

SEÑOR TBMF-ADAPTA 75 A (Anti-Tilt)

HYBRID DAMPER WITH ANTI-TILT SYSTEM DEVELOPED FOR HVAC EQUIPMENTS

This is a high-performance, unique, and updated **HYBRID** damper. It is manufactured with the most advanced technology and designed to eliminate all solid-borne noise.

The innovative **TBMF/ADAPTA ANTI-TILT** model represents a significant advance in the field of safety, thanks to its patented central anti-tilt axle (**P.T.201330255**). This axle, built with high-quality stainless steel, ensures optimal axial compression of the helical steel spring, allowing for effective functionality in various conditions. The integration of rubber at each end of the axle not only adds an element of flexibility and impact absorption but also improves the connection to the **FUSIÓN** locking system, which is designed to prevent the HVAC unit from detaching due to external forces. This system is especially relevant in scenarios with severe weather, such as **hurricane winds**, severe storms, and minor **seismic** movements, making this damper an essential component for the outdoor installation of HVAC equipment.

Additionally, one of this product's outstanding features is its square base, measuring 8 cm per side, which enhances equipment stability by distributing weight evenly. This base is made from **ZAMAK-5**, an alloy that combines zinc with aluminium, magnesium, and copper, offering exceptional resistance to impact and deterioration. To increase its durability against corrosion, the entire structure is coated with **INTERPON 700**, an epoxy and polyester resin that guarantees rust resistance for over **2000 hours** under saltwater exposure conditions. This specific coating is crucial, especially in coastal environments where air salinity can cause accelerated material wear. In summary, the **TBMF/ADAPTA ANTI-TILT** is a benchmark in safety and durability for the HVAC industry, ensuring optimal performance against the challenges of the outdoor environment.

Preview in Augmented Reality



Scan the QR code to open this 3D Model on your iOS or Android device.



I+D+i

*System registered with the Spanish Patent and Trademark Office.

REF	COLOUR	APPLICATION FIELD	LOAD (Kg) MIN-MAX	METRIC MIN-MAX
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SE-TBMF-ADAPTA 75 A



Cooling

30 - 75

8

DIAMETER
ANTI-TILT AXLE

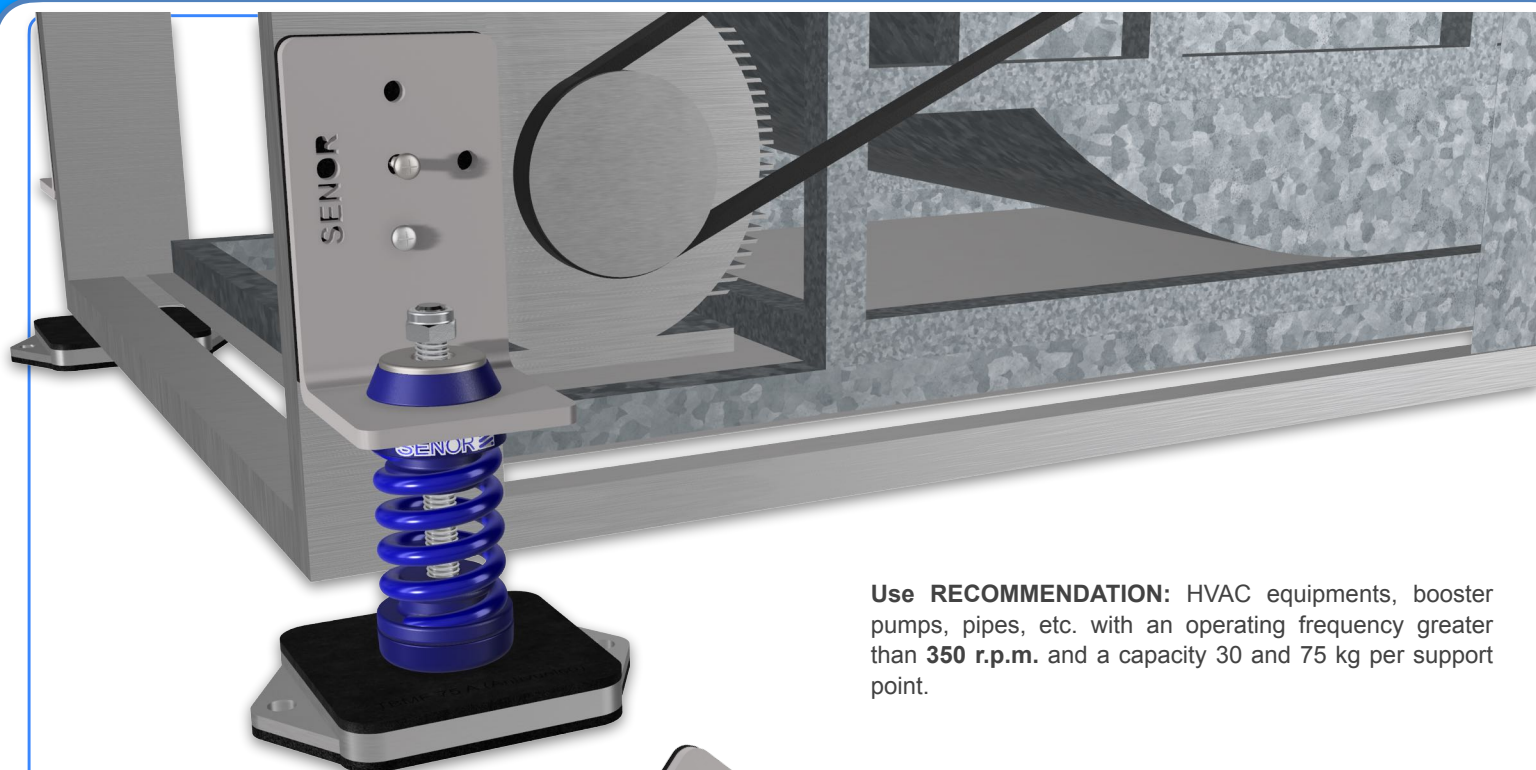


M8

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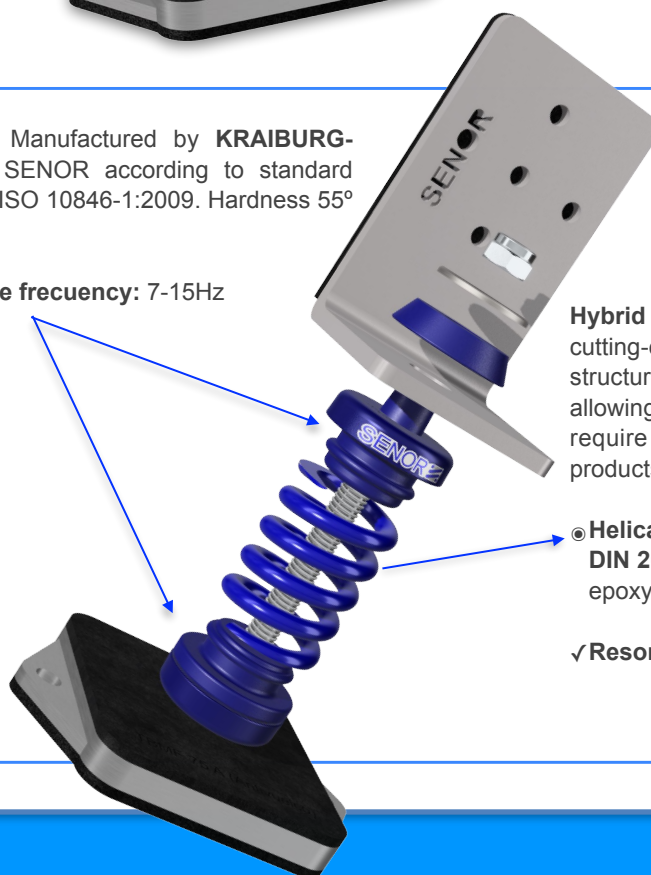
SEÑOR Products
Split DOMESTIC



Use RECOMMENDATION: HVAC equipments, booster pumps, pipes, etc. with an operating frequency greater than **350 r.p.m.** and a capacity 30 and 75 kg per support point.

● Polymer: Manufactured by **KRAIBURG-TPE** for SEÑOR according to standard UNE-EN ISO 10846-1:2009. Hardness 55° Shore A.

✓ Resonance frequency: 7-15Hz



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Hybrid System: This innovative system is achieved by fusing a cutting-edge polymer with a helical steel coil, creating a solid support structure. This combination maximizes efficiency and strength, allowing for flexibility in its application. It is ideal for industries that require lightweight, robust, safe, and acoustically unbeatable products.

● **Helical Spring:** Manufactured with steel wire according to standard **DIN 2095-UNE EN 10270** with an anti-rust finish and a metallic blue epoxy coating. Stiffness (**63,2 KN/m**)

✓ Resonance frequency: 3-7Hz

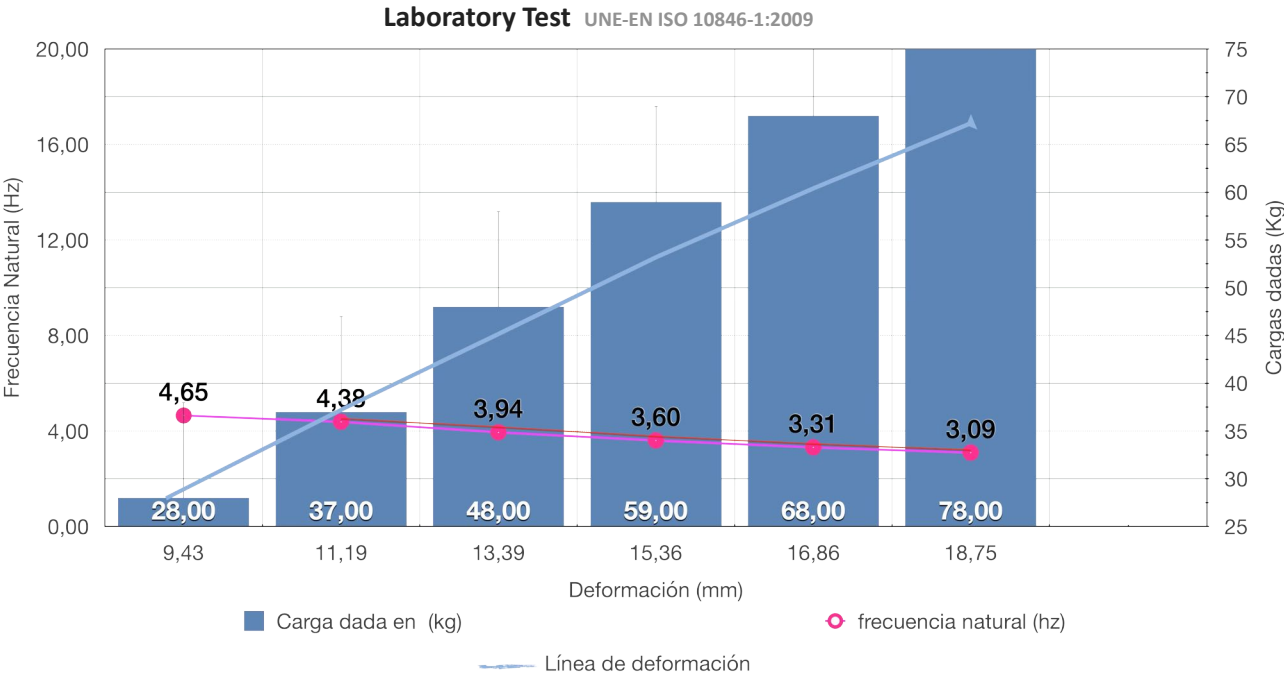
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Dynamic Behaviour and Axial Deformation

Steel helical springs exhibit dynamic stiffness equivalent to their static stiffness, making them ideal for applications that demand predictable mechanical properties. In contrast, viscoelastic materials exhibit more complex behavior. The dynamic stiffness of these materials never equals their static stiffness, as they absorb and dissipate energy, adapting to the frequency and magnitude of vibrations. To fully understand this phenomenon, the dynamic behavior of viscoelastic materials cannot be determined through theoretical calculations alone; it requires specific laboratory testing to ensure accurate data for industrial applications.

LOAD (Kg)	DEFORMATION (mm)	RESONANCE FREQUENCY (Hz)	SWEEP (Hz)	SWEEP (Hz)	% SOUNDPROOFING 20HZ	% SOUNDPROOFING 50HZ
28	9,43	4,65	20	50	94,29	99,13
37	11,19	4,38			94,96	99,23
48	13,39	3,94			95,96	99,38
59	15,36	3,60			96,65	99,48
68	16,86	3,31			97,18	99,56
78	18,75	3,09			97,55	99,62



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SEÑOR Products
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Dimensions

You'll be amazed by its performance! It's the perfect damper for designing split domestic machines. **Say NO to noise.**

Preview in Augmented Reality 



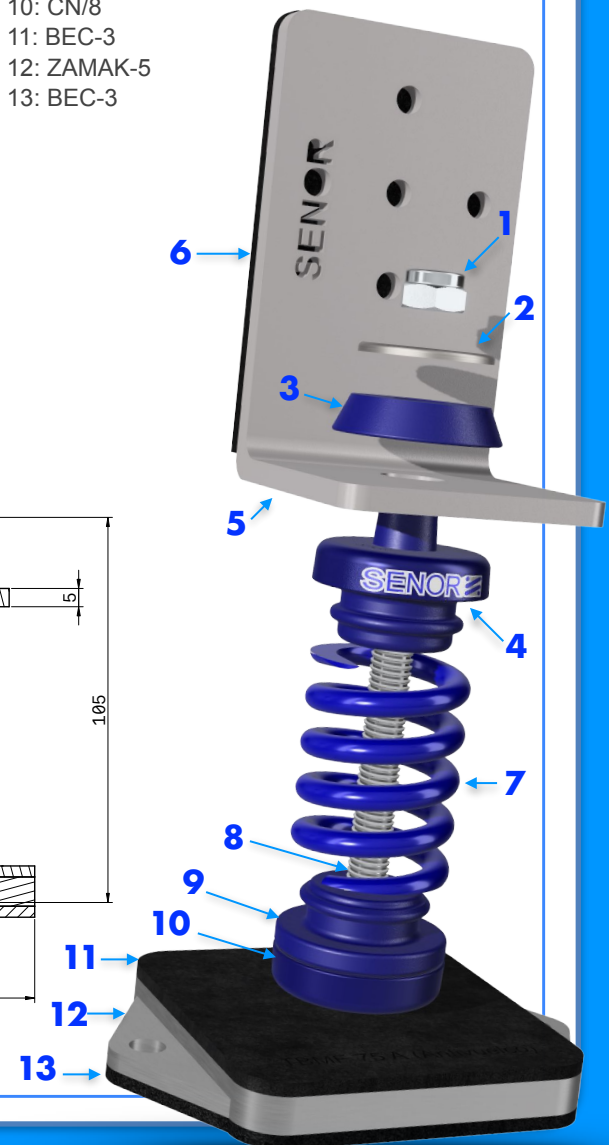
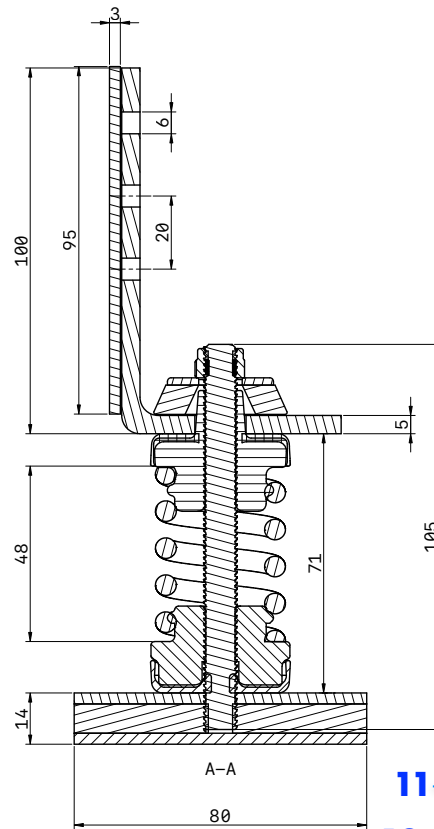
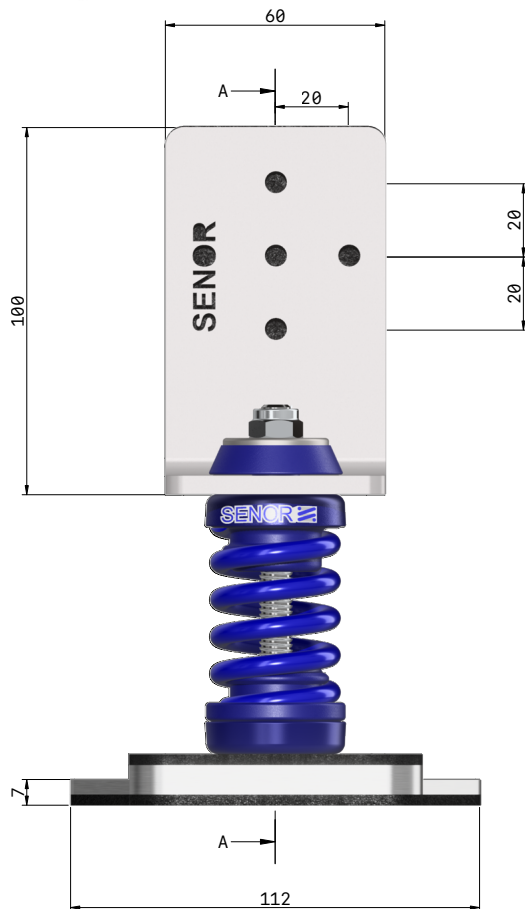
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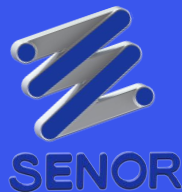
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MATERIALS:

- 1: STAINLESS STEEL A4/M8 LOCK NUT
- 2: STAINLESS STEEL A4/M8 WASHER
- 3/4: FUSION SYSTEM
- 5: STEELS275 JR
- 6: BEC-3
- 7: STEEL SPRING
- 8: ANTI-TILT AXLE
- 9: TC5/EXN RUBBER
- 10: CN/8
- 11: BEC-3
- 12: ZAMAK-5
- 13: BEC-3





SENOR TBMF-ADAPTA 75 A (Anti-Tilt)

KEY Features

The **TBMF-ADAPTA 75 A (Anti-tilt)** is the most potent damper on the market for supporting HVAC equipment with direct attachment to the slab. This damper is the present and future for noisy spaces.

Our **technical team** works every day to offer new **alternatives** for the future.

A: The TC5/EXN FUSION System is characterized by its design with a projecting collar, an ingenious innovation that prevents unwanted contact between the anti-tilt axle and the metal parts of the HVAC equipment. This is crucial for ensuring the durability and performance of the system in which it is used. This component not only acts as a physical separator but also plays a fundamental role in dampening vibrations. Its ability to effectively reduce vibrations in the medium and high-frequency range, expressed in Hz, makes it an ideal solution for applications where stability and smooth operation are paramount. Furthermore, its design ensures the correct seating of the spring's helical wire, which helps to optimize the overall function of the mechanism, preventing premature wear and extending the lifespan of the components involved.

B: The helical steel spring is distinguished by its capacity to efficiently eliminate any kind of pollution related to vibro-mechanical energy, especially in the low and medium frequency ranges (Hz). This type of spring is designed to absorb and dissipate unwanted vibrations, making it an excellent solution for applications where stability and noise control are essential.

SENOR Certify

Our exclusive line of **DOMESTIC SPLIT** products, designed specifically to support air conditioning units on both floor and various other surfaces, comes with an impressive guarantee of a service life exceeding 10 years. This extended durability is subject to two fundamental conditions: first, it is essential that the installation is carried out correctly, following the specific technical recommendations to ensure optimal performance. Second, it is crucial to avoid contact between our products and any type of chemical components that could cause premature material degradation. These precautions will help to maximize the performance and longevity of the air conditioning systems, ensuring they can operate efficiently for many years.

Preview in Augmented Reality ×



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Maximum SAFETY
Anti-Tilt Axle

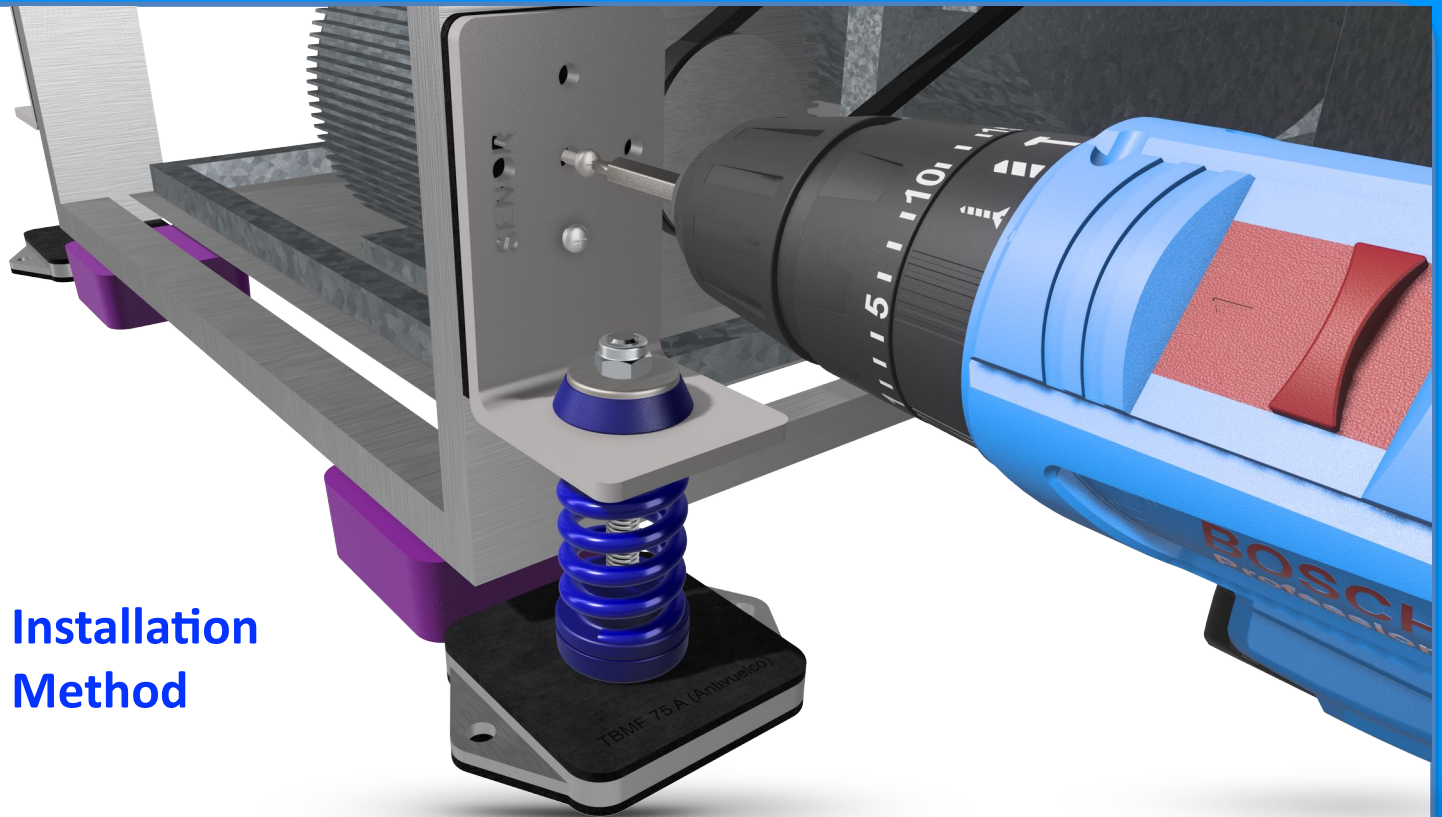
Maximum SAFETY
FUSION System



SEÑOR TBMF-ADAPTA 75 A (Anti-Tilt)



SEÑOR Products
Split DOMESTIC



Installation Method

1.

We carefully remove the product from its packaging, strategically placing it next to the equipment we wish to adequately protect from noises and vibrations that may affect its performance. Next, we proceed to secure the isolation device to one side of the equipment, ensuring that the space between both elements is minimized without altering the height of the equipment, so that it remains in the same original position. This technique not only optimizes the use of space but also ensures an efficient installation that maximizes the effectiveness of the noise and vibration reduction system.

2.

Once all the ends have been precisely secured, we will proceed to remove the old rubber mounts. This action is necessary to free the machinery from any unnecessary support, allowing the equipment to settle completely onto the new acoustic supports, which are specifically designed to improve and minimize vibrations. In this way, we guarantee a smooth and effective transition to a support system that promotes more stable and efficient operation.

