

# 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.

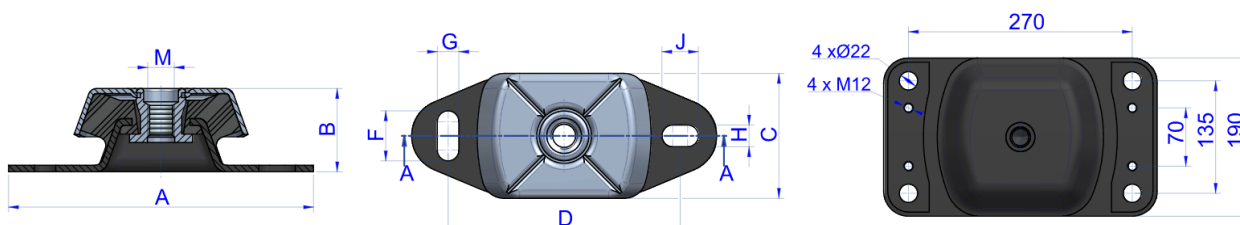
This combination of stiffness characteristics provides an **optimum balance between vibration isolation and engine stability**, taking into account the specific dynamic loads found in marine propulsion installations.

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.

## 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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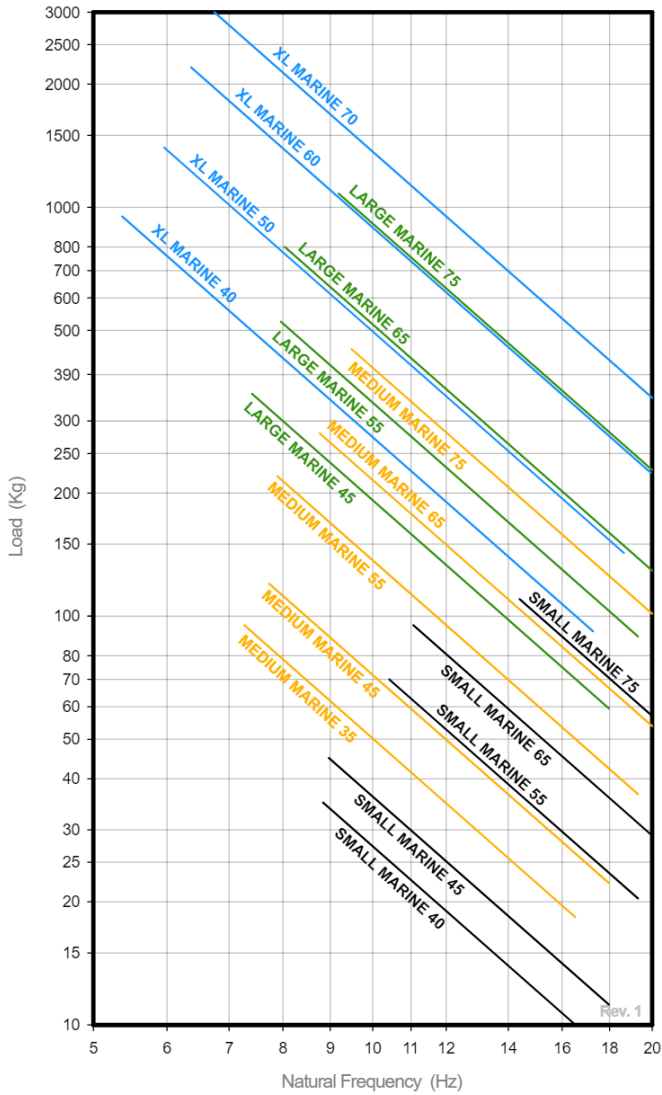
Tel.: +34 843 74 00 13

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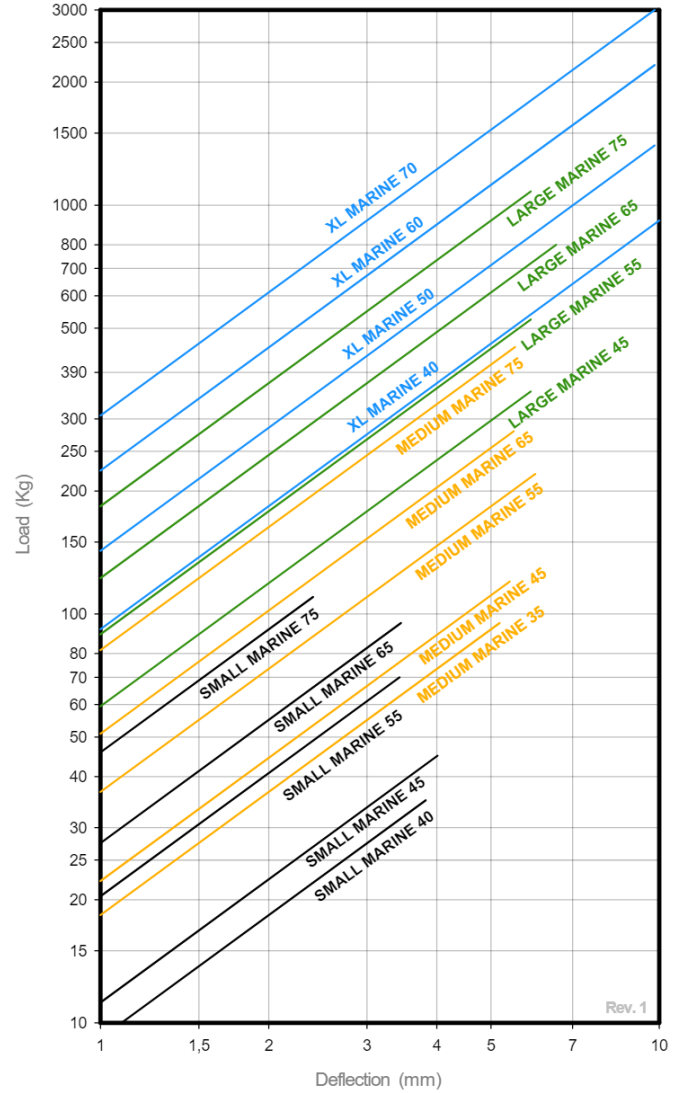
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## Elastic properties

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 Mekanocaucho ® Technical Department.



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