

## Rubber Metal antivibration mounts

# HYDRAULIC CONE MOUNTS



The AMC-MECANOCAUCHO HYDRAULIC CONE MOUNT is a combination of a spring component and a hydraulic shock absorber in the shape of a cone. With this both components can be tuned to each other. For good vibration insulation you need a low dampening coefficient but for movement control you need a high dampening coefficient. The AMC MECANOCAUCHO HYDRAULIC CONE MOUNTS combine these two completely different requirements in one single bearing.

This gives you the opportunity to adapt the dynamic properties of the insulator to the individual requirements of the application.

### TECHNICAL CHARACTERISTICS

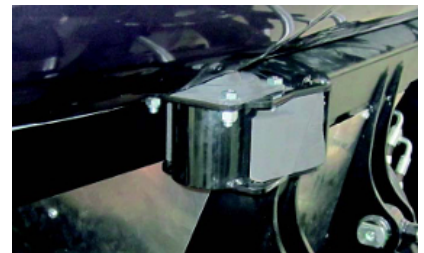
AMC MECANOCAUCHO® hydraulic shock absorbers have an advanced breakaway device inside the bearing that prevents tensile forces on the elastomer by limiting its upward vibration stroke. The newly-developed internal structure of the vibration dampener consists of a metal part system. The elastomer is vulcanised to the whole of this. This prevents a loss of hydraulic fluid should the vibration dampener be subject to great dynamic overloads.

The thickness of the metal parts ensures that the dampener is strong enough for mobile applications. The metal parts are treated with a resistant corrosion protection for outdoor use.

### APPLICATIONS

The AMC-MECANOCAUCHO HYDRAULIC CONE MOUNT is predominantly designed to insulate the vibration in engines and cabs in off-road vehicles (construction, agricultural and local authority vehicles). The HYDRAULIC CONE MOUNT has the necessary resilience to achieve a high level of decoupling. However, it also has the necessary stability for these applications in the event of impacts which thus prevents the vehicles from rocking. This ensures a high level of comfort as well as an immediate working and driving experience.

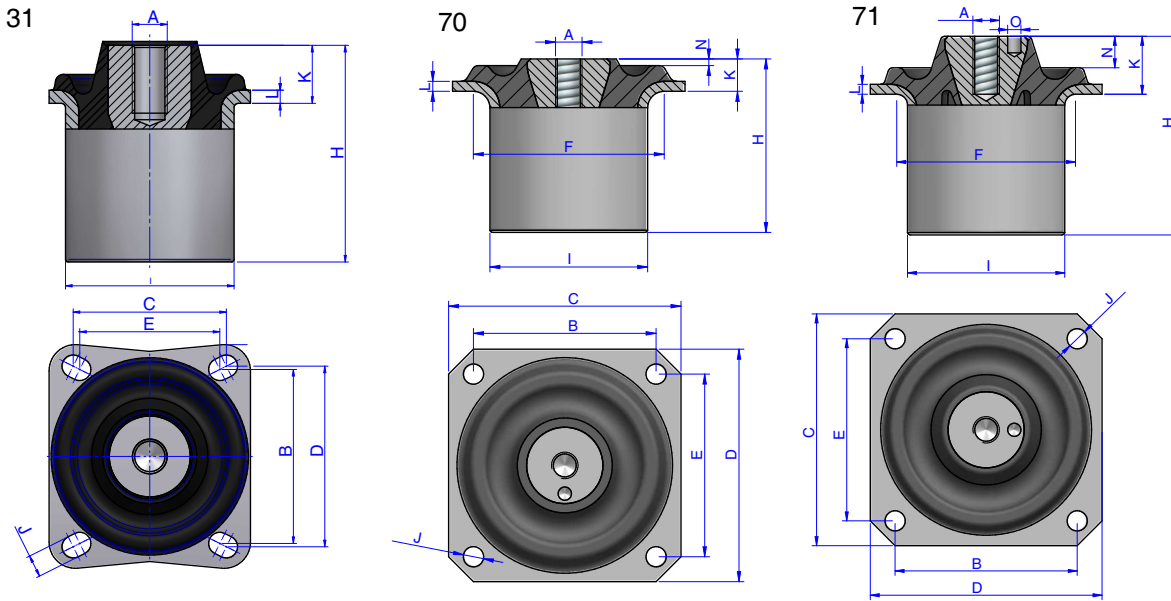
Another advantage becomes apparent with variable speed applications which are within the resonance frequency range in normal operation. This resonance is significantly reduced with the HYDRAULIC CONE MOUNT.



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### DRAWINGS



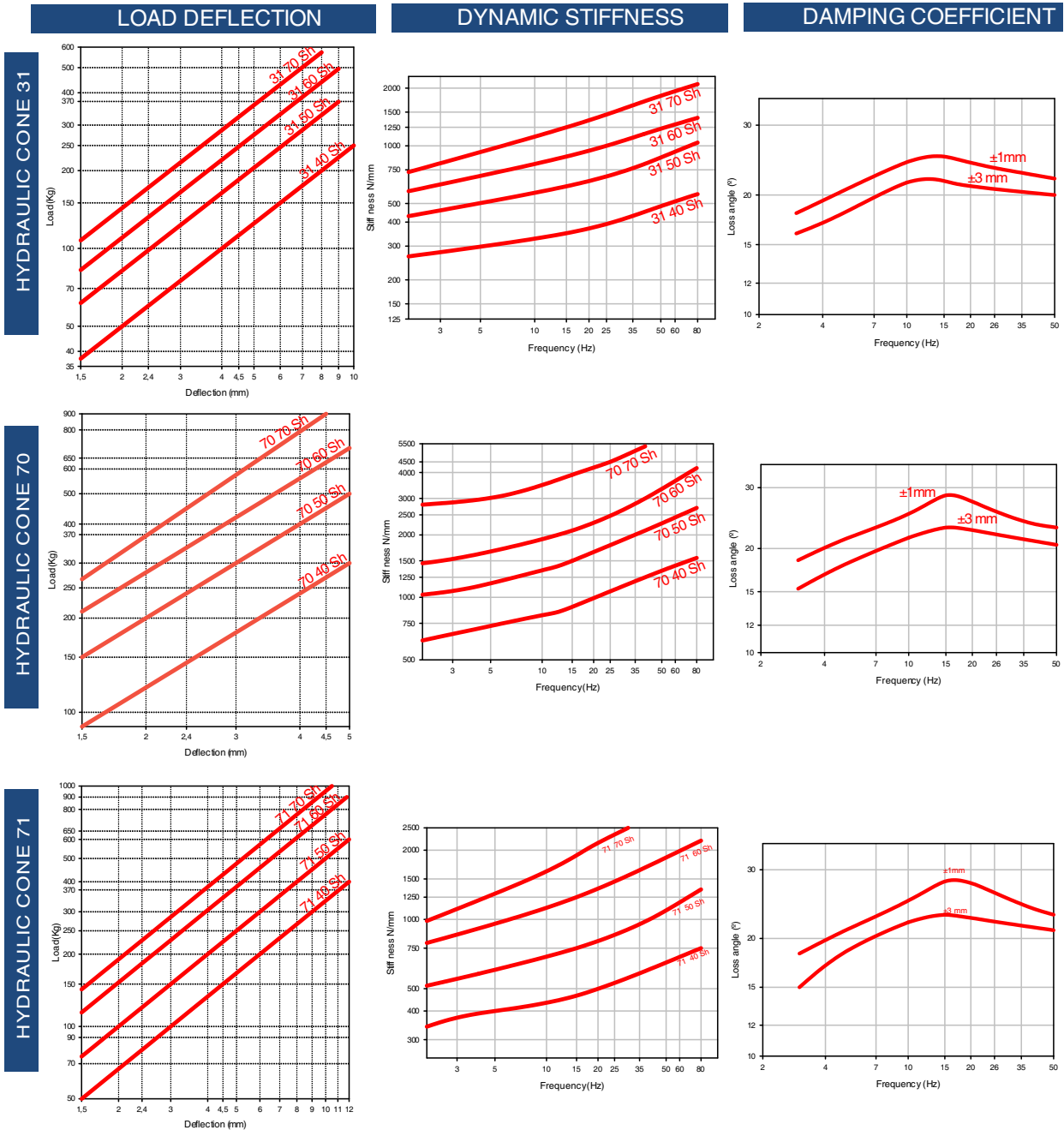
### DIMENSIONS

Type	A (mm.)	B (mm.)	C (mm.)	D (mm.)	E (mm.)	F (mm.)	H (mm.)	I (mm.)	J (mm.)	K (mm.)	L (mm.)	N (mm.)	O (mm.)	Load (kg.)	Shore	Code
HYDRAULIC CONE MOUNTS 31	M16	79,5	70	82,5	64	81	72,5	77	10,2	25	6	-	-	250	40 Sh	177081
														310	45 Sh	177085
														370	50 Sh	177082
														500	60 Sh	177083
														550	70 Sh	177084
HYDRAULIC CONE MOUNTS 70	M16	110	140	140	110	108	104,5	95	12,2	19,5	6	4	-	300	40 Sh	177051
														500	50 Sh	177052
														700	60 Sh	177053
														900	70 Sh	177054
HYDRAULIC CONE MOUNTS 71	M16	110	140	140	110	108	120	95	12,2	35	6	19	8	400	40 Sh	177055
														600	50 Sh	177056
														900	60 Sh	177057
														1000	70 Sh	177058

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### ELASTICAL PROPERTIES



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### OPERATION AND ASSEMBLY



Washers should be used, if the rubber surface is not covered with the contact surface.

### ADVANTAGES



High isolation without being affected the stability due the damping system of the hydraulic component.

Our vibration dampeners do this by the hydraulic fluid flowing from one chamber to the next as a result of the movement of the rubber component. An energy loss results from this process which tones down the behaviour of the vibration component.