

COMPANY CONNECT

FRIDAY 26/01/2024

HANCOCK INDUSTRIAL LIMITED



"Happy New Year! As we step into a fresh year filled with possibilities, the team at Hancock Industrial extends heartfelt thanks for your continued trust and partnership.

Expect unwavering dedication to quality, timeliness, and customer satisfaction. We're here to serve you better each day,

Wishing you a year filled with success, prosperity, and joy. Thank you for being an integral part of the Hancock Industrial family.

Your Success is Our Priority: Share your projects with Hancock Industrial!

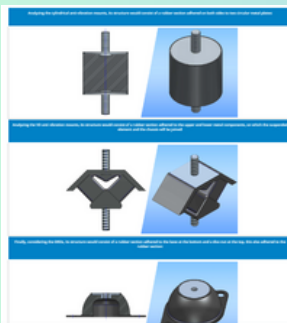
FAIL SAFE VS NON FAIL SAFE ANTI VIBRATION MOUNTS: WHEN TO USE THEM AND ADVANTAGES OF EACH

Tip of the month

FINAL THOUGHTS

Each of the two types of anti-vibration mount is designed for a specific field of application. Fail-safe anti-vibration mounts the most recommended for applications with high dynamic demands while the non-fail safe anti-vibration mounts would be considered for applications that are mainly static.

NON FAILSAFE ANTI-VIBRATION MOUNT



This type of anti-vibration mount is one that does not maintain its integrity in the unwanted event of failure of the elastic element. The integrity of the mount depends on the adhesion between the rubber and the different metal parts of it.

In the case of large dynamic loads and deflections, if the anti-vibration mount is subjected to these frequently and for long periods of time, it could be the case that this adhesion is compromised. In extreme cases separation from the rubber could occur, at which point the suspended element would no longer be secured in place.

Therefore, this type of mount is not recommended for applications with large dynamic requirements. Its field of applications usually extends to mostly static machines such as compressors, rotary pumps, air conditioning equipment, small groups of motor pumps or fans.

FAILSAFE ANTI-VIBRATION MOUNT



This type of anti-vibration mount has a fail-safe system that guarantees its integrity even if there is a failure in the elastic element, so the integrity does not depend on the adhesion, but on the mechanical resistance of the metal components.

As an example we will review the bell type anti vibration mounts, such as the anti-vibration mounts of the BRB, BSB or marine anti-vibration mounts. These would have a structure that would consist, as in the previous case, of a rubber section adhered to the base. Unlike the previous case they also contain a central boss metal with a larger diameter at the bottom than the diameter of the central hole at the base. In the event that the anti-vibration mount is installed in an application with large dynamic loads that cause the rubber element to fail, the suspended element would still be mechanically captive since the geometry of the metal components prevent it from coming apart.

This type of mount is typically recommended for applications with dynamic requirements. Its field of application is more diverse, it can be used to isolate almost all types of vehicle elements (engines, cabins, transmissions ...) as well as generator sets or compressors, both mobile and static.

A Spotlight On AMC's Impactful Visit to Hancock

"AMC's visit to Hancock Industrial was an enriching experience, strengthening our commitment to delivering excellence in every aspect of our industrial solutions.

We commenced training on 6 Degree of Freedom (6-DoF). The 6 degrees of freedom is a representation of how an object moves through 3D space by either translating linearly or rotating axially. A single degree of freedom on an object is controlled by the up/down, forward/back, left/right, pitch, roll, or yaw.

Once training is completed in 6-DoF, we can offer our valuable customers with customized solutions, performance optimization, problem diagnosis and product selections. By incorporating these elements into our customer support framework, we aim to not only meet but exceed your expectations in managing vibrations and ensuring the smooth operation of your machinery.

"Insights Unveiled: A Glimpse into the Acoustics 2023 Sydney Experience"

During the recent industry conference, Hancock had the privilege of engaging with a diverse array of companies, fostering a rich tapestry of experiences and knowledge exchange. We look forward to applying these insights to elevate our industry contributions and better serve our valued customers. Also, I take an opportunity to share one such highlights from the conference.

AMC delved into the intricacies of the Box-in-Box technique, a cutting-edge approach that promises to redefine industry standards. To provide you with an immersive experience, we've included a QR code for convenient access to the full video link. Simply scan the code to unlock a wealth of insights and witness the future of industrial techniques unfold!

