Marine Engine Vibration Isolators

Vibration isolators for marine diesel engines with different stiffness characteristics in each axis for optimized vibration isolation.

The **AMC-MECANOCAUCHO® marine engine vibration isolators** are specifically designed for the **vibration isolation of marine diesel engines**. Their design incorporates **different stiffness characteristics in all three axes**, matched 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 movement generated by propeller thrust, while the **lateral stiffness** is optimized to reduce vibration transmission to the vessel structure.

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

The isolators 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 demanding 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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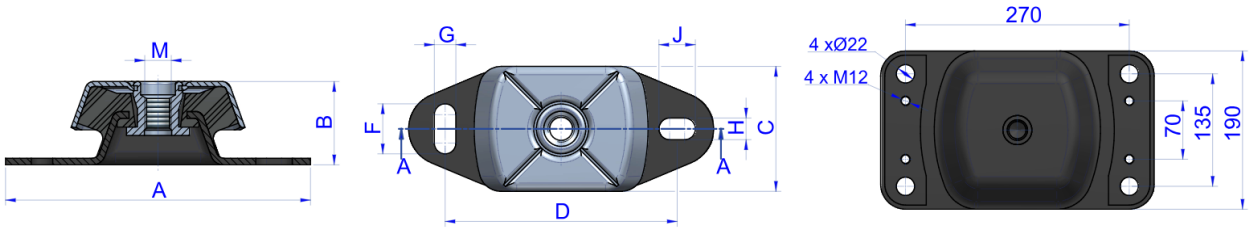
Drawings

SMALL / MEDIUM / LARGE / XL



Type	Tightening torque Max. (Nm)	A(in)	B(in)	C(in)	D(in)	F(in)	G(in)	H(in)	J(in)	M	Weight(lbs)	Code	Max. Load (lbs)	Shore
SMALL	2.17	4.72	1.57	2.36	3.94	0.55	0.43	0.55	0.43	M-12	1	136001	77	40 Sh
												136002	99	45 Sh
												136003	154	55 Sh
												136004	209	65 Sh
												136005	242	75 Sh
MEDIUM	4.92	7.24	1.97	2.95	5.51	1.18	0.51	0.51	0.87	M-16	2	136021	209	35 Sh
												136022	264	45 Sh
												136023	485	55 Sh
												136024	617	65 Sh
												136025	992	75 Sh
LARGE	7.48	8.98	2.68	4.41	7.17	1.34	0.71	0.71	1.02	M-20	5	136041	771	45 Sh
												136042	1157	55 Sh
												136043	1763	65 Sh
												136044	2380	75 Sh
XL	11.22	12.99	4.41	7.48	10.63	-	-	-	-	M-24	21	136061	2094	40 Sh
												136062	3086	50 Sh
												136063	4849	60 Sh
												136064	6612	70 Sh

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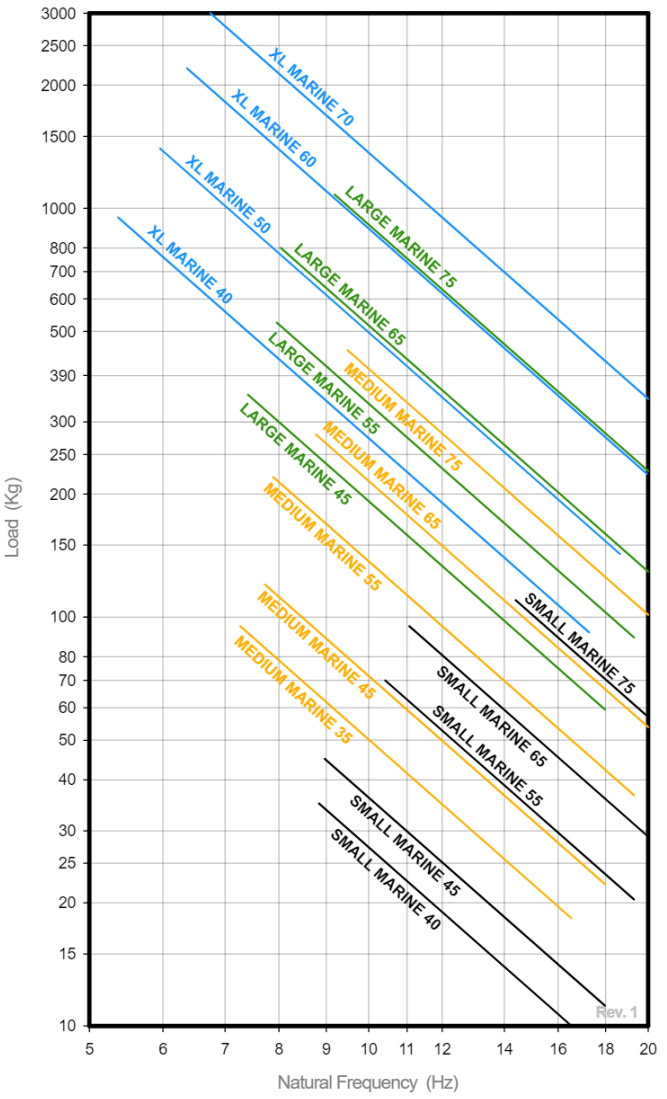
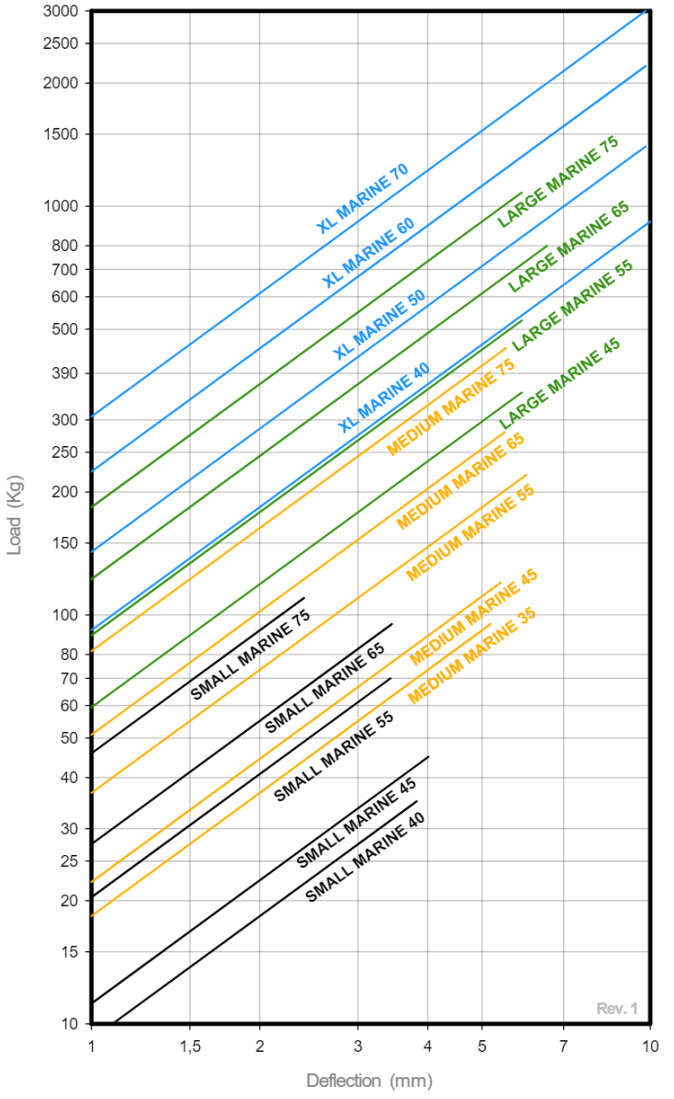
Elastic properties

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 no major modifications to the structure for installation.

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 to conventional anti-vibration mounts of similar geometry.

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