

Rubber Metal antivibration 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

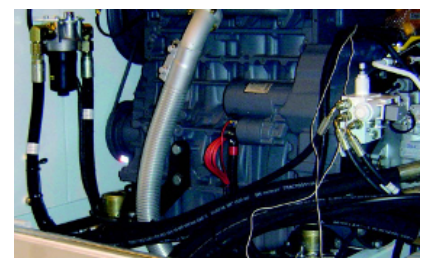
- The AMC-MECANOCAUCHO® Hydraulic mounts have an interlocking metal component that provides fail-safe protection for mobile applications. This device limits excessive vertical movement when the mountings are subjected to shocks inputs.
- The metal parts are suitably thick and robust to withstand Off 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.

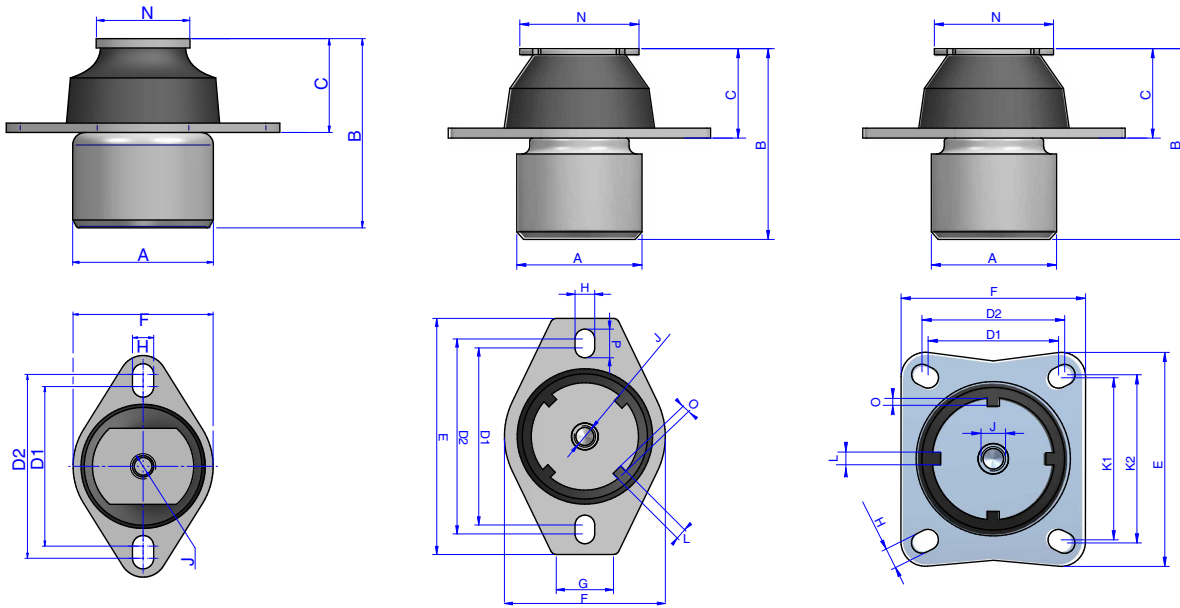
It is also interesting for cabins where vibration isolation is for operator comfort purposes but also can provide stability when the cabin is submitted to transient shocks.



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DRAWINGS



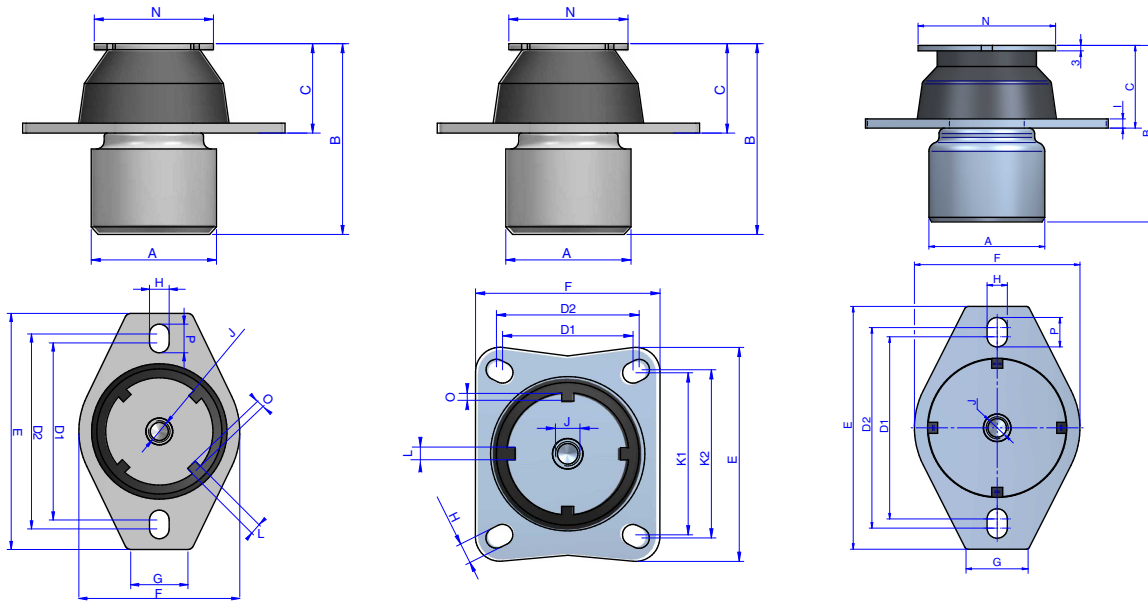
DIMENSIONS

Type	A (mm.)	B (mm.)	C (mm.)	D1 (Min.)	D2 (Max.)	K1 (Min.)	K2 (Max.)	E (mm.)	F (mm.)	G (mm.)	H (mm.)	I (mm.)	J (mm.)	L (mm.)	N (mm.)	O (mm.)	Shore	Max. Load (kg.)	Code
MINI	45	60	30	64	73	-	-	88	56	-	8,2	3	M10	-	30	-	40 Sh	20	177031
																	50 Sh	30	177032
																	60 Sh	50	177033
																	70 Sh	70	177034
SMALL	63	86	36	99	109	-	-	132	90	34	11	5	M10	5,8	45	4,2	40 Sh	60	177001
																	50 Sh	100	177002
																	60 Sh	145	177003
																	70 Sh	180	177013
SMALL RECT.	63	86	36	64	70	79,5	82,5	105	90,5	-	10,2	5	M10	5,8	45	4,2	40 Sh	60	177015
																	50 Sh	100	177016
																	60 Sh	145	177017
																	70 Sh	180	177018

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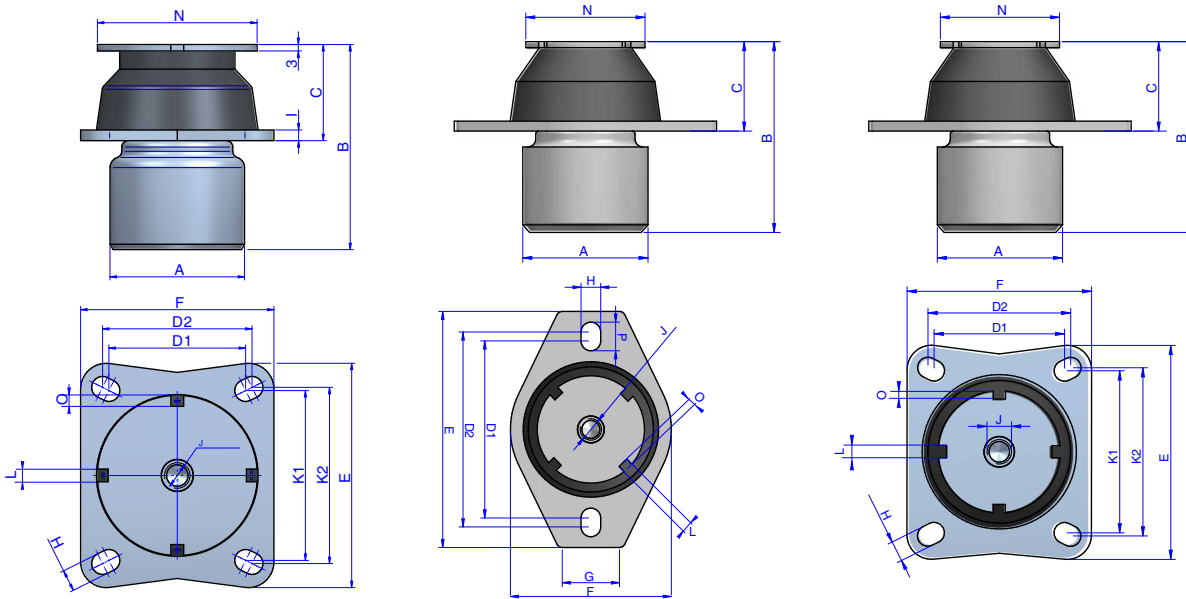
DIMENSIONS

Type	A (mm.)	B (mm.)	C (mm.)	D1 (Min.)	D2 (Max.)	K1 (Min.)	K2 (Max.)	E (mm.)	F (mm.)	G (mm.)	H (mm.)	I (mm.)	J (mm.)	L (mm.)	N (mm.)	O (mm.)	Shore	Max. Load (kg.)	Code
MEDIUM	63	96	45	99	109	-	-	132	90	34	11	5	M12	6	60	4,2	40 Sh	100	177004
																	50 Sh	150	177005
																	60 Sh	200	177006
																	70 Sh	250	177011
MEDIUM RECT.	63	96	45	64	70	79,5	82,5	105	90,5	-	10,2	5	M12	6	60	4,2	40 Sh	100	177022
																	50 Sh	150	177021
																	60 Sh	200	177023
																	70 Sh	250	177024
MEDIUM HS 2	63	96	45	99	109	-	-	132	90	34	11	5	M12	6	75	4,2	40 Sh	100	177045
																	50 Sh	150	177046
																	60 Sh	200	177047
																	70 Sh	250	177048

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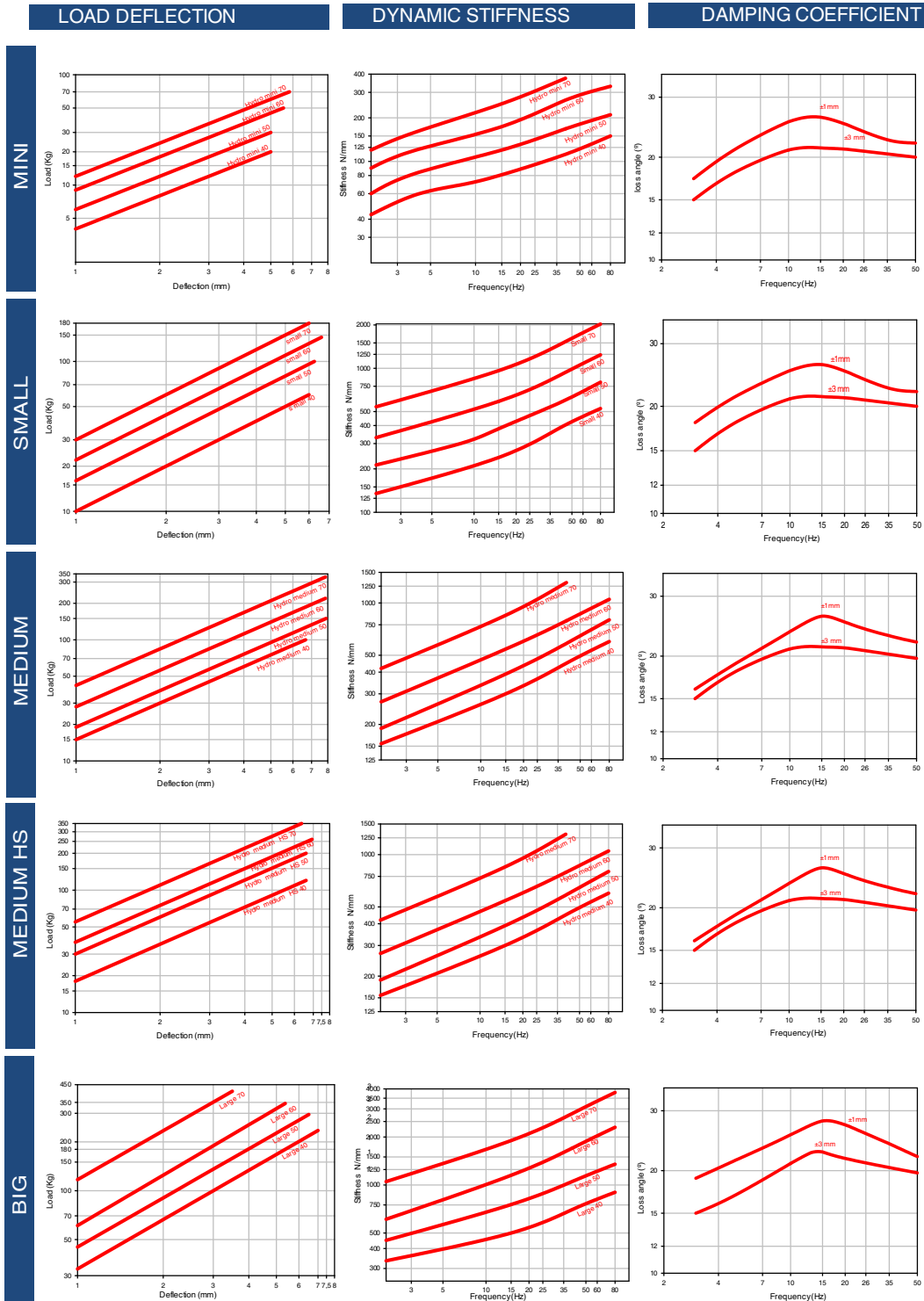
DIMENSIONS

Type	A (mm.)	B (mm.)	C (mm.)	D1 (Min.)	D2 (Max.)	K1 (Min.)	K2 (Max.)	E (mm.)	F (mm.)	G (mm.)	H (mm.)	I (mm.)	J (mm.)	L (mm.)	N (mm.)	O (mm.)	Shore	Max. Load (kg.)	Code
MEDIUM HS 4	63	96	45	64	70	79,5	82,5	105	90,5	-	10,2	5	M12	6	75	4,2	40 Sh	100	177035
																	50 Sh	150	177036
																	60 Sh	200	177037
																	70 Sh	250	177038
LARGE	90	115	53	130	145	-	-	175	108	-	12	8	M20	8,2	80	3,3	40 Sh	235	177007
																	50 Sh	295	177008
																	60 Sh	345	177009
																	70 Sh	410	177014
LARGE RECT.	90	115	53	110	110	110	110	130	130	-	12	8	M20	8,2	80	3,3	40 Sh	235	177041
																	50 Sh	295	177042
																	60 Sh	345	177043
																	70 Sh	410	177044

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ELASTICAL PROPERTIES



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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 accommodate 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 ...