

Akustik +
sylomer[®]
by getzner



ISOLATION OF GENERATOR SETS

AMC
MECANOCAUCHO

ABOUT AMC MECANOCAUCHO

Aplicaciones Mecánicas del Caucho (AMC) is a company that designs and produces anti vibration mounts as well as noise insulation composites for the industrial and building sectors.

Since 1969 we have been developing noise and vibration solutions for a wide range of applications. To meet the demands of each project, our products combine the properties of different isolating materials, such as rubber, metal, springs and Sylomer®.

Our dedicated engineering team are on hand to offer technical support with vibration calculations and product advice. On our website mecanocaucho.com you will find access to an extensive range of technical data for our products as well as calculation tools such as our Vibration Isolator Pro. This tool allows the input of your system specifications and provides a recommendation for the anti vibration mounts that meet the requirements of your project in terms of natural frequency or vibration isolation.

Our engineers travel throughout the world doing vibration measurements and providing engineering service to our customers. With a wide variety of customers served from across the world, we are ready to provide you with a customized solution for your noise and vibration problems.

We test our products in our own laboratory and we keep a large stock of products for a quick delivery.



Isolation of Gensets

QUALITY



COMMITMENT TO QUALITY

Quality control in all production processes.
Official type approval and management's certificates



NATO NCAGE 0230 B



Marine approval certificate
Cones with fixation
flange-Marine



ISO 9001:2015



ISO 14001:2015



Marine approval certificate
BRB-BSB-Marine Lloyd's



Marine approval certificate
BRB-BSB-Marine ABS



Marine approval certificate
BRB-BSB-Marine BV

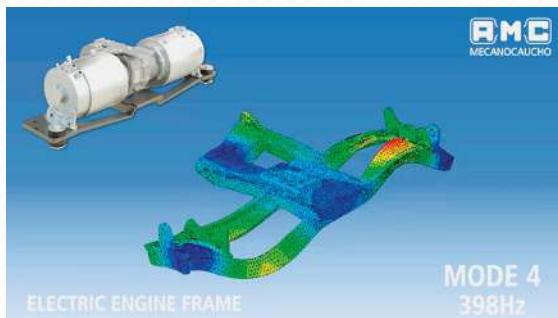
ENGINEERING AND MANUFACTURING

In house multi-axis dynamic testing machines



Isolation of Gensets

SOFTWARE AND NVH MEASUREMENT EQUIPMENT



STRUCTURAL ANALYSIS SOFTWARE

Our engineering team uses finite element analysis to analyze the structural stability of parts at different frequency modes.

This reduces the risk of resonance occurring in application.

MORE INFO



6 DEGREE OF FREEDOM CALCULATION SOFTWARE

Customers have access to our proprietary six degrees of freedom calculation software.

There they can preform simulations of anti-vibration mount performance with their system.

MORE INFO



NEW

NVH MEASUREMENT PRO KIT

The Pro kit provides an extensive range of noise and vibration data to be measured. This wireless unit allows simple data collection for gensets applications.

Sensors included are:

- 2x Triaxial accelerometers
- 1x Tachometer
- 1x Microphone
- 1x Modal hammer



VIBRATION ISOLATOR PRO Bluetooth Accelerometer

The bluetooth accelerometer has been developed to work in conjunction with the AMC MECANOCAUCHO® free of cost app Vibration Isolator Pro for Android and iOS.



VIP ACCELEROMETER
RESERVATION

SCAN ME





Different solutions
for your application with
AMC mounts for gensets

Isolation of Gensets

Anti-Vibration Mount Overview

MORE INFO



RUBBER TO METAL

BRB ANTI VIBRATION MOUNT

- Fail-safe protection for mobile applications.
- Top metal hood protects the rubber from damage from oils, fluids, Ozone...
- Baseplates are engraved with the type and hardness.



RUBBER TO METAL

MARINE

- Alternate stiffness in each direction designed to isolate engine vibrations.
- Interlocking metals offer a fail-safe design



SPRING +Sylomer®

VIBRABSORBER + SYLOMER

- High vibration isolation for static genset applications.



SPRING +Sylomer®

ANTI-SEISMIC VIBRABSORBER

- Suitable for installations which require interlocking metals which provide a fail safe design
- Height adjustable for onsite levelling.





SEE MORE ABOUT MARINE MOUNT



SEE ALL VIBRABSORBER SPRING MOUNTS



SEE ALL VIBRABSORBER ANTI-SEISMIC SPRING

MORE INFO

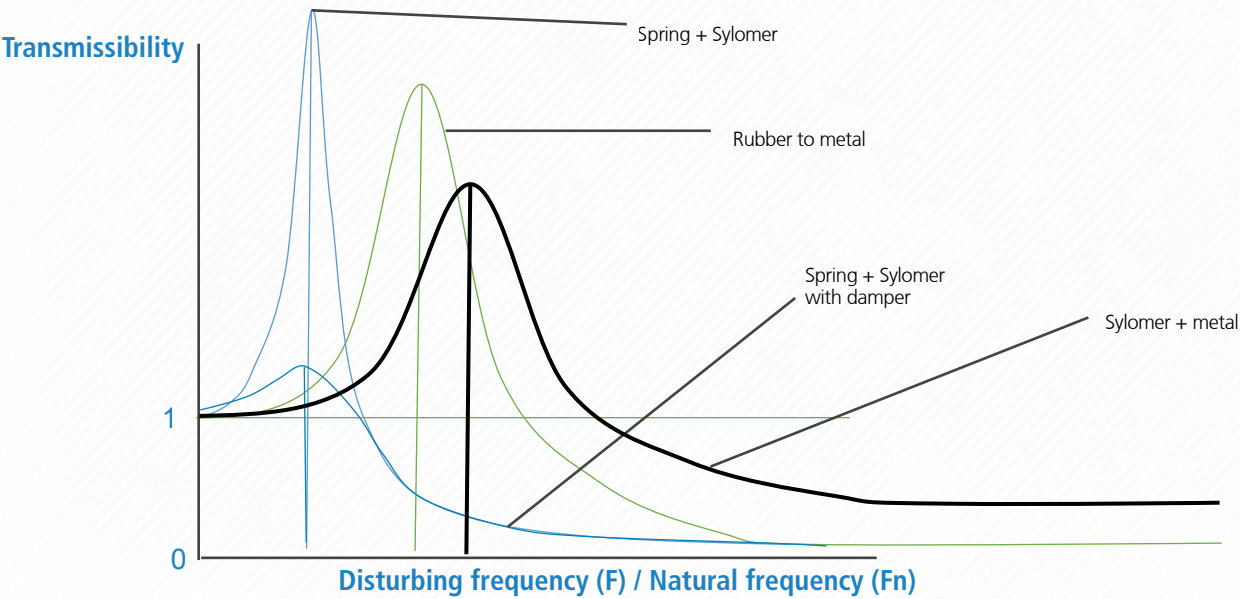


SPRING +Sylomer®

ANTI-SEISMIC WITH VISCOUS DAMPER

- Allows damping ratios above 30%
- Resistance against extreme corrosive environments
- High vibration isolation for static genset applications







Single-Cylinder GENSETS

ISOLATION OF GENSETS

Single-cylinder gensets are **compact, efficient power sources often used for smaller applications**. However, their design can result in significant vibration during operation, which can cause noise, wear, and discomfort.

Anti-vibration mounts are crucial to dampen these vibrations, improving performance, reducing noise, and extending the lifespan of the equipment.

BRB Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

V-shaped Generator mount

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

Solid Cone Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

Mobile GENSETS

ISOLATION OF GENSETS

Mobile Gensets are **portable generators** used in various industries to provide **reliable power in remote locations** or during power outages.

Due to their mobility and frequent transport, these units are subject to **significant vibrations**, which can lead to noise, equipment wear, and **structural damage**. Anti-vibration mounts minimize vibrations, ensuring smoother operation, protecting components, and reducing noise.

BRB Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

BSB Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

Solid Cone Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

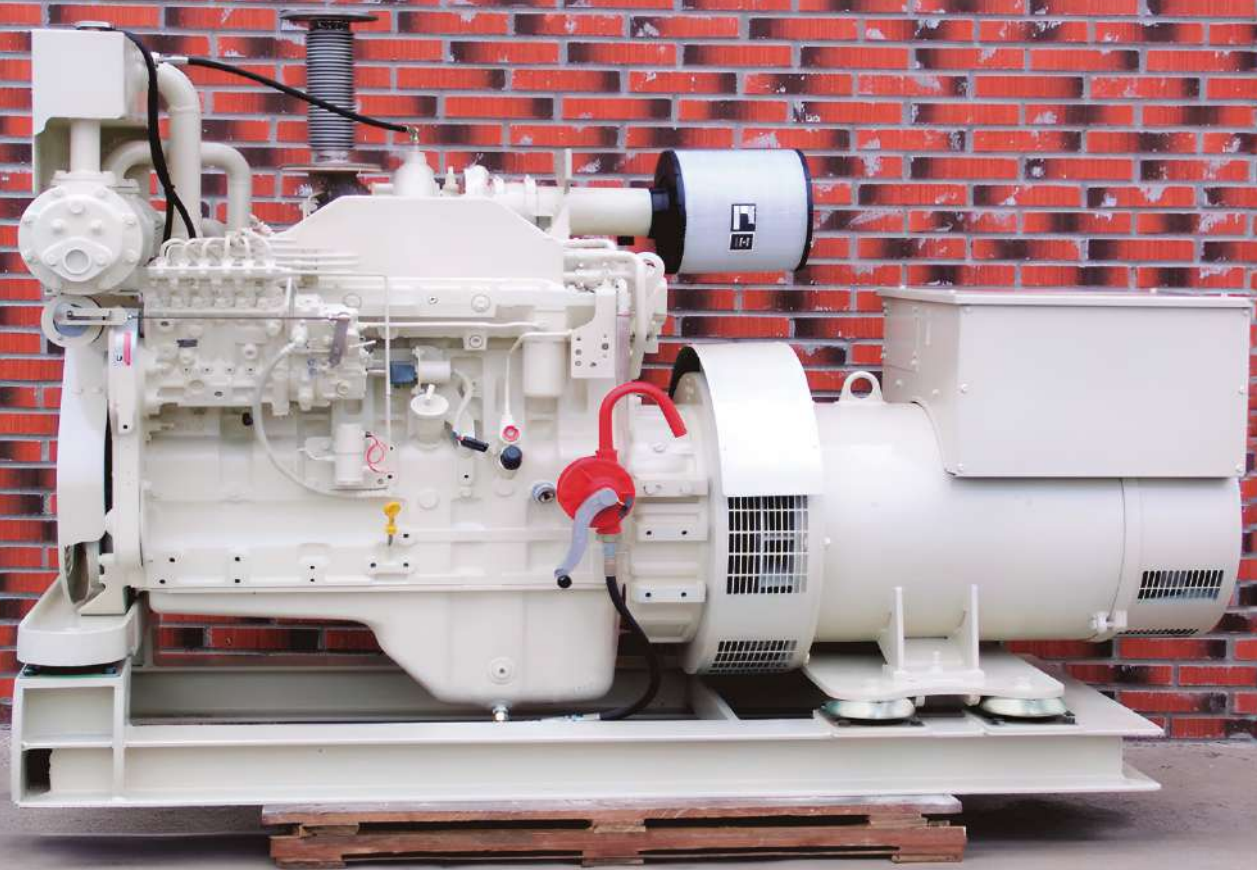
Hydraulic Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT





Marine GENSETS

ISOLATION OF GENSETS

Due to the **harsh marine environment**, vibrations generated by these engines can lead to several issues, including **noise, structural damage, and decreased comfort for passengers and crew**. To mitigate these effects, it is essential to install anti-vibration mounts

These **mounts isolate and reduce vibrations** from the generator, prolonging equipment life, enhancing safety, and ensuring a quieter, more **comfortable onboard environment**.

BRB Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

Marine Engine mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

BRBX Rubber mounts

ANTI VIBRATION MOUNT



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MOUNT

BSB Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

V-Shaped Marine Engine mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

MD Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

Rooftop GENSETS

ISOLATION OF GENSETS

One useful technique in vibration isolation of gensets is the use of an inertia base. Inertia bases lower the center of mass of the system, providing increased stability and evening out the weight distribution on the mounts.

This results in a more uniform vibration isolation and reduces the risk of damaging the equipment or mounts due to irregular loads and vibrations. The images below show an example of using an inertial base on a rooftop genset to improve its stability.

Anti-seismic visco Spring+Sylomer

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

FZH Spring+Sylomer

ANTI VIBRATION MOUNT



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MOUNT

AMC Vibrabsorber

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

Anti-seismic Vibrabsorber

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

CASE STUDY
LINK





Emergency GENSETS

ISOLATION OF GENSETS

Emergency gensets provide **critical backup power during outages**, ensuring the continuous operation of essential systems. Due to the nature of these **installations it is essential** that they are reliable when a sudden power requirement is needed.

Selecting the **correct mounts** for an **emergency generator** is critical to ensure that there are no issues which can lead to machine downtime.

BRB Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

Marine Engine mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

BSB Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

Anti-seismic visco Spring+Sylomer

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION
MOUNT

Seismic APPLICATIONS

ISOLATION OF GENSETS

Careful consideration should be taken for installations where there is a **possibility for ground borne seismic vibrations**. A detailed analysis of these vibrations should be performed to understand the **structural forces** which can result.

This is essential to ensure that the generator is not damaged during unwanted activity such as earthquakes, the continued operation of the equipment is often crucial during these events.

BRB Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION MOUNT

BSB Rubber mounts

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION MOUNT

Anti-seismic visco Spring+Sylomer

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION MOUNT

Marine Engine mounts

ANTI VIBRATION MOUNT



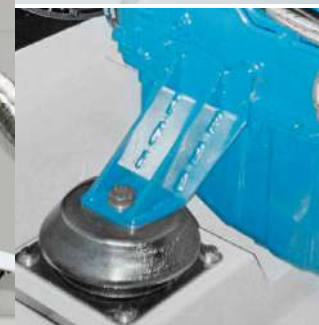
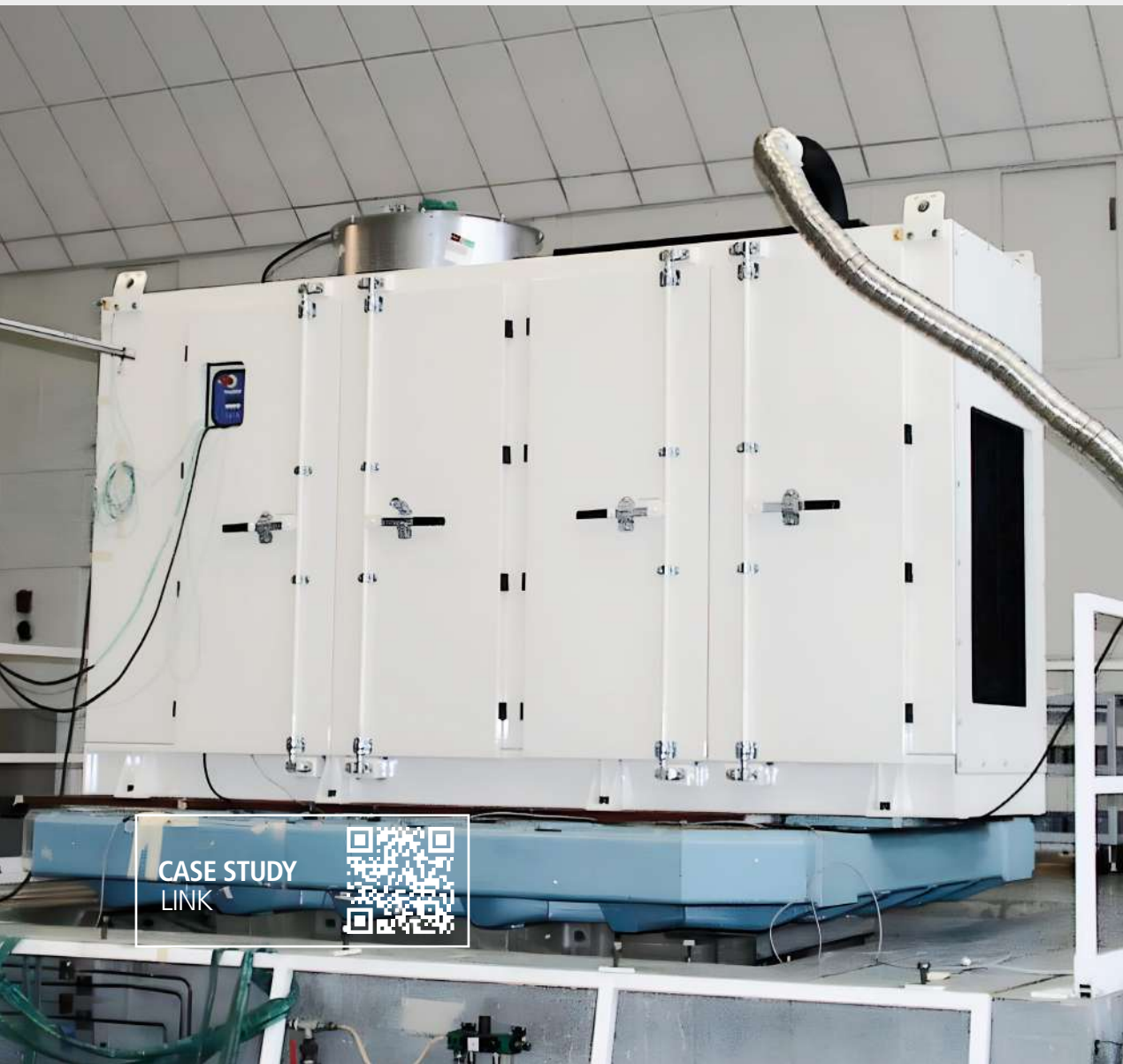
SEE ANTI VIBRATION MOUNT

Anti-seismic Vibrabsorber

ANTI VIBRATION MOUNT



SEE ANTI VIBRATION MOUNT



Isolation of Gensets

AKUSTIKABSORBER FOAMS

MORE INFO



PYRAMIDAL FIRE-RESISTANT

AKUSTIKABSORBER SOUND INSULATION

COMPOSITION:

M-1 class fire-resistant melamine honeycomb foam

THICKNESSES:

30mm 50mm



PAVIABSORBER

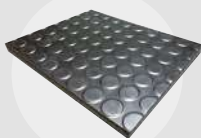
AKUSTIKABSORBER
SOUND INSULATION

COMPOSITION:

Antiskid Mat, absorbent polyethylene foam and visco elastic heavy mass of 5kg / m² interleaved.

THICKNESSES:

15mm



SEE MORE ABOUT
PAVIABSORBER

AGLO PI

AKUSTIKABSORBER
SOUND INSULATION

COMPOSITION:

Fiberglass facing and bound polyurethane foam with a density of 150 Kg/m³.

THICKNESSES:

15mm 25mm



SEE MORE ABOUT
AGLO PI

FAIM

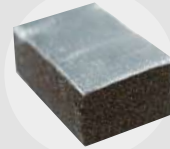
AKUSTIKABSORBER
SOUND INSULATION

COMPOSITION:

Aluminium facing with fibreglass support, M-1 fire-resistant polyurethane foam, 5 Kg/m² viscoelastic mass.

THICKNESSES:

15mm 25mm



SEE MORE ABOUT
FAIM

MORE INFO



VISCOELASTIC LAYERS

AKUSTIKABSORBER SOUND INSULATION

COMPOSITION:

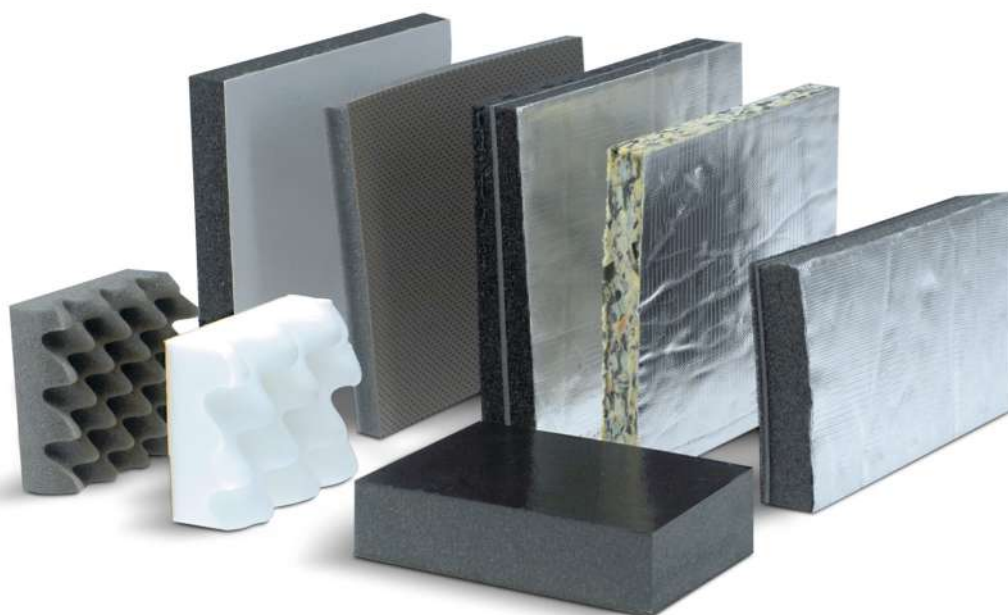
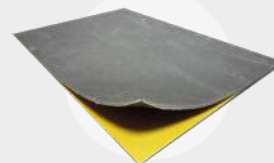
Rubber elastomer compound mixed with Barite.

THICKNESSES:

MP5: 2.6mm / MP 10: 5mm

SHEETS:

1230x1030 mm





We perform
**ON-SITE VIBRATION
MEASUREMENTS**

 Find your local AMC representative



FIND IT HERE



ACOUSTIC ISOLATOR PRO

With the acoustic Isolator Pro app, you can perform sound measurements of machines and receive isolation recommendations and results.

Download the app!



Acoustic Isolator Pro Video

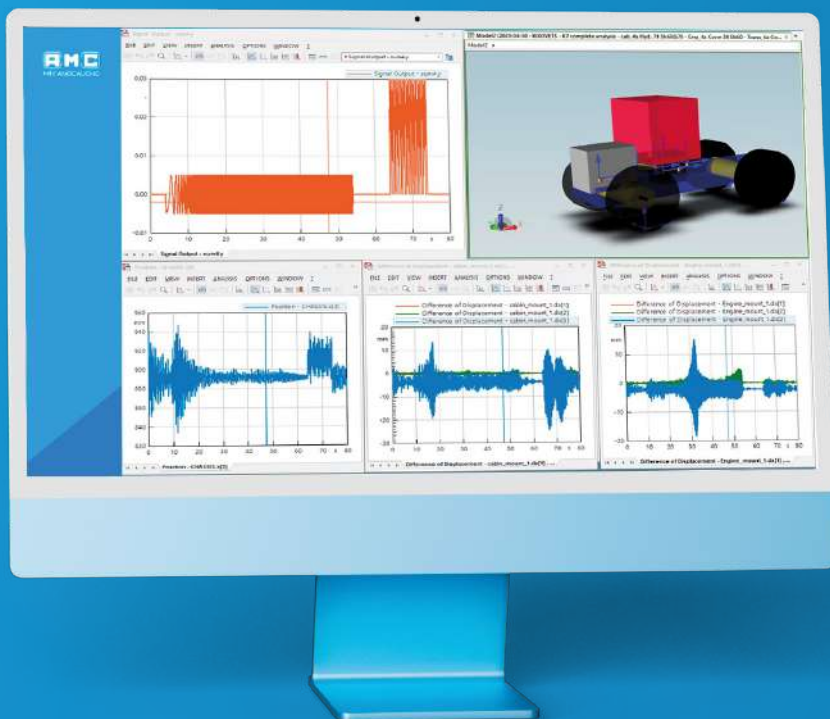


6 DEGREE OF FREEDOM

Calculation Software

Customers have access to our proprietary six degree of freedom calculation software. Multi body simulations can be performed to analyse shock and vibration, allowing the correct AMC solution to be determined.

MORE INFO





Our **expertise lies** in the **building** and **industrial acoustics field**, with a dedicated **technical department**. We have skilled engineers situated across various countries who are prepared to comprehend your specific situation and offer suitable solutions. Don't hesitate to **get in touch with our main office or explore our websites** and social media platforms.



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