Conical Vibration Isolators with slots

Conical vibration isolators with slots providing different stiffness characteristics along each axis, allowing the natural frequency to be optimized in the required direction.



The **AMC-MECANOCAUCHO® Conical Vibration Isolators with Cavities** are rubber-to-metal isolators designed to provide **effective vibration isolation with different stiffness characteristics along each axis**.

The **cavities incorporated into the elastomer** modify the elastic behavior of the isolator depending on the direction of the applied load. This makes it possible to achieve **lower stiffness along a specific axis**, while maintaining higher stiffness in the other directions.

This characteristic is particularly beneficial when the application requires a **lower natural frequency in a specific direction** to improve vibration isolation, while maintaining stability and movement control along the other axes.

The conical geometry also allows the elastomer to work in **compression and shear**, providing multidirectional behavior suitable for both static and dynamic loads.

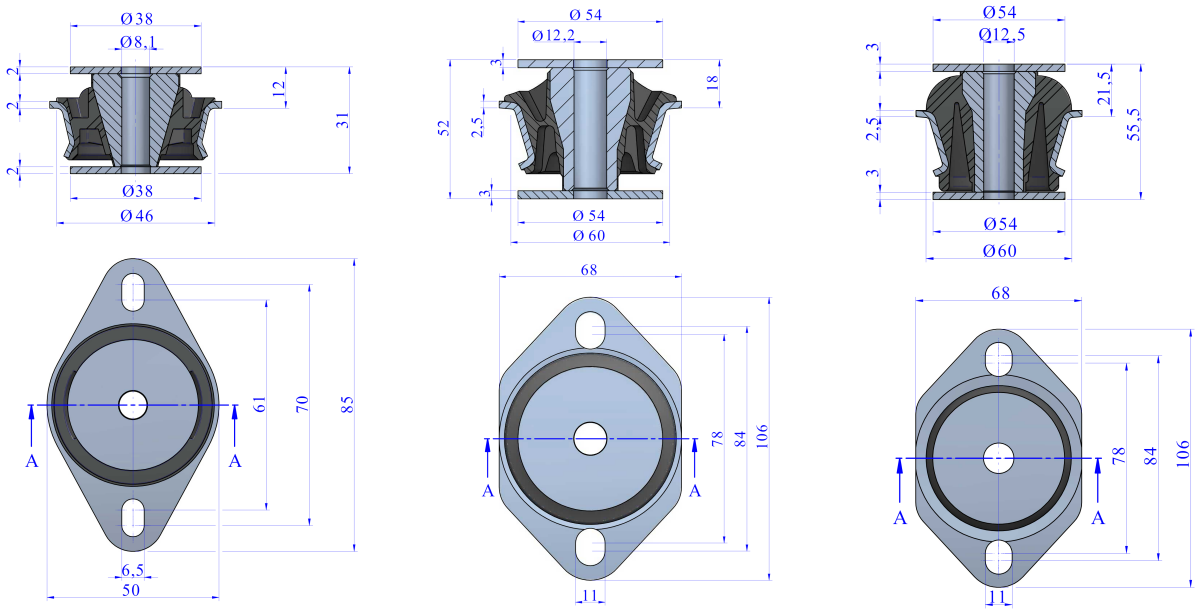
Thanks to this combination of **different stiffness characteristics, vibration isolation, stability, and robustness**, these isolators are particularly suitable for **engines, generator sets, auxiliary machinery, industrial vehicles, and mobile machinery**.

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Drawings

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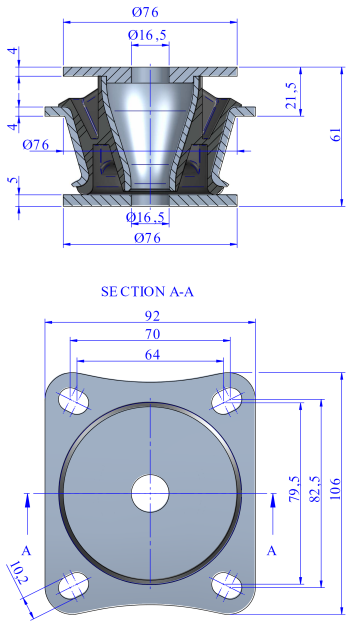
Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
00	0.81	0.28	137007	55	45 Sh
			137008	110	60 Sh
			137009	165	70 Sh
10	2.8	1	137001	165	45 Sh
			137002	309	60 Sh
			137003	463	70 Sh
12	2.8	1	137914	176	45 Sh
			137916	264	55 Sh
			137918	441	70 Sh

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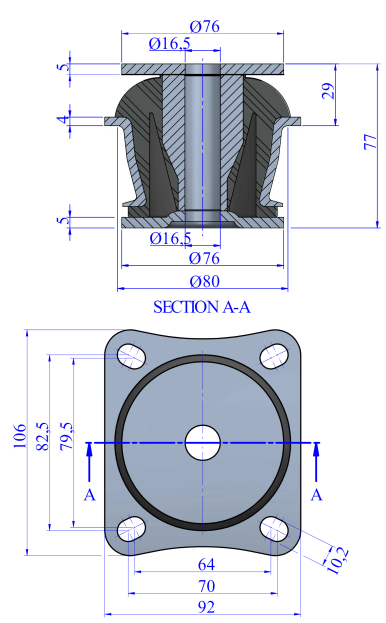
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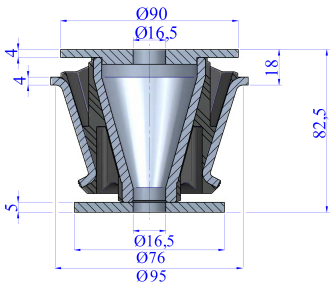
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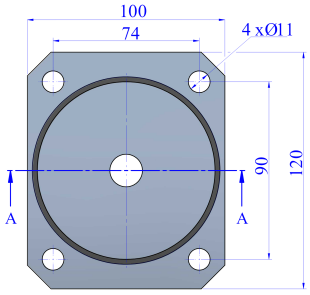
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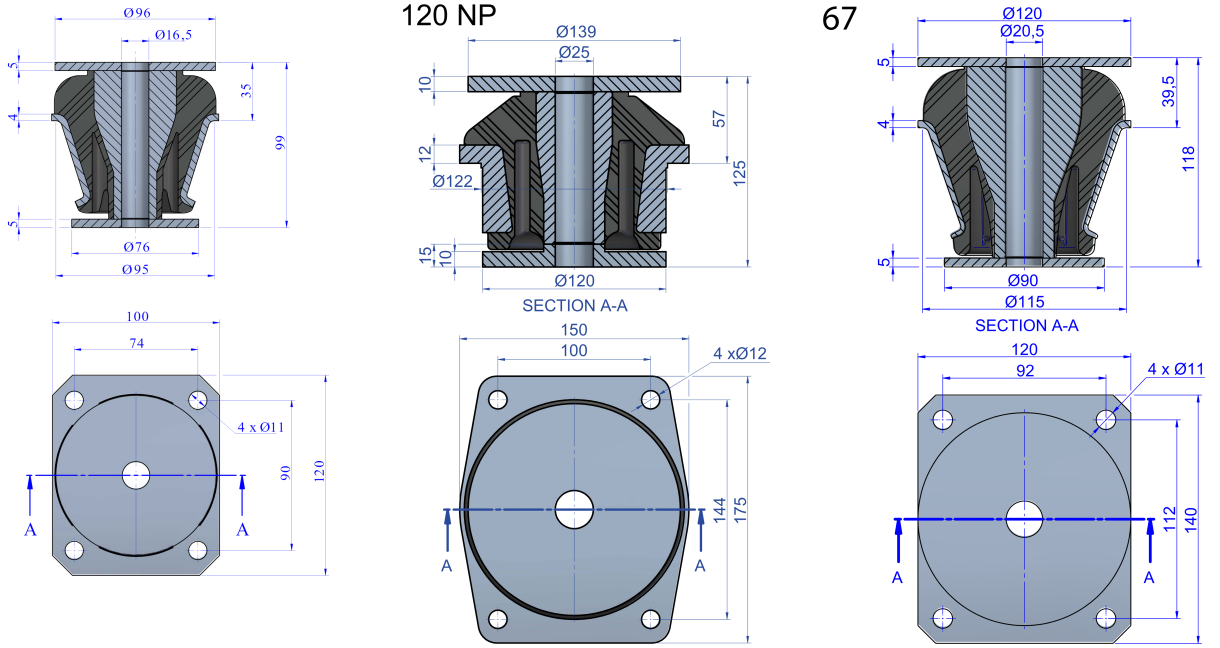


Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
20	4.45	1	137031	264	45 Sh
			137034	441	60 Sh
			137039	727	70 Sh
30	6.69	3	137041	309	40 Sh
			137043	419	50 Sh
			137042	661	60 Sh
			137044	815	70 Sh
35	6.69	3	137065	441	45 Sh
			137067	992	60 Sh
			137068	1675	70 Sh

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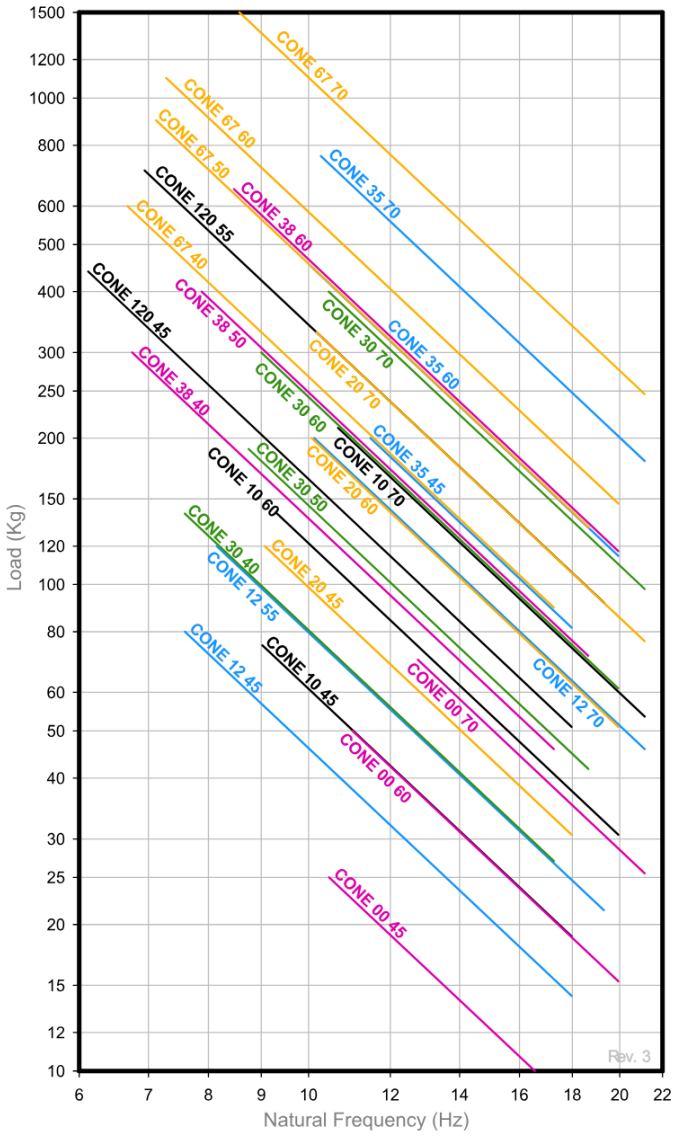
Type	Tightening torque Max. (Nm)	Weight(lbs)	Code	Max. Load(lbs)	Shore
38	6.69	3	137961	661	40 Sh
			137962	882	50 Sh
			137963	1433	60 Sh
			137964	1984	70 Sh
120 NP	23.62	15	137871	970	45 Sh
			137872	1587	55 Sh
67	13.78	7	137730	1322	40 Sh
			137731	1984	50 Sh
			137732	2424	60 Sh
			137733	3306	70 Sh

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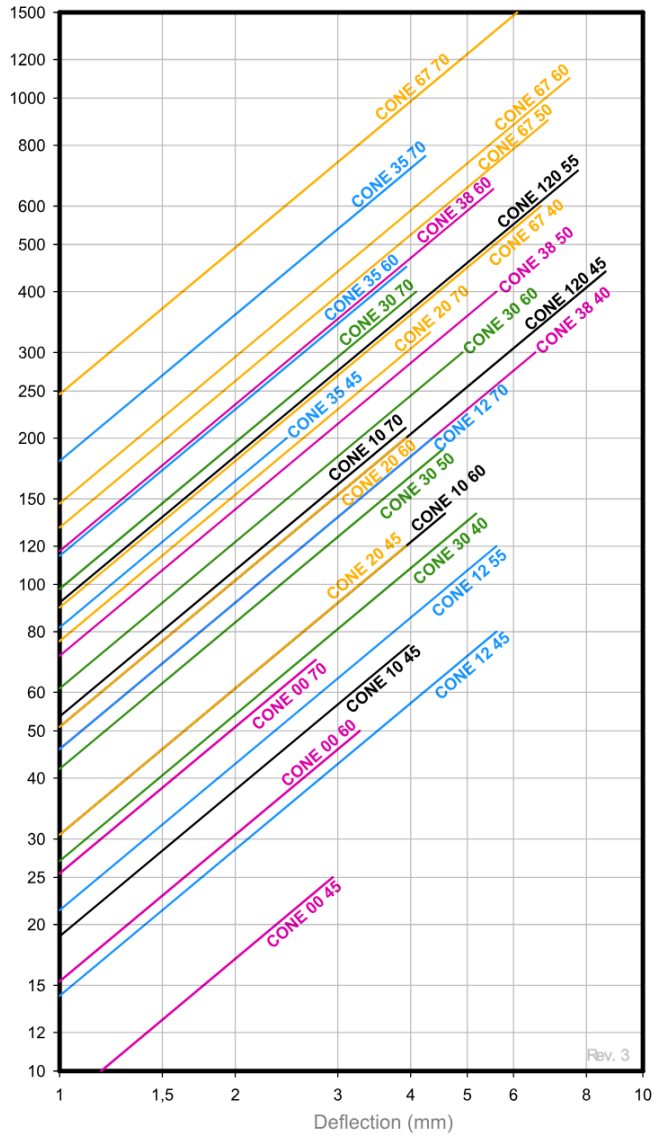
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Elastic properties

NATURAL FREQUENCY
AMC MECANOCAUCHO® CONE WITH CUTOUTS



LOAD DEFLECTION GRAPH
AMC MECANOCAUCHO® CONE WITH CUTOUTS



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Technical characteristics

The AMC-Mecanocaucho® Cone mounts are safe and stable elements. They do not allow the suspended elements to tilt, whilst being flexible enough to avoid the transmission of noise and vibration through the support structure.

They are supplied complete with bump stop and centering washers. This renders deflection above the limits of the Mecanocaucho® Cones impossible, even at extreme loads.

The washers protect the natural rubber (which is highly elastic and highly resistant) from ozone and ageing, as well as from metal knocks and dripping oil. The characteristic deflection curves of the AMC-Mecanocaucho® Cone mounts with centering washer are quite linear, increasing progressively as the load increases. Thanks to this they can safely dampen overloads of up to three times the maximum admissible load.

The cutouts on the rubber section offer different horizontal/vertical stiffness ratios. This feature is especially interesting far those applications where a lower stiffness is required in one of the axes. Our technical department can provide you the elastical constants and can recommend you the optimal position of the cutouts.

Advantages

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.

Mount offering high stability

Suspensions built with this mount barely move, thanks to a geometry designed to control the movement of the suspended element.

High robustness in dynamic applications for improved durability

These mounts offer enhanced robustness and are designed to withstand extreme load peaks. They are especially recommended when good durability is required in demanding applications.

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