XD Marine Vibration Isolators

High-deflection marine vibration isolators for effective low-frequency isolation, with motion restraint and enhanced protection for demanding environments.



The **AMC-MECANOCAUCHO® XD marine vibration isolators** are designed for mobile applications requiring **high vibration isolation performance**, including at **low frequencies**.

Their design provides **low vertical and radial stiffness**, resulting in a low natural frequency and effective isolation of vibrations generated by engines and onboard equipment. This makes them particularly effective when equipment operates at **low speeds** or generates **low-frequency vibration**.

Their rugged design incorporates an **integrated motion restraint system** to control excessive displacement and withstand tensile loads under severe operating conditions. This mechanical safety feature makes XD vibration isolators particularly suitable for **mobile equipment subjected to motion, shock and acceleration**.

The metal components and elastomer provide good resistance to **corrosion, oils and harsh environmental conditions**, making the XD range well suited for **marine and other mobile equipment applications**.

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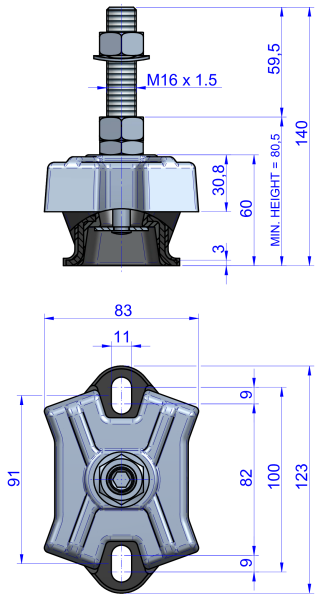
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Drawings

MARINE MOUNT Type XD



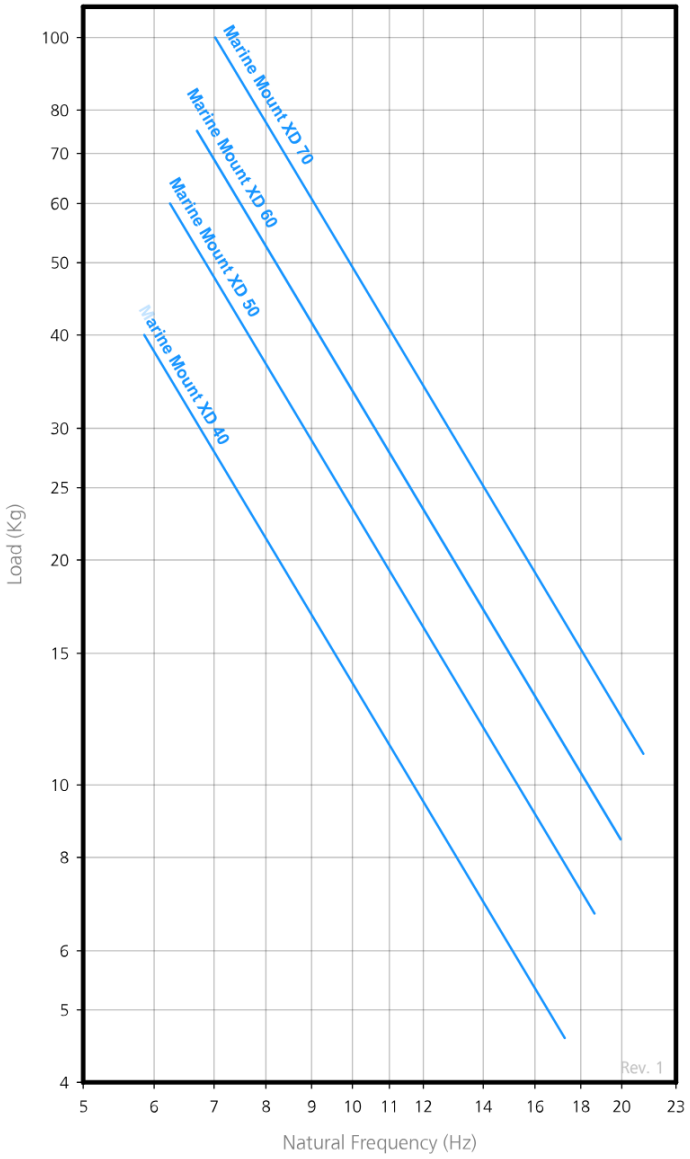
Type	Weight(lbs)	Code	Max. Load (lbs)	Shore
MARINE MOUNT Type XD	1	136151	88	40 Sh
		136152	132	50 Sh
		136153	165	60 Sh
		136154	220	70 Sh

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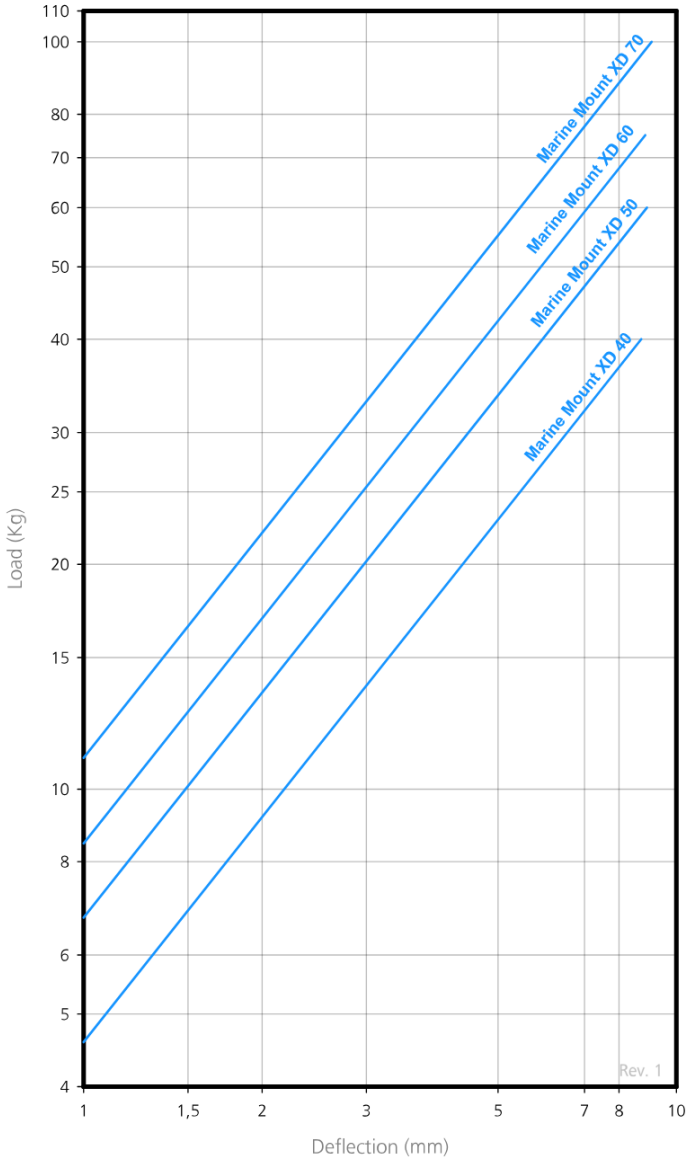
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Elastic properties

NATURAL FREQUENCY AMC MECANOCAUCHO®
MARINE ENGINE MOUNT XD



LOAD DEFLECTION GRAPH AMC MECANOCAUCHO®
MARINE ENGINE MOUNT XD



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Technical characteristics

• The cast aluminum bell has been designed to withstand to great dynamic shocks while the rubber compound is guided in order to avoid relative displacements.

• The rubberized baseplate and the aluminum top cap provide a higher resistance to marine corrosive environments, improving the performance of traditional marine antivibration mounts.

• The mounts have a clear identification of rubber hardness on the baseplate.

• The rubber compound is protected against oil contamination, O3 and UV rays.

• The failsafe device avoids rubber working at traction and limits the vertical ascendant movement.

• The different stiffness rates per axis, allow low roll natural frequencies of the system. This feature provides a higher vibration isolation degree on engines. The fact of having a lower vertical stiffness perfectly suits 3 cylinder engines working at low idle speeds.

• The higher longitudinal stiffness allows the mount to withstand thrust forces. This feature provides stability and reduces longitudinal movements of the engine. For marine application installations, please contact the technical department of AMC-MECANOCAUCHO®.

• Maximum leveling: 3 mm. For further leveling, we recommend to use **shims**.

Advantages

Easy installation

This mount requires no major modifications to the structure for installation.

Improved isolation

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

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.

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