Anti vibration
mounts

HYDRAULIC MOUNT

The AMC MECANOCAUCHO® Hydraulic mounts combine a spring and a hydraulic damper in a single compact unit. Both the stiffness and the damping can be tuned independently by

AMC during the manufacturing process, this provides flexibility in matching the dynamic characteristics of the isolator to the requirements of the application.

The internal architecture of the mount is composed of a new system that bonds the rubber to the metal parts in order to eliminate any leakage of the dampening fluid when the mount is submitted to high magnitude shocks.

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 motion of the elastomeric element causes fluid to flow from one chamber to the other, dissipating energy and this creating damping in the system.

These mounts are particularly interesting far those installations that require a soft isolator far good isolation but still require motion control under transient (shock} inputs or when operating close to the isolation system's resonant frequency.

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

TECHNICAL ADVICE FOR FOPS ROPS APPROVAL

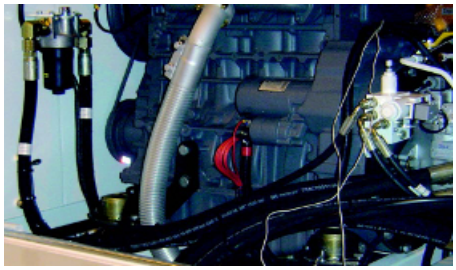
AMC-MECANOCAUCHO's technical department will be pleased to offer you advice on correct

APPLICATIONS

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

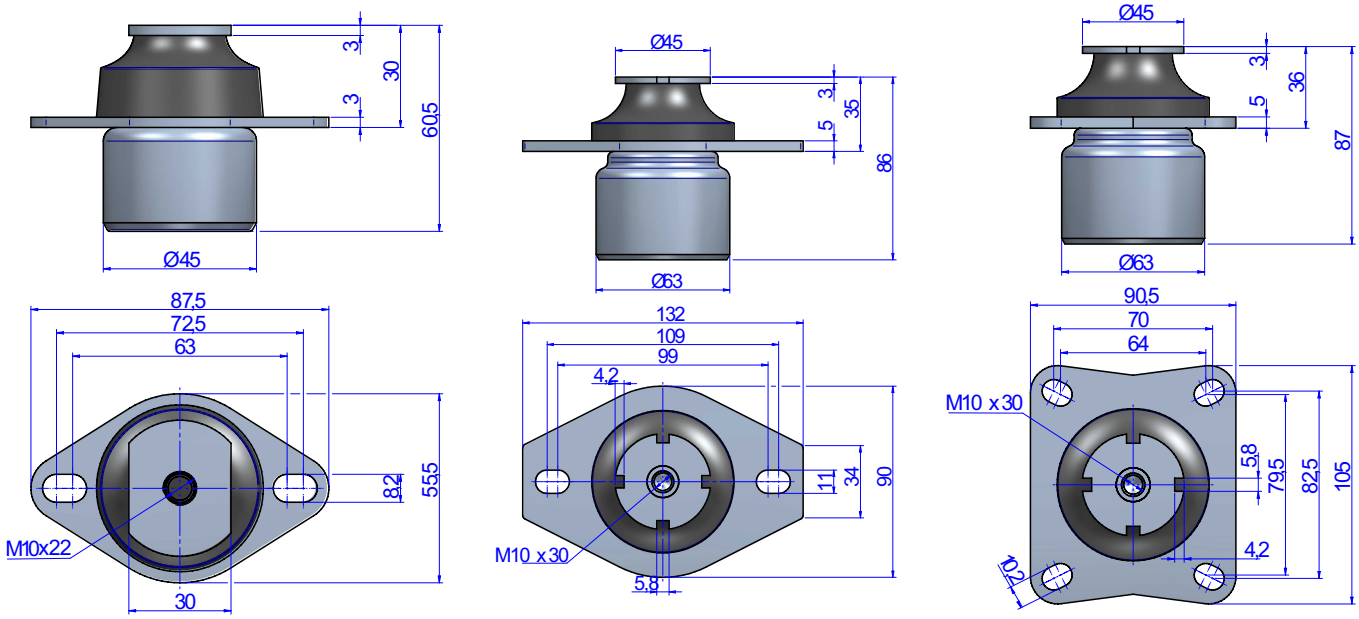
It is particularly interesting for those engines that operate on a variable rotating speed that must regularly pass the natural frequency of the system during its normal running. Examples of this may be engines of 1,2,3 or 4 cylinders used on construction or agricultural equipment.

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

DRAWINGS



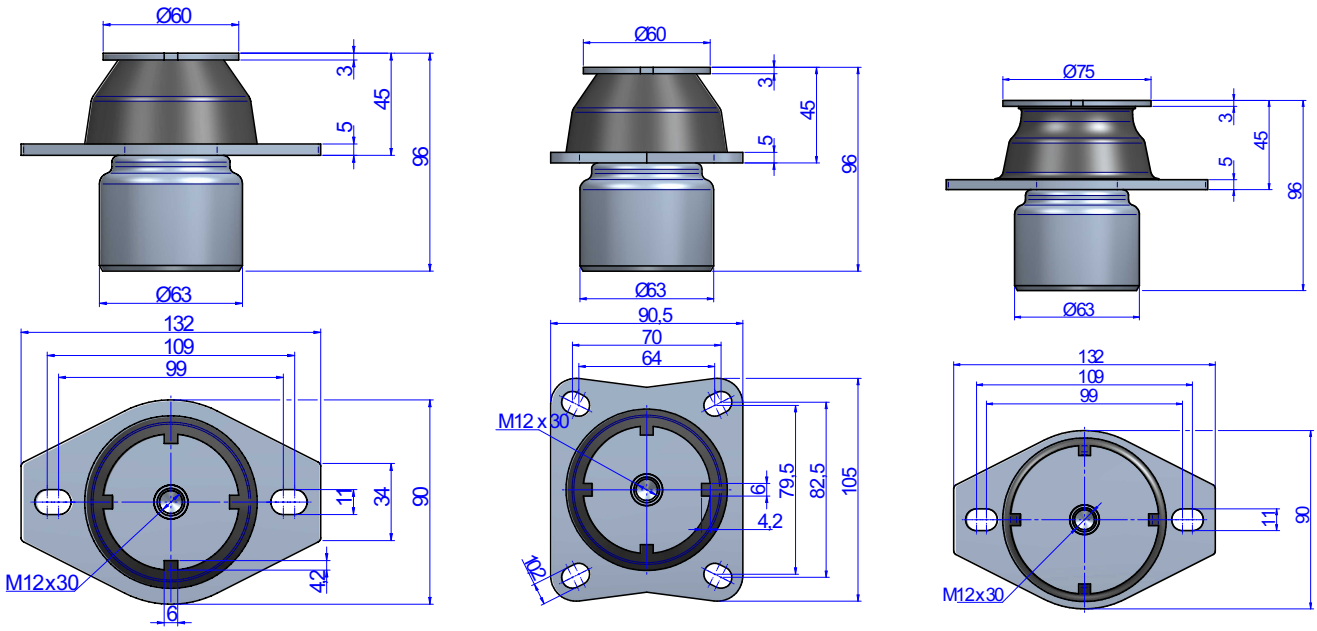
DIMENSIONS

Type	Tightening torque Max (Nm)	Weight (gr)	Max. Load (kg)	Shore	Code
MINI	41	335	20	40 Sh	177031
			30	50 Sh	177032
			50	60 Sh	177033
			70	70 Sh	177034
SMALL	41	917	60	40 Sh	177001
			100	50 Sh	177002
			145	60 Sh	177003
			180	70 Sh	177013
SMALL RECT.	41	938	60	40 Sh	177015
			100	50 Sh	177016
			145	60 Sh	177017
			180	70 Sh	177018

Anti vibration
mounts

HYDRAULIC MOUNT

DRAWINGS

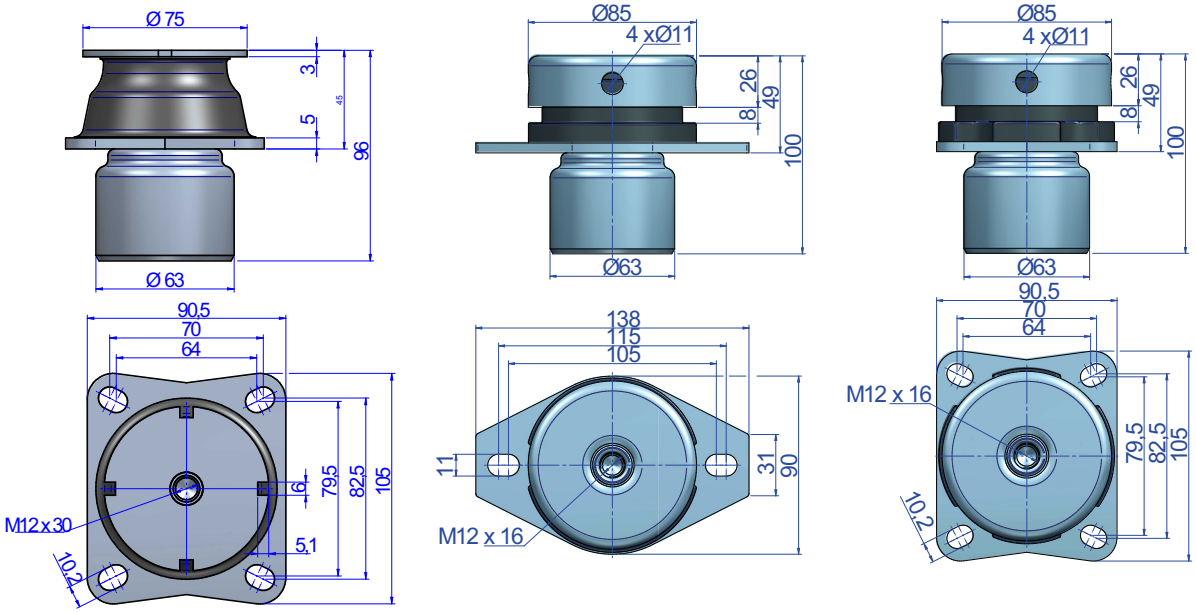


DIMENSIONS

Type	Tightening torque Max (Nm)	Weight (gr)	Max. Load (kg)	Shore	Code
MEDIUM	71	1030	100	40 Sh	177004
			150	50 Sh	177005
			200	60 Sh	177006
			250	70 Sh	177011
MEDIUM RECT.	71	1050	100	40 Sh	177022
			150	50 Sh	177021
			200	60 Sh	177023
			250	70 Sh	177024
MEDIUM HS 2	71	1030	125	40 Sh	177045
			200	50 Sh	177046
			250	60 Sh	177047
			350	70 Sh	177048

HYDRAULIC MOUNT

DRAWINGS



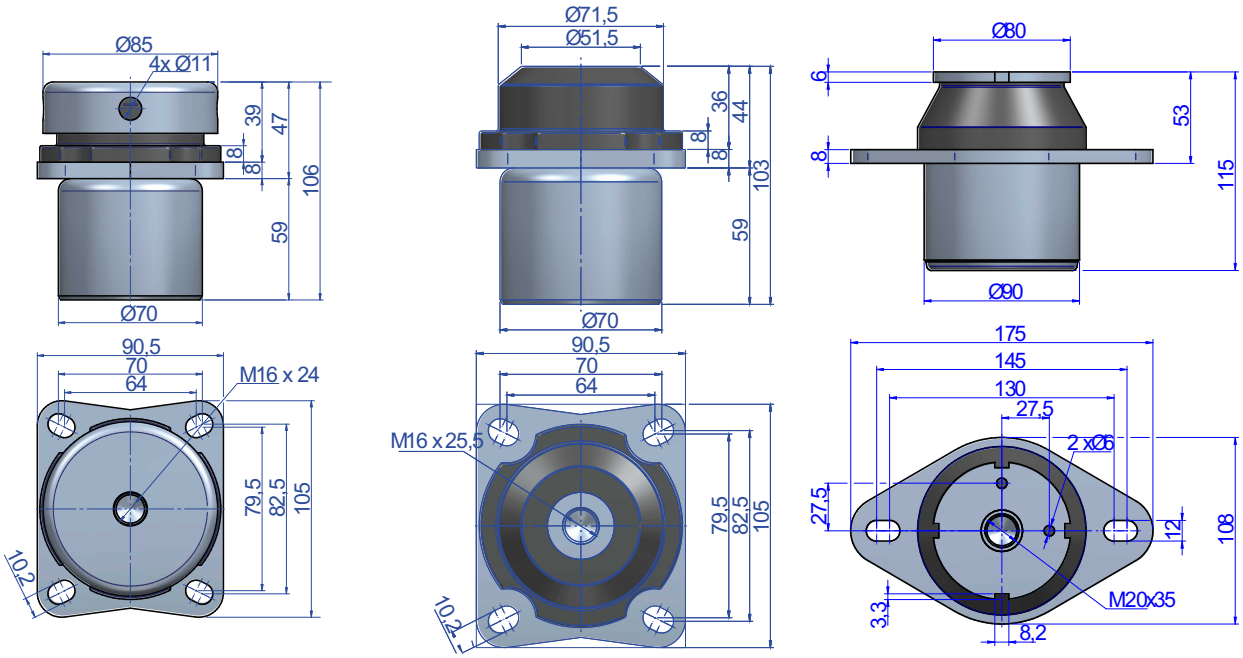
DIMENSIONS

Type	Tightening torque Max (Nm)	Weight (gr)	Max. Load (kg)	Shore	Code
MEDIUM HS 4	71	1050	125	40 Sh	177035
			200	50 Sh	177036
			250	60 Sh	177037
			350	70 Sh	177038
HSR	71	1305	125	40 Sh	177306
			180	50 Sh	177307
			250	60 Sh	177308
			300	70 Sh	177309
HSR RECT	71	1302	125	40 Sh	177388
			180	50 Sh	177389
			250	60 Sh	177390
			300	70 Sh	177391

Anti vibration
mounts

HYDRAULIC MOUNT

DRAWINGS



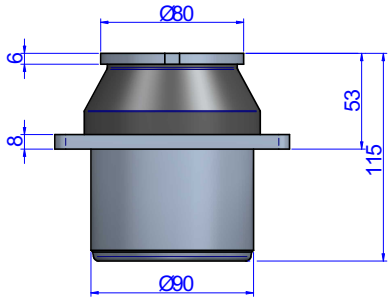
DIMENSIONS

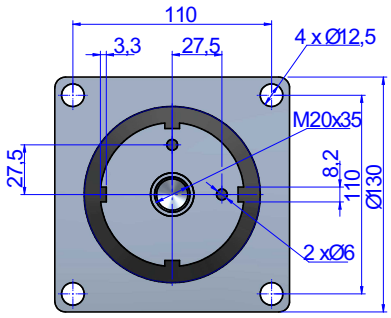
Type	Tightening torque Max (Nm)	Weight (gr)	Max. Load (kg)	Shore	Code
XR C	175	1680	125	40 Sh	177396
			200	50 Sh	177397
			290	60 Sh	177398
			380	70 Sh	177399
XR	170	1440	125	40 Sh	177392
			200	50 Sh	177393
			290	60 Sh	177358
			380	70 Sh	177395
LARGE	350	2445	235	40 Sh	177007
			295	50 Sh	177008
			345	60 Sh	177009
			410	70 Sh	177014

Anti vibration
mounts

HYDRAULIC MOUNT

DRAWINGS



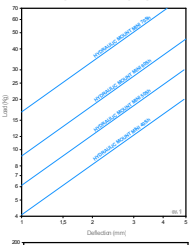
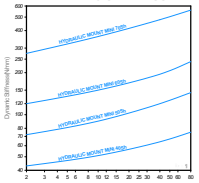
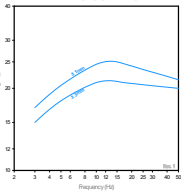
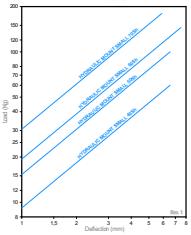
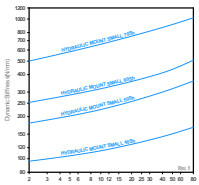
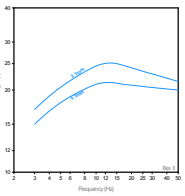
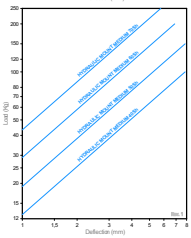
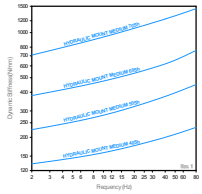
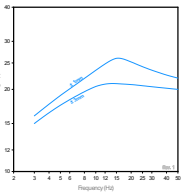
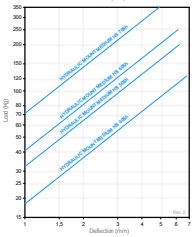
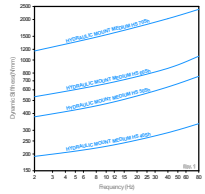
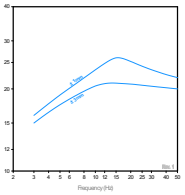
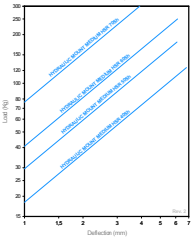
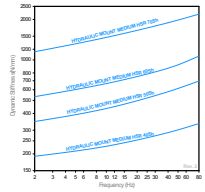
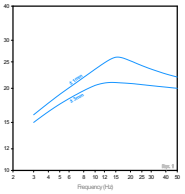
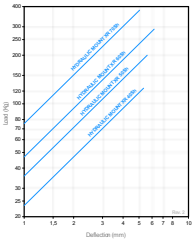
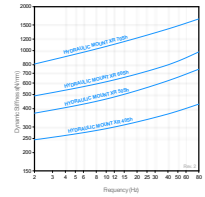
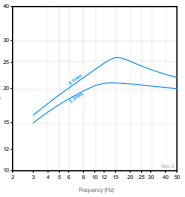
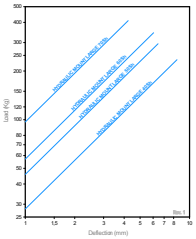
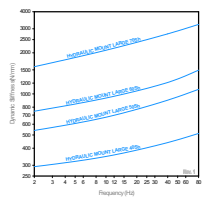
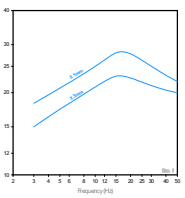


DIMENSIONS

Type	Tightening torque Max (Nm)	Weight (gr)	Max. Load (kg)	Shore	Code
LARGE RECT.	350	2713	235	40 Sh	177041
			295	50 Sh	177042
			345	60 Sh	177043
			410	70 Sh	177044

HYDRAULIC MOUNT

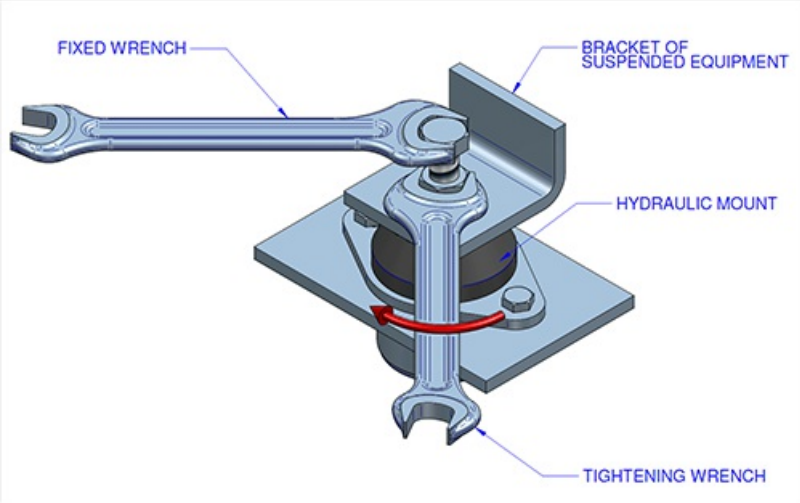
Elastical properties

	LOAD DEFLECTION	DYNAMIC STIFFNESS	DAMPING COEFFICIENT
HYDRO MOUNT MINI			
HYDRO MOUNT SMALL			
HYDRO MOUNT MEDIUM			
HYDRO MOUNT MEDIUM HS			
HYDRO MOUNT MEDIUM HSR			
HYDRO MOUNT XR			
HYDRO MOUNT LARGE			

HYDRAULIC MOUNT

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

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