Marine engine mounts

Anti-vibration mounts for marine diesel engines with different stiffness characteristics in each axis to optimise vibration isolation.



The **AMC-MECANOCAUCHO® marine engine mounts** are specifically designed for the **vibration isolation of marine diesel engines**. Their design incorporates **different stiffness characteristics in all three axes**, adapted to the loads and specific movements generated by the engine and propulsion system.

The **vertical stiffness** is designed to support the static engine load while providing the deflection required for effective vibration isolation. The higher **longitudinal stiffness** helps control movements generated by propeller thrust, while the **lateral stiffness** is optimised to reduce the transmission of vibration to the vessel structure.

This combination of stiffness characteristics provides an **optimum balance between vibration isolation and engine stability**, taking into account the specific dynamic loads found in marine propulsion installations.

The mounts also incorporate an **integrated fail-safe feature** to limit excessive movement and provide mechanical retention of the engine under severe loads. Their **corrosion protection** is suitable for the demanding conditions encountered in marine environments.

They are particularly suitable for **marine propulsion diesel engines, generator sets and auxiliary equipment** requiring effective vibration isolation and precise control of movement in all three axes.

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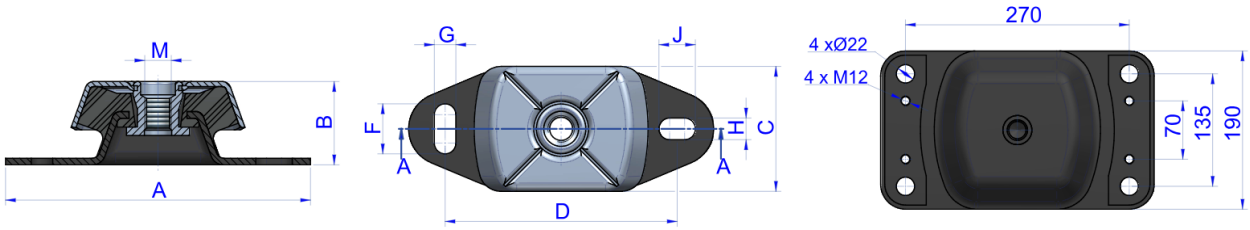
Drawings

SMALL / MEDIUM / LARGE / XL



Type	Tightening torque Max. (Nm)	A(mm)	B(mm)	C(mm)	D(mm)	F(mm)	G(mm)	H(mm)	J(mm)	M	Weight(gr)	Code	Max. Load(kg)	Shore
SMALL	55	120	40	60	100	14	11	14	11	M-12	397	136001	35	40 Sh
												136002	45	45 Sh
												136003	70	55 Sh
												136004	95	65 Sh
												136005	110	75 Sh
MEDIUM	125	184	50	75	140	30	13	13	22	M-16	857	136021	95	35 Sh
												136022	120	45 Sh
												136023	220	55 Sh
												136024	280	65 Sh
												136025	450	75 Sh
LARGE	190	228	68	112	182	34	18	18	26	M-20	2250	136041	350	45 Sh
												136042	525	55 Sh
												136043	800	65 Sh
												136044	1080	75 Sh
XL	285	330	112	190	270	-	-	-	-	M-24	9600	136061	950	40 Sh
												136062	1400	50 Sh
												136063	2200	60 Sh
												136064	3000	70 Sh

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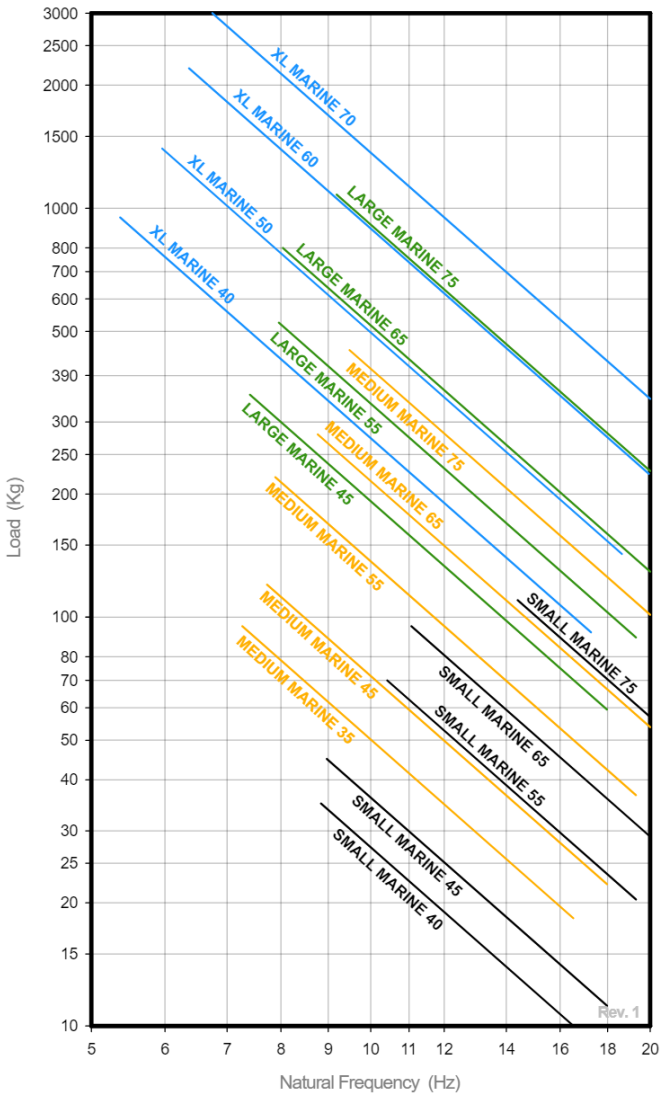
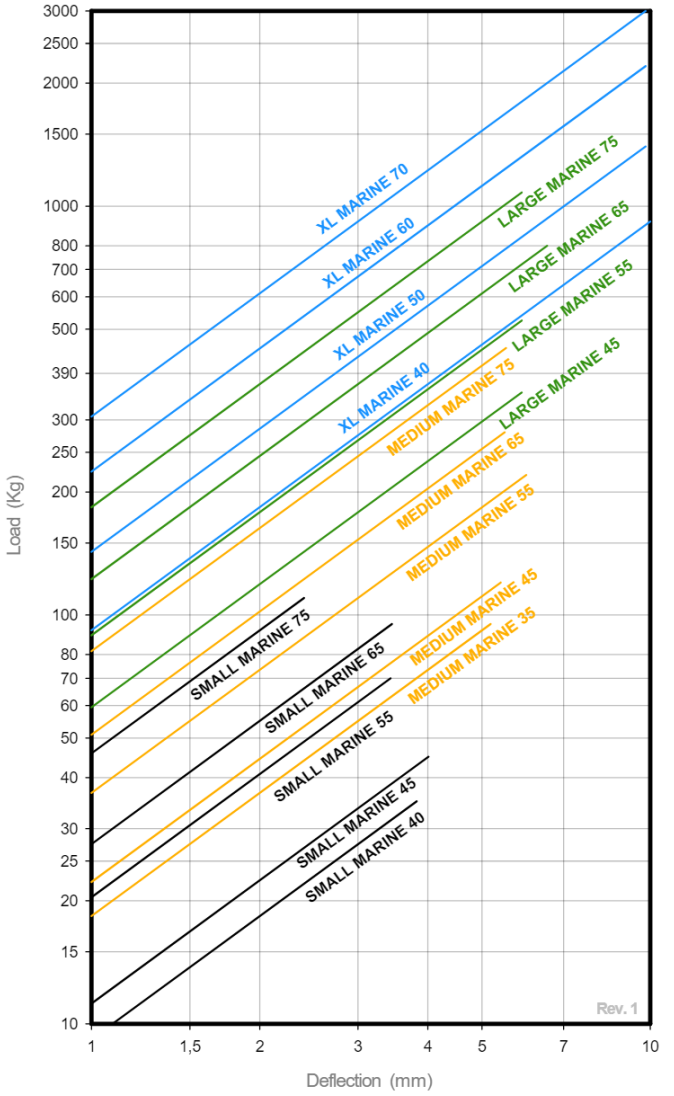
Elastic properties

NATURAL FREQUENCY GRAPHS
AMC MECANOCAUCHO® MARINE ENGINE MOUNT



LOAD DEFLECTION GRAPHS
AMC MECANOCAUCHO® MARINE ENGINE MOUNT



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Technical characteristics

- The top part of the hood has a cross-shaped indentation , which enhances its rigidity in mobile applications and also improves the flow of oils or liquids which splash onto it.

- The metal parts have an anticorrosive treatment which is suitable for outdoor applications.RoHs compliant.

- The mounts are clearly identified, as the bases are engraved with the type and hardness.

- They have an interlocking metal component that provides a fail-safe protection for mobile applications. This device limits vertical movement when the mounting is submitted to shock inputs.

- The top part protects the elastomer inside from possible dripping oil, diesel, ozone and ultraviolet rays which can cause major damage to the rubber.

- The different stiffnesses for each axis make it possible to offer major flexibility in the direction perpendicular to the crankshaft of the engine. This provides more effective isolation from vibrations of all types of engines.

- For marine engine applications, contact the AMC Mecanocaucho ® Technical Department.

Advantages

Easy Installation

This mount requires minimal structural modifications, making installation quick and straightforward.

High protection against weathering and chemical contamination

The bell housing protects the rubber from ozone and UV radiation, while also preventing contact with diesel, oils or other chemicals that could damage it.

Improved isolation

It offers improved isolation compared with conventional anti-vibration mounts of similar geometry.

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