


**VIBRATION
CONTROL**


MACHINERY and PLANTS



Benefits

Improved Performance

Reducing vibrations in industrial systems increases their stability, optimizing efficiency and enhancing long-term performance.

Increased Durability

Vibration control minimizes wear on mechanical components, reducing maintenance costs and extending the operational life of equipment.

Enhanced Safety

Protecting operators from excessive vibrations improves their acoustic comfort during work activities, creating a safer and healthier workplace.

Acoustic Comfort

Insulating vibrations in production facilities reduces disturbances to nearby structures, ensuring regulatory compliance and harmony with the surrounding environment.

TheGreennovation

90%

**recycled
products.**



Vibration control

Control vibration, enhance performance.

In industrial settings, vibrations generated by production equipment can compromise the acoustic comfort of nearby or adjacent spaces, reduce the safety standards for staff, and cause machinery to wear out faster, leading to increased maintenance costs. Our vibration insulation products are engineered to enhance machine stability, minimize vibration spread, and extend the operational life of your equipment.

These solutions are also applied in swimming pools, where our technologies address both vibrations from pool activities and those generated by equipment in technical rooms, providing more comfortable and quieter environments.



Foundation plinths insulation.

This solution, ideal for heavy machinery with tri-axial movement, ensures optimal vibration control. Featuring an advanced foundation base insulation system on which the machinery rests, we effectively mitigate the transmission of vibrations outward, thereby protecting surrounding structures. This technology enhances the operational stability of machinery, reduces wear and tear, and lowers long-term maintenance costs. Additionally, our solution creates a more comfortable and safer working environment for operators by minimizing the stresses and vibrations they are exposed to during machinery operation. With our foundation base insulation system, every movement of the machinery is controlled and optimized to guarantee high performance and manageable operational costs.

Product: **MEGAMAT**



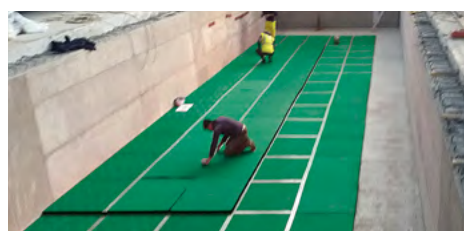
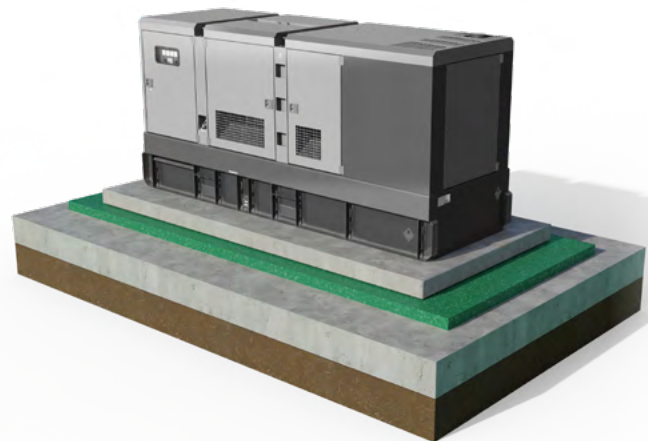
Mallet insulation

STM Srl,
Vicenza

Inertial bases insulation for machinery.

Installing machinery on vibration-insulated inertial bases is an effective solution to enhance their performance and longevity. Properly setting up and insulating the inertial bases, in fact, optimizes load distribution, ensuring greater stability of the installations and, consequently, smoother operation. The use of insulated inertial bases also leads to a considerable reduction in long-term maintenance costs by minimizing wear and fatigue of moving parts caused by harmful vibrations. Increased machinery reliability reduces downtime and interruptions: in this way, thanks to our insulation solutions, we guarantee high performance and cost optimization.

Product: **MEGAMAT / MEGAPOINT**



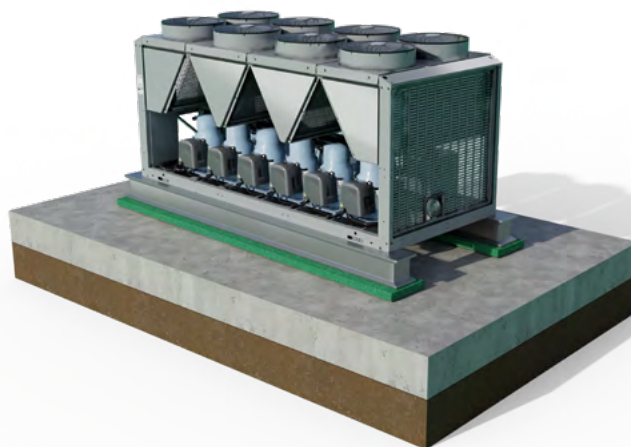
Inertial base on pit

Monchieri
Spa,
Brescia

Direct insulation of machinery.

Direct machinery insulation is a versatile and efficient technique that does not require complex structural modifications. With this solution, it is possible to apply the insulation system directly beneath the machinery without altering or modifying existing structures. Therefore, it is ideal for insulating machinery that is already in operation, minimizing intervention times and operational disruptions. Direct insulation effectively contains vibrations, preventing them from propagating to the structure and reducing the noise generated during operation. This intervention not only enhances the acoustic comfort of environments but also protects the structures and components of the machinery itself, reducing wear and tear.

Product: **PAD & STRIPE**



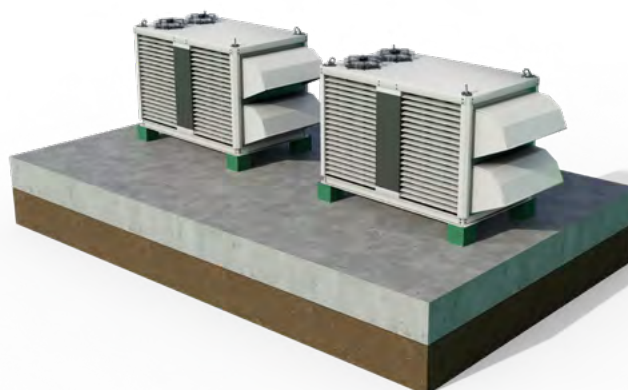
Hospital
technical
room

Bolzano

Machinery on-board insulation.

This solution, applied directly on the machinery, allows facilities to be equipped with custom-made anti-vibration systems, ensuring simple and rapid installation within production departments without the need for complex structural modifications. The solution includes supports of various sizes, designed to accommodate the loads, machinery dimensions, and disruptive frequencies to be insulated. The result is a noticeable reduction in vibrations, which helps improve the acoustic comfort of the work environment and limit the wear and fatigue of the machinery's moving components, extending their lifespan and significantly reducing maintenance costs.

Product: **MEGAFOOT**



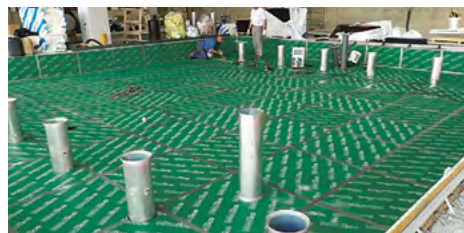
Chiller
air conditioning
system



Production facilities insulation.

Implemented throughout the entire machinery room, typically during the building's construction phase, this solution significantly reduces vibrations generated by production activities, creating a more comfortable working environment for operators. Additionally, by insulating vibrations and noise that could propagate to adjacent rooms, this solution also minimizes disruptions to other company departments or surrounding structures. Complete insulation of the entire surface of production facilities ensures a safer work environment: a smart investment that enhances comfort, productivity, and the well-being of everyone.

Product: **MEGAMAT / MEGAPOINT**



Textile frame base

Gavazzi tessuti tecnici Spa, Lecco

Swimming pool insulation.

Adopting our solutions significantly helps to reduce vibrations generated by pool activities and water movements, creating more comfortable and quieter environments and greatly enhancing the experience for the users of these facilities. This aspect becomes crucial in hospitality settings, where the tranquility of spaces is essential for the comfort of guests. Our technologies also ensure effective insulation of vibrations from technical rooms, such as those caused by filtration systems and pumps. Thanks to our solutions, every pool, whether in a wellness center or a hotel, becomes an oasis of tranquility, offering a relaxing and pleasant experience to all guests.

Product: **MEGAMAT / MEGAPOINT**



Indoor swimming pool

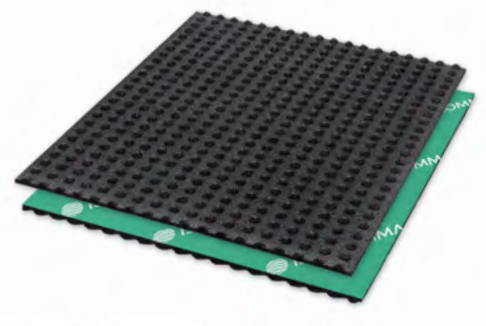
Hotel, Verona

Products

MEGAMAT is the solution we recommend when significant structural interventions for vibration control are possible. Thanks to its high performance, this solution is ideal for insulating foundation plinths and inertial bases supporting machinery, as well as for the complete insulation of foundations in production facilities and swimming pools.



MEGAPOINT is the ideal solution for insulating lightweight machinery or equipment with particularly low and disruptive frequencies. Its unique design ensures high performance while maintaining a reduced thickness, without compromising the mechanical strength and durability required for industrial applications.



PAD & STRIPE are the perfect solutions when structural modifications are not possible, and direct machinery insulation is required. Their versatility in shape and size makes them ideal for a wide range of applications.



		MEGAMAT				MEGAPOINT	PAD STRIPE
		500	650	800	950		
Thickness	mm	12,5 - 25 - 50		12,5 - 25		25	20 - 50
Standard size	mm	1200 x 800					-
Static use range	N/mm ²	0,050	0,150	0,300	0,500	0,005	0,050
Dynamic use range	N/mm ²	0,250	0,600	1,500	2,000	0,050	0,250
Maximum loads	N/mm ²	0,800	1,500	3,000	4,000	0,150	0,800
Static elastic module	N/mm ²	0,550	1,550	3,000	5,000	0,060	0,550
Dynamic elastic module	N/mm ²	1,800	4,500	8,800	14,200	0,300	1,800
30% compression	N/mm ²	0,250	0,600	1,500	2,000	0,050	0,250
Loss factor		0,143	0,140	0,136	0,137	0,147	0,143
Fire resistance		Class E					

MEGAFOOT is an anti-vibration system for machinery on-board installations, available in various sizes with adjustable density. This ensures high versatility, making it suitable for a wide range of applications.



Machine weight assessment on 4 supports.		MEGAFOOT			
		S	M	L	XL
Thickness	mm	30	50		
Machine weight (low density)	kg	50 > 450	100 > 700	200 > 1200	450 > 2700
Machine weight (high density)	kg	150 > 1500	300 > 2500	500 > 4500	1200 > 10000

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