the input noise spectrum from the engine is not available we can either calculate this based on rotational speed, effect and number of cylinders or find values from our data base of previous projects.

The silencers can if necessary be equipped with lifting lugs, mounting brackets, spark arrestor, catalytic converter or catalytic soot filter.



Silencer ADS FP-Series



Silencer DSA/FPR and DDA/FPD



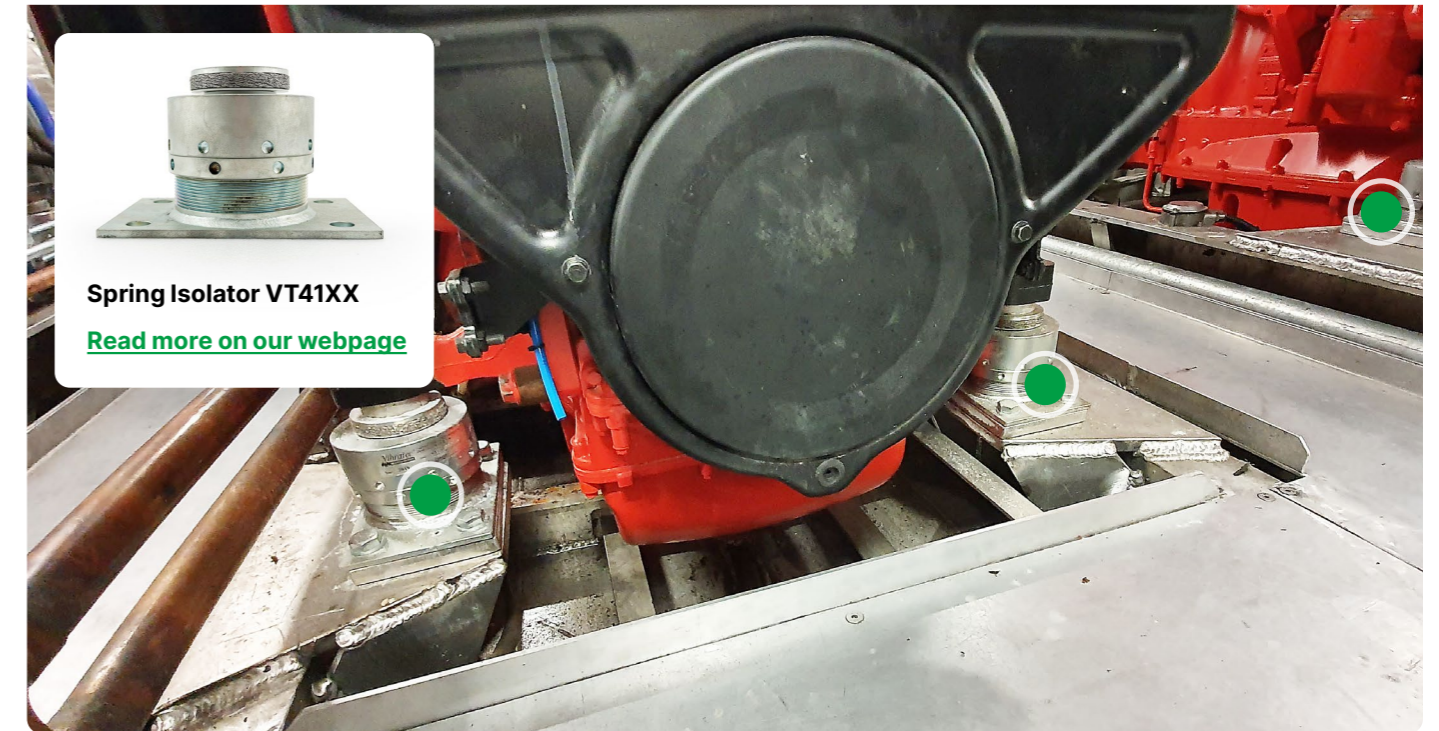
Catalyst MINE-X DC2 – DC18

Propulsion Engines and Generator Sets

Isolation of propulsion engines and generator sets can be done by using rubber or all metal isolators. Depending on the application we can choose from a vast array of different solutions designed to work the best with your equipment.

Vibratec dimensions an optimal solution with respect to

your engine effect, gear box, coupling and forces due to roll, pitch and heave. Data sheets for some of the products we use can be found below. In difficult cases we use customized solutions to reach the desired vibration isolation performance.



Elastomer Mounts



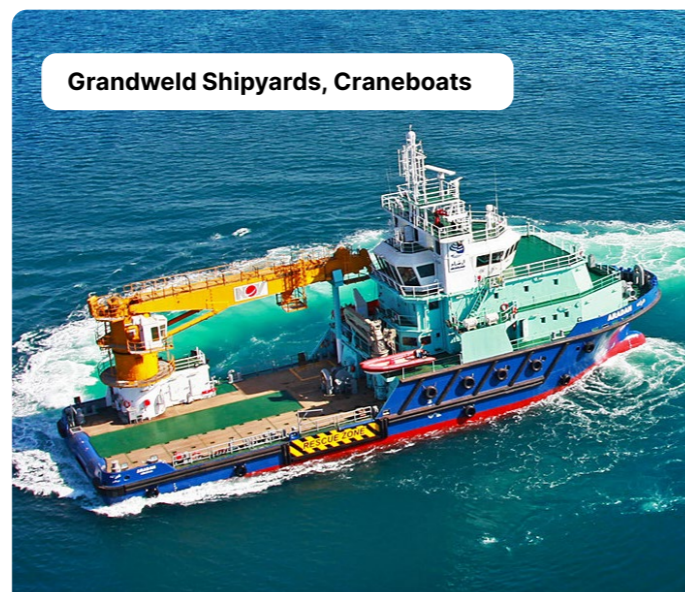
Spring Isolators



Spring Packages



Seismic Vessel HMS Sovereign



Grandweld Shipyards, Craneboats



CB90-class fast assault craft



Swedish Coast Guard patrol vessel

Sensitive Equipment

Using Vibratec's extensive range of wire rope isolators and elastomeric shock mounts, most equipment can be suspended successfully.

Examples of common applications are electronic boxes, computers, monitors, radar units and similar.

To use the correct equipment for the particular stress of Your case, Vibratec engineers performs the correct shock calculations.



Wire Rope Isolators - AXX

Used to reduce the transmission of vibration and noise, protect sensitive equipment from shock and impacts, and improve overall performance and longevity of machinery.

It consists of multiple strands of wire rope aligned in a specific configuration and enclosed in a protective casing.

Spring Isolator 7001

A series of isolators with almost constant natural frequency of 7-11 Hz (within the recommended load range). The isolator is a steel spring, cushions and bore made of 18/8 stainless steel. Housing in aluminium.

These mounts meet MIL-E-5400 and AIR 7306 standards.

Spring Isolator 7002

An all-metal and light weight isolator mount. This series of isolators have an almost constant natural frequency of 7-10 Hz. Spring and damping element in stainless steel. Housing, center axel and bottom plate in aluminium.

These mounts meet MIL-E-5400 and AIR 7303 standards.



Wire Rope Isolator AXX



Measurements & Surveys, Installation and Supervision

Vibratec has a number of employees that can undertake various installation jobs, measurements and surveys on offshore units. Thorough investigations and skilled personnel are vital for a correct design and installation, and in the end optimal function.

Typically Vibratec undertakes jobs within noise & vibration control as complete projects involving AVM's, exhaust & ventilation silencers, damping treatment of steel decks, pipe dampers, noise enclosures and TMD's (Tuned Mass Dampers).

A site survey prior to a project or preparation of budget for executing can also be performed by Vibratec. If additional measurements of noise and vibration are required Vibratec can perform vibration and sound measurements for internal use for engineering purposes or for control of obtained noise reduction.





VIBRATEC

Quiety Improving Your Environment

Engineering, Production and Installation

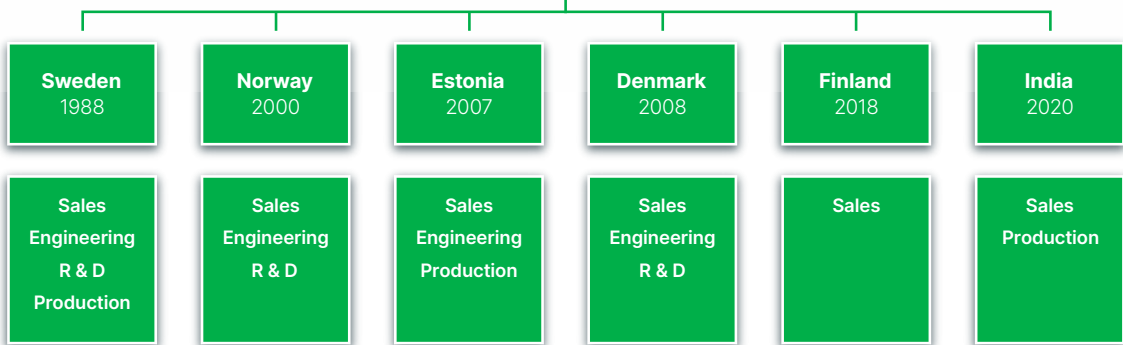
Vibratec has extensive experience, combined with the use of modern tools, when we design and manufacture tailor made solutions in all areas of vibration and noise reduction. Vibratec performs test to evaluate mechanical, physical and long term behaviour on materials as well as complete solutions.

Construction, Defence, Industrial, Marine, Offshore and Railway

Vibratec Akustikprodukter is one of Scandinavia's leading suppliers of noise and vibration solutions. Vibratec's ambition is to become the preferred choice for customers who need solutions to noise, vibration and shock problems. Vibratec produce and store many products for damping / isolation of vibration, shock and noise over a wide range of applications.



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