Rubber Metal anti vibration mounts

HYDRAULIC MOUNT

AMC-MECANOCAUCHO® hydro mounts combine a spring and a hydraulic damper in a single compact unit that allows tuning of the spring and damper independently.

This provides flexibility in matching the dynamic characteristics of the isolator to the requirements of the application . The internal design of the mount is a new system that bonds the metal parts to the rubber effectively to eliminate leakage of the damping fluid when the mount is subjected to high magnitude shock inputs. For good isolation , low damping is required . For motion control high damping is required .

TECHNICAL CHARACTERISTICS

- The AMC-MECANOCAUCHO® Hydraulic mounts have an interlocking metal component that provides fail-safe protection for mobile applications. This device limits excessive vertical movement when the mountings are subjected to shocks inputs.
- The metal parts are suitably thick and robust to withstand Off Road vehicle application shock inputs and also have an outdoor anti-corrosive treatment fully compliant with RoHs

APPLICATIONS

The AMC-MECANOCAUCHO® Hydraulic mounts have been primarily designed as engine and operator cab isolator mounts in vehicular off highway and agricultural applications.

It is particularly interesting for those engines that operate on a variable rotating speed that must regularly pass the natural frequency of the system during its normal running. Examples of this may be engines of 1,2,3 or 4 cylinders used on construction or agricultural equipment.

It is also interesting for cabins where vibration isolation is for operator comfort purposes but also can provide stability when the cabin is submitted to transient shocks.

HYDRAULIC MOUNT

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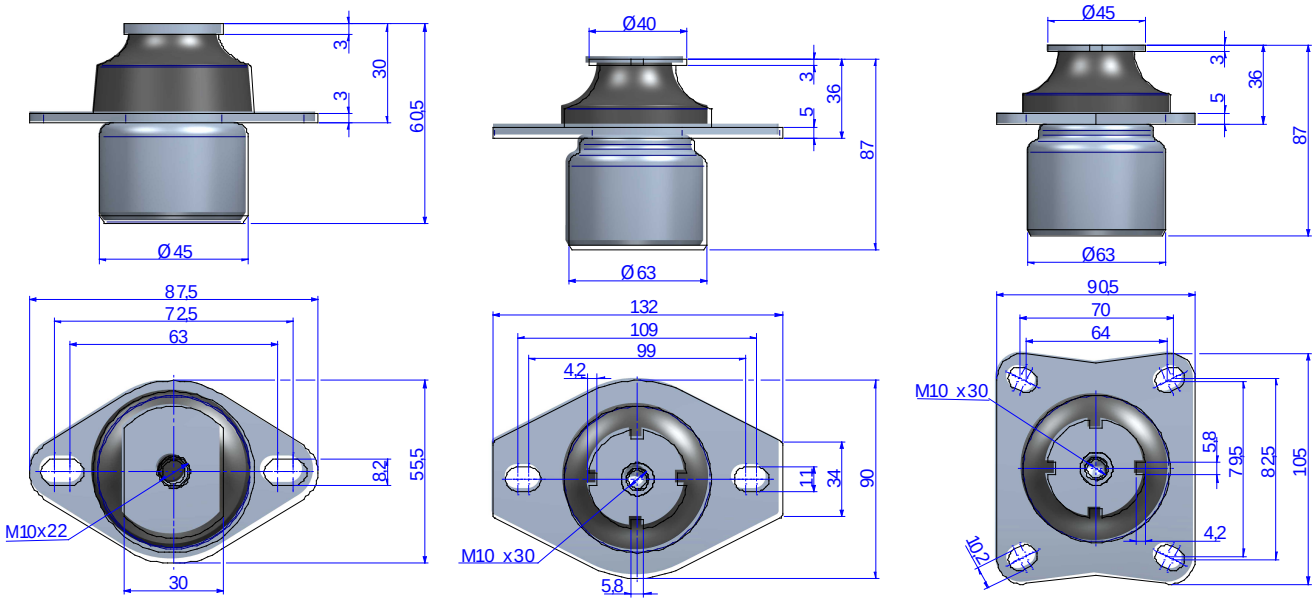
DRAWINGS

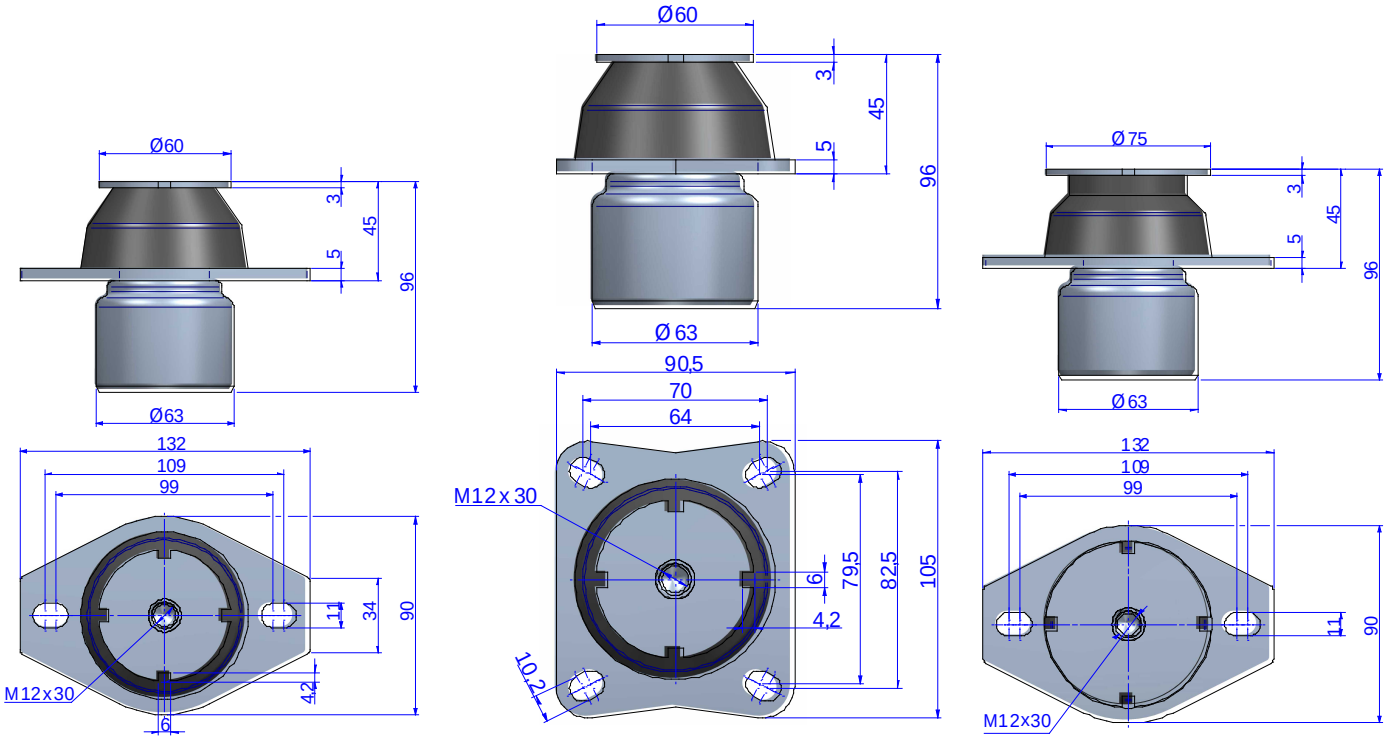


DIMENSIONS

Type	Weight (gr.)	Shore	Max. Load (kg)	Code
MINI	335	40 Sh	20	177031
		50 Sh	30	177032
		60 Sh	50	177033
		70 Sh	70	177034
SMALL	917	40 Sh	60	177001
		50 Sh	100	177002
		60 Sh	145	177003
		70 Sh	180	177013
SMALL RECT.	938	40 Sh	60	177015
		50 Sh	100	177016
		60 Sh	145	177017
		70 Sh	180	177018

HYDRAULIC MOUNT

DRAWINGS



DIMENSIONS

Type	Weight (gr.)	Shore	Max. Load (kg)	Code
MEDIUM	1030	40 Sh	100	177004
		50 Sh	150	177005
		60 Sh	200	177006
		70 Sh	250	177011
MEDIUM RECT.	1050	40 Sh	100	177022
		50 Sh	150	177021
		60 Sh	200	177023
		70 Sh	250	177024
MEDIUM HS 2	1030	40 Sh	125	177045
		50 Sh	180	177046
		60 Sh	250	177047
		70 Sh	300	177048

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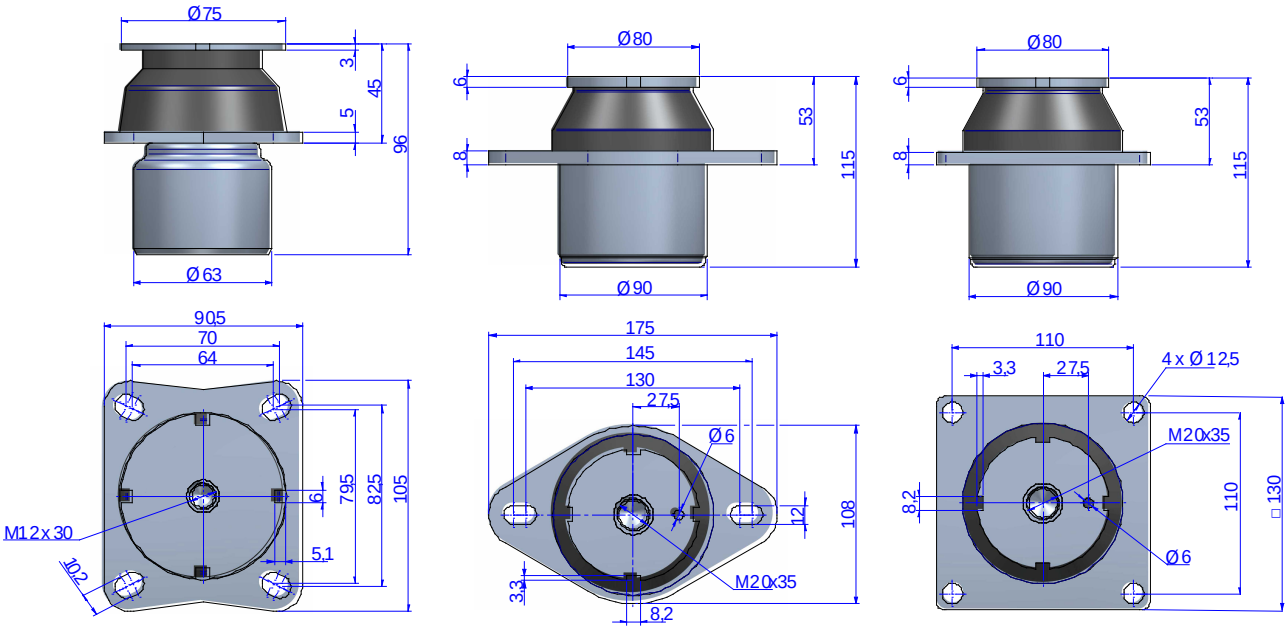

DIMENSIONS

Type	Weight (gr.)	Shore	Max. Load (kg)	Code
MEDIUM HS 4	1050	40 Sh	125	177035
		50 Sh	180	177036
		60 Sh	250	177037
		70 Sh	300	177038
LARGE	2445	40 Sh	235	177007
		50 Sh	295	177008
		60 Sh	345	177009
		70 Sh	410	177014
LARGE RECT.	2713	40 Sh	235	177041
		50 Sh	295	177042
		60 Sh	345	177043
		70 Sh	410	177044

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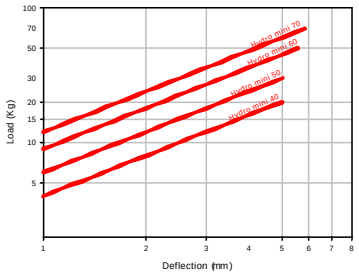
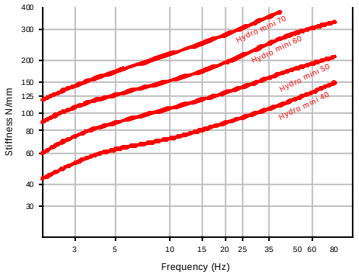
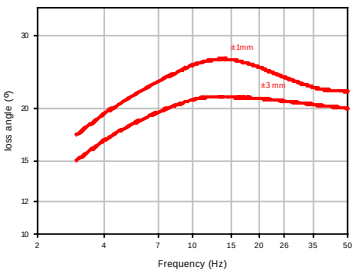
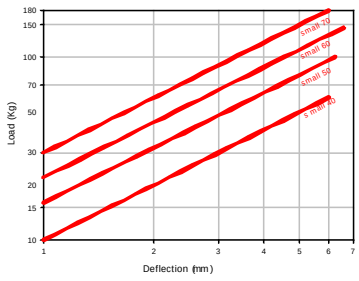
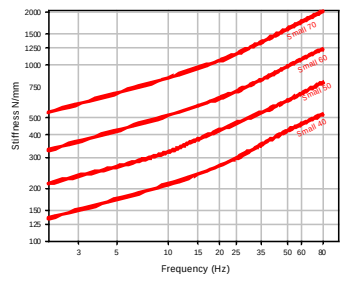
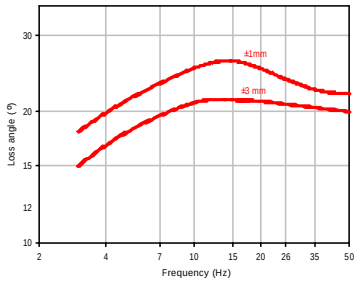
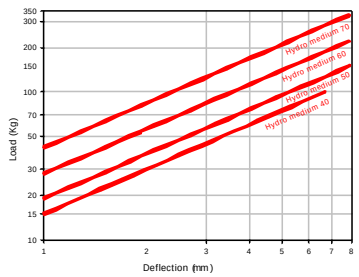
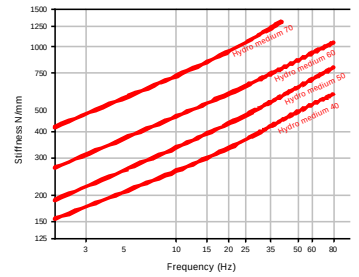
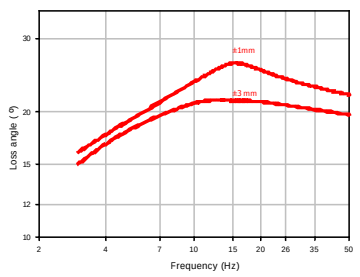
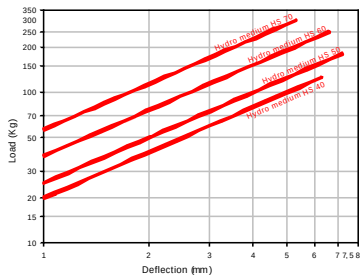
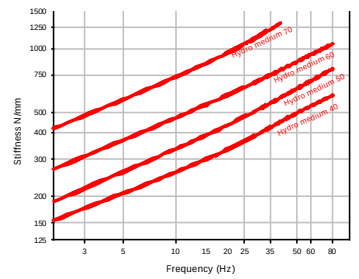
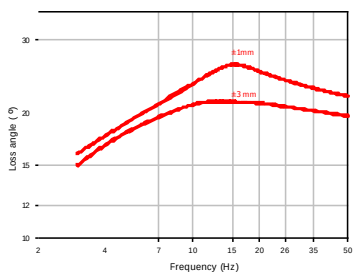
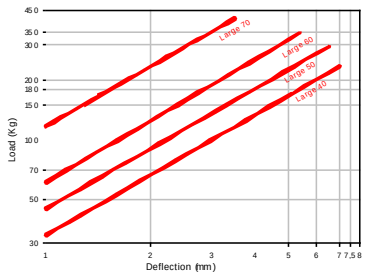
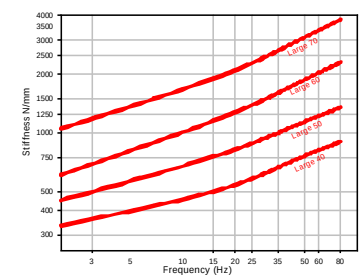
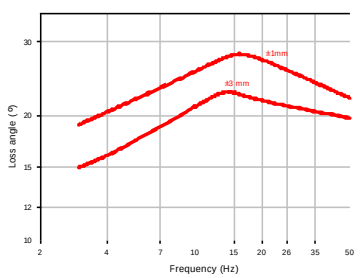
Elastical properties

	LOAD DEFLECTION	DYNAMIC STIFFNESS	DAMPING COEFFICIENT
MINI			
SMALL			
MEDIUM			
MEDIUM HS			
BIG			

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OPERATION AND ASSEMBLY

A hook wrench should be used in the slots to avoid the rotation movement of the rubber.

ADVANTAGES

AMC Hydraulic Mounts accomodate these requirements as the fluid cavity is divided into two chambers with a specific orifice between them so that motion of the elastomeric element causes fluid to flow from one chamber to the other thus dissipating energy and creating damping in the system . These mounts are particularly suitable for installations requiring good vibration isolation but still require motion control under transient shock inputs , or when operating close to the isolation systems resonant frequency

For good isolation, low damping is required. For motion control, high dampening is required. The Mecanocaucho® hydraulic mounts accommodate these conflicting requirements. The fluid cavity is divided into two chambers with an orifice in between, so that …