



Picture of an engine application



HYDRAULIC MOUNTS

DESCRIPTION

The **AMC-MECANOCAUCHO® Hydraulic 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 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 thus creating damping in the system.

These mounts are particularly interesting for those installations that require a soft isolator for 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 a fail-safe protection for mobile applications. This device limits the ascending vertical movement when the mounting is submitted to shocks at traction.
- The thickness of the metal parts are robust and are suitable for off road applications. The metal parts have a suitable anticorrosive treatment for outdoor applications. RoHS compliant.

APPLICATIONS:

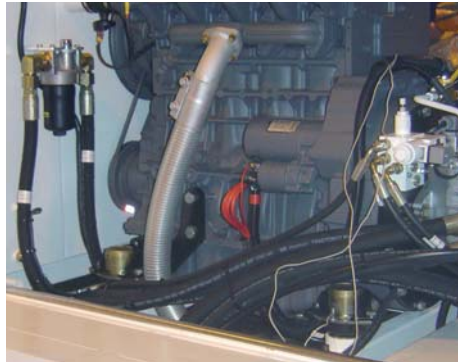
The AMC-MECANOCAUCHO® Hydraulic mounts have been primarily designed as engine and operator cab isolator in vehicular off highway and agricultural applications.

It is particularly interesting for those engines that operate on a variable rotating speed that must pass the natural frequency of the system during its normal functioning. 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 required for operator comfort purposes but as well stability when the cabin is submitted to transient shocks.



Picture of vibration measurements tests



Picture of an engine application



Picture a cabine application

TYPE	A	B	C	D1 (Min.)	D2 (Max.)	K1 (Min.)	K2 (Max.)	E	F	G	H	I	J	N	P	AMC	HARDNESS			
																	40 Sh	50 Sh	60 Sh	70 Sh
MINI	45	60	30	64	73	-	-	88	56	R	8,2	3	M10	17	Ref Max. Load (Kg.)	177031 20	177032 30	177033 50	177034 70	
SMALL	63	86	36	99	109	-	-	132	90	34	11	5	M10	45	21	Ref Max. Load (Kg.)	177001 60	177002 100	177003 145	177013 180
MEDIUM	63	96	46	99	109	-	-	132	90	34	11	5	M12	60	21	Ref Max. Load (Kg.)	177004 100	177005 150	177006 200	177011 250
MEDIUM RECTANG.	63	96	45	64	70	79,5	82,5	105	90,5	-	10,2	5	M12	60		Ref Max. Load (Kg.)	177022 100	177021 150	177023 200	177024 250
LARGE	90	115	53	130	145	-	-	175	108	R	12	8	M20	80	26	Ref Max. Load (Kg.)	177007 235	177008 295	177009 345	177014 410
LARGE RECTANG.	90	115	53	110	110	110	110	130	130	-	12	8	M20	80		Ref Max. Load (Kg.)	177041 235	177042 295	177043 345	177044 410

