

VIBRATEC

Defence

Sound, Shock & Vibration Control



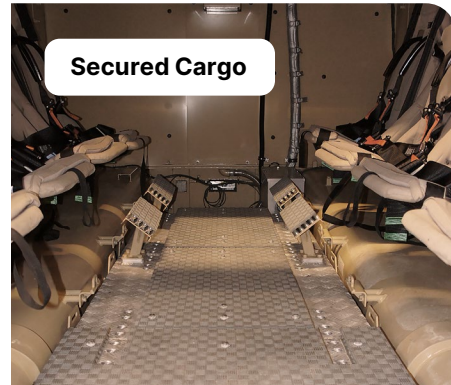
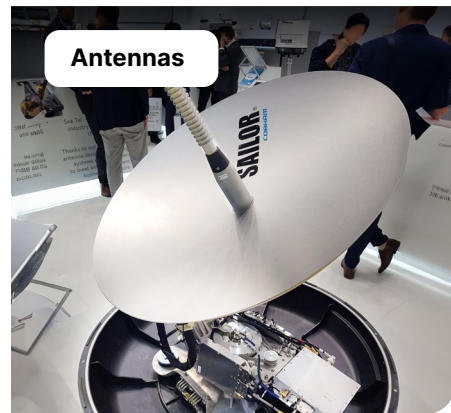
Defence

Quietly Improving Your Environment

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Vibration & Shock Control for the Defence Industry

Vibratec provides vibration and shock isolation solutions for the defence industry to ensure that mission-critical equipment operates optimally in harsh environments.



Read more about our products and solutions on our website!

With in-house design and production we can make custom made wire rope isolators and prototypes for tests on short notice.

Our shock protection solutions can be found on:

- Mine clearing vehicles
- Mine sweepers
- Combat boats
- Frigates
- Aircraft

Common applications for shock mounts

- Radar units
- Cabinets
- Monitors
- Floors
- Stretchers
- Pipes

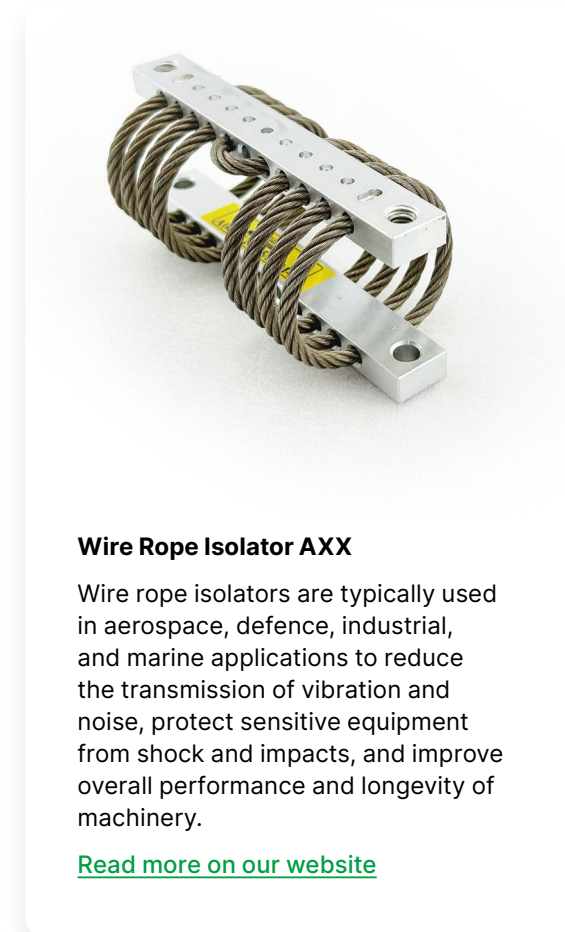
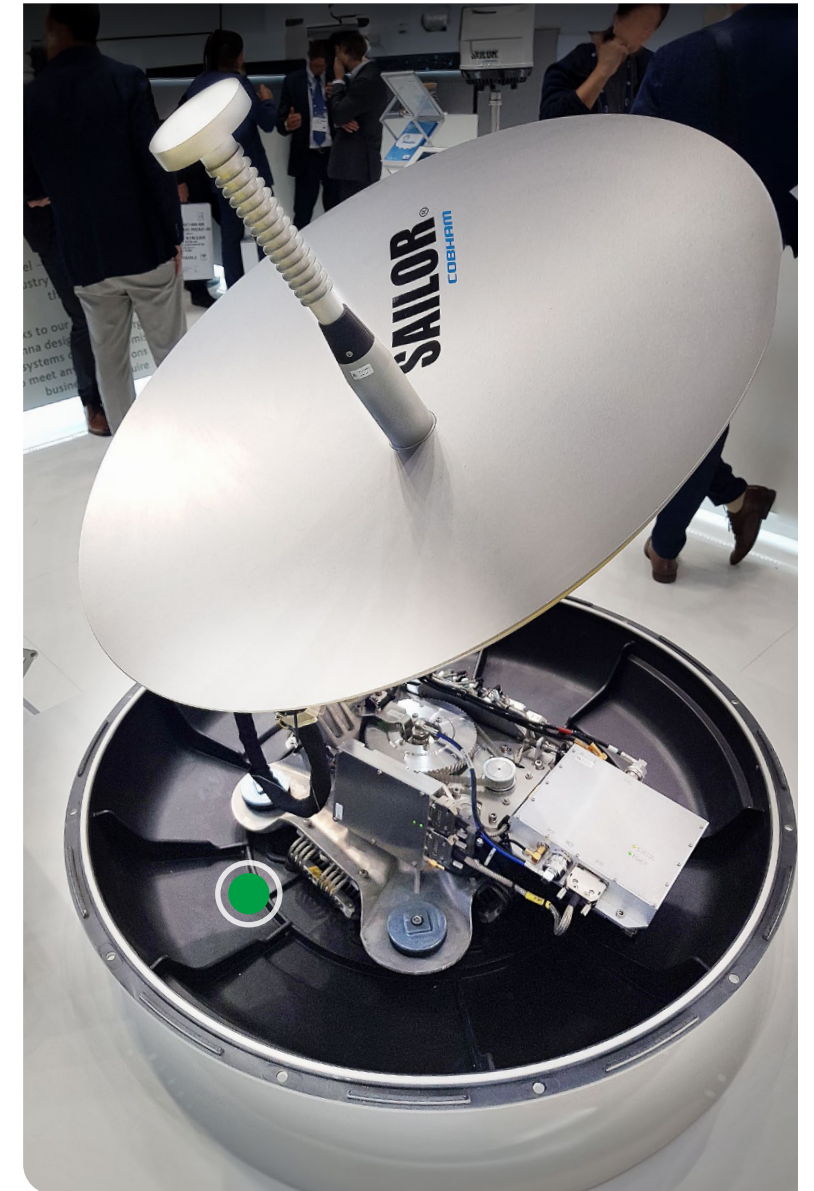
Antennas

In mobile applications, satellite antennas need to be secured from shock and vibrations. Normally three or four isolators are spaced evenly around the central axis of the antenna system.

Vibratec has developed several customized solutions to world leading antenna producers by designing tailor made wire rope isolators.

Wire rope isolators are very useful as they maintain excellent vibration isolation performance under maximum shock in severe environmental conditions or extreme temperatures. They have a long life span and can adapt to elastic displacement in all dimensions, allowing multi-directional vibration isolation.

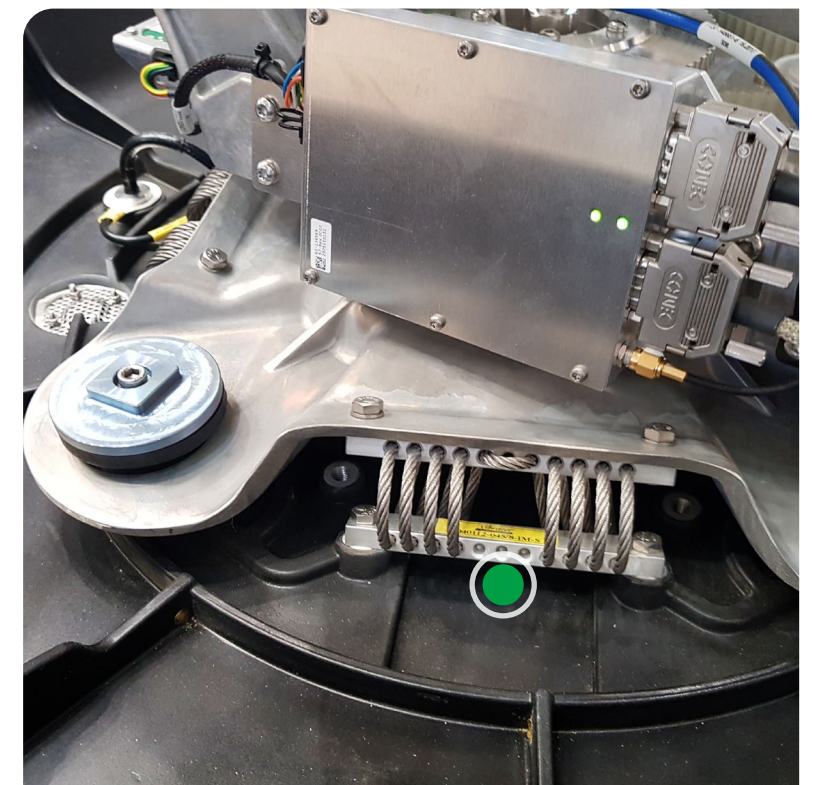
The isolators can be positioned outside of a domed antenna system so that the domed antenna itself can be as compact as possible to minimize its overall size.



Wire Rope Isolator AXX

Wire rope isolators are typically used in aerospace, defence, industrial, and marine applications to reduce the transmission of vibration and noise, protect sensitive equipment from shock and impacts, and improve overall performance and longevity of machinery.

[Read more on our website](#)



Vehicles & Secured Cargo

Transportation will cause random vibration from cargo interaction with vehicle suspension and with road and surface discontinuities.

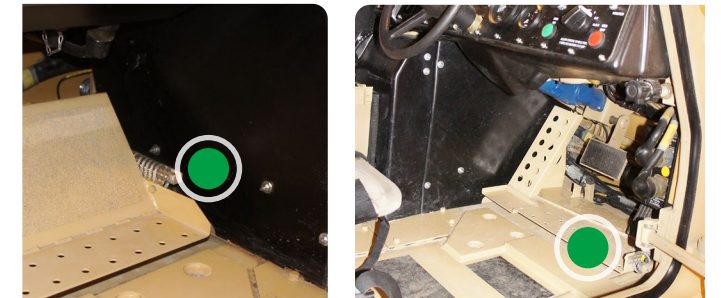

This is normally divided into truck transportation and mission/field transportation. The random vibration profile

is different along each axis; cargo or devices installed in transport vehicles may thus be affected by accelerations in various directions.

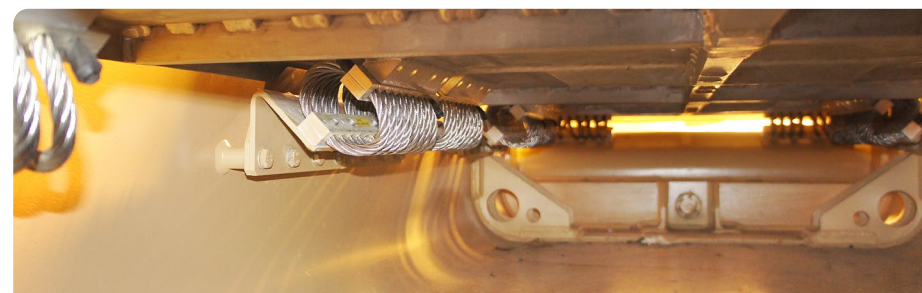
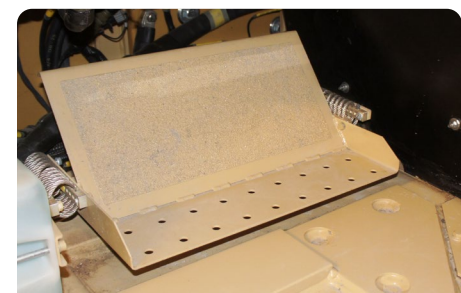
For this reason, the anti-vibration mounts installed must be thoroughly calculated to optimize the reduction of vibration or impact stress. Vibratec has several different products and systems available and we support in finding the best solution.

To protect people and equipment in military vehicles there are numerous applications that calls for shock or vibration isolation

- Shock protection for seats and floor
- Shock and vibration isolation of displays and electronics
- Suspension of cameras and antennas
- Weapon and ammo holders
- Engine mounts

Wire Rope Isolator AXX
[Read more on our website](#)



Naval Ships

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.

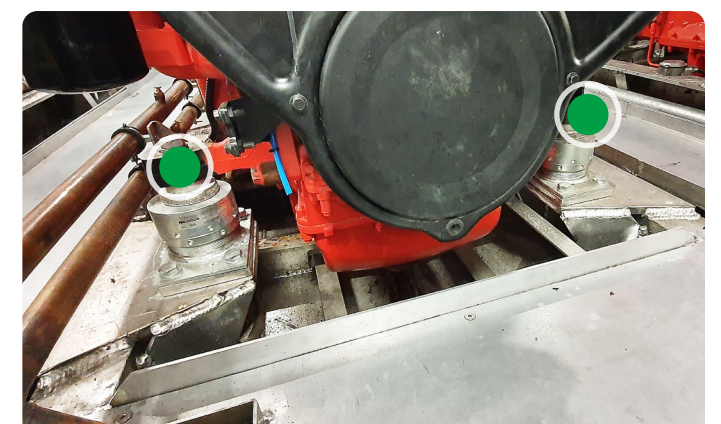
Vibratec dimensions an optimal solution with respect to your engine effect, gear box, coupling and forces due to roll, pitch and heave. In difficult cases we use customized solutions to reach the desired vibration isolation performance.



Spring Isolator VT41XX

A very soft spring isolator with integrated adjustable snubbing, shock damping. Designed especially for suspension of mobile equipment for example suspension of propulsion engines, generating sets, compressors, deck houses etc.

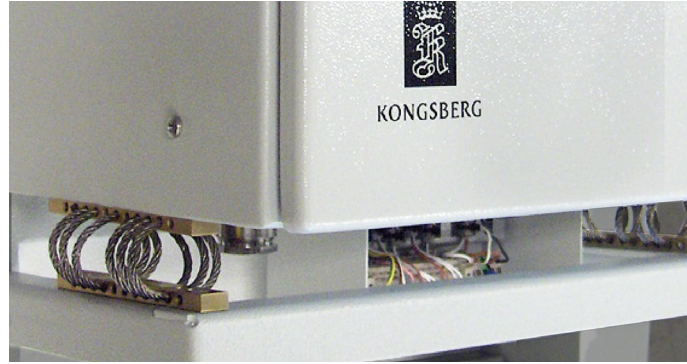
[Read more on our website](#)



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.

[Read more on our website](#)



Spring Isolator 7001

All metal isolator with resilient elements that include a steel spring, metal cushions and bore made of 18/8 stainless steel. The housing and flange made in aluminium.

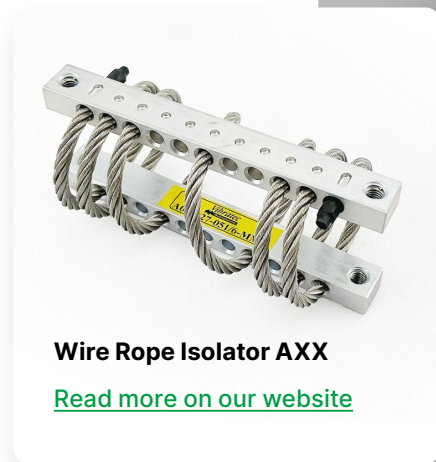
[Read more on our website](#)



Spring Isolator 7002

All metal isolator with resilient elements that include a steel spring, metal cushions and bore made of 18/8 stainless steel. The housing and flange made in aluminium.

[Read more on our website](#)



Wire Rope Isolator AXX

[Read more on our website](#)



Noise Enclosures

Sound isolating enclosures reduce the transfer of noise between the source and the recipient.

At Vibratec, we understand that every environment demands a unique solution to noise management. We offer both basic modular concept system and custom-made solutions tailored to meet specific requirements for sound reduction, fire resistance properties, and material choice.

Flexible Modular Designs

Our noise enclosures are easy to assemble and available in aluminum, galvanized or AISI 316 steel, with options for increased panel thickness for superior sound insulation.

Customization Available

We adapt our designs to meet your specific needs, ensuring our enclosures exceed your expectations.

Assured Quality

We measure final sound reduction post-assembly to guarantee performance.

Discover how Vibratec can help quiet your space. Contact us to discuss your needs and find the ideal noise control solution!

[Read more on our website](#)



Spring Isolator VT41XX

[Read more on our website](#)



Wire Rope Isolator

Wire rope isolators are typically used in aerospace, defense, industrial, and marine applications to reduce the transmission of vibration and noise, protect sensitive equipment from shock and impacts, and improve overall performance and longevity of machinery.

A wire rope isolator is a device used to provide shock and vibration isolation for equipment and machinery. It consists of multiple strands of wire rope aligned in a specific configuration and enclosed in a protective casing.

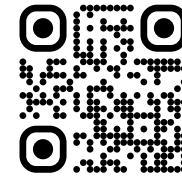
Product Characteristics

- No aging
- Corrosion resistant
- High inherent damping
- Very low amplification at resonance
- Severe shock attenuation
- Wide temperature range (-180°C to +300°C)
- Maintenance free

Product Applications

- Resilient Suspensions meeting Military Standards
- Isolation of Sensitive Electronic Equipment
- Isolation of Generators, Pumps and Compressors
- Exhaust System Suspension
- Isolation of Cabinets, Containers, etc.
- Protection of Equipment during Transport
- Extreme Temperature Applications

[Read more about our different wire rope isolators on our website!](#)



VIBRATEC

Quiety Improving Your Environment

Engineering, Production and Installation

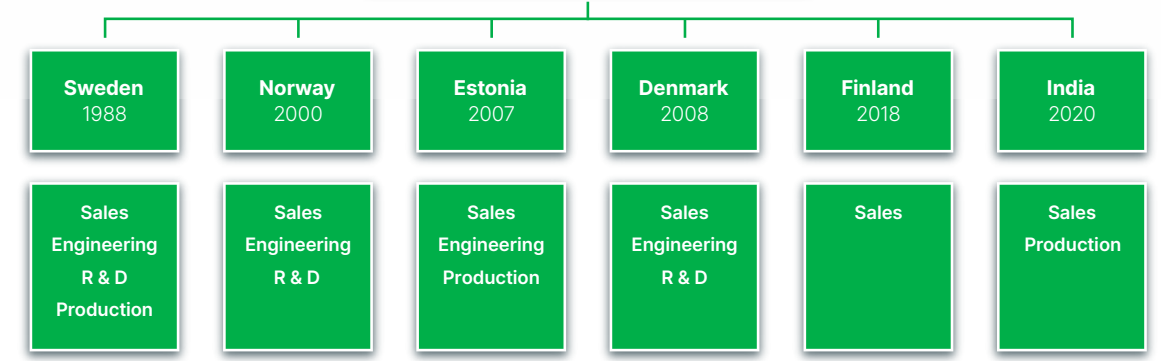
Vibratec has extensive experience, combined with the use of modern tools, when we design and manufacture tailor made solutions in all areas of vibration and noise reduction. Vibratec performs test to evaluate mechanical, physical and long term behaviour on materials as well as complete solutions.

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 and isolation of vibration, shock and noise over a wide range of applications.



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