

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

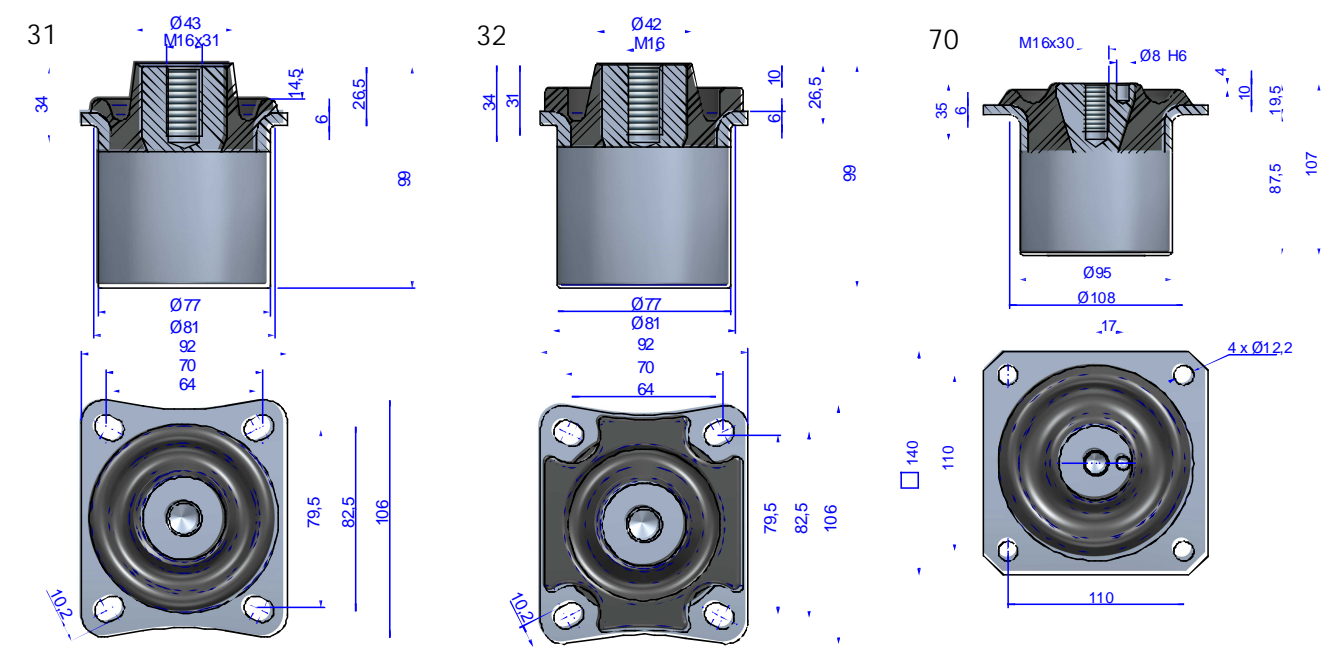
The AMC-MECANOCAUCHO HYDRAULIC CONE MOUNT is predominantly designed to insulate the vibration in engines and cabs in off-road vehicles (construction, agricultural and local authority vehicles). The HYDRAULIC CONE MOUNT has the necessary resilience to achieve a high level of decoupling. However, it also 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.



HYDRAULIC CONE MOUNTS

DRAWINGS

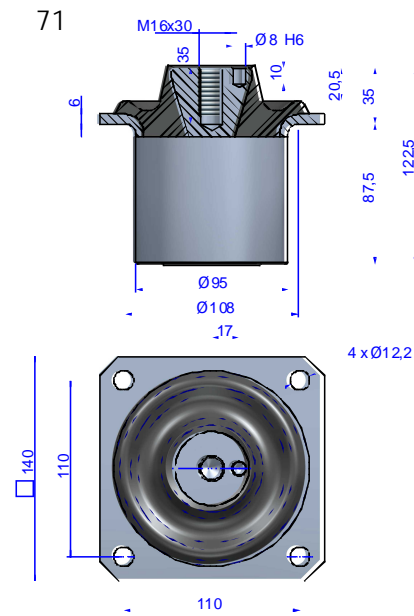


DIMENSIONS

Type	Weight (gr.)	Load (kg)	Shore	Code
HYDRAULIC CONE MOUNTS 31	1845	250	40 Sh	177081
		310	45 Sh	177085
		370	50 Sh	177082
		500	60 Sh	177083
		550	70 Sh	177084
HYDRAULIC CONE MOUNTS 32	1914	250	40 Sh	177104
		370	50 Sh	177105
		500	60 Sh	177106
		550	70 Sh	177107
HYDRAULIC CONE MOUNTS 70	2862	300	40 Sh	177051
		500	50 Sh	177052
		700	60 Sh	177053
		900	70 Sh	177054

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DRAWINGS



DIMENSIONS

Type	Weight (gr.)	Load (kg)	Shore	Code
HYDRAULIC CONE MOUNTS 71	2951	400	40 Sh	177055
		600	50 Sh	177056
		900	60 Sh	177057
		1000	70 Sh	177058

HYDRAULIC CONE MOUNTS

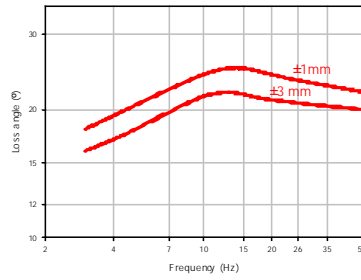
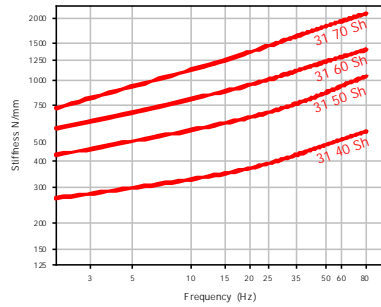
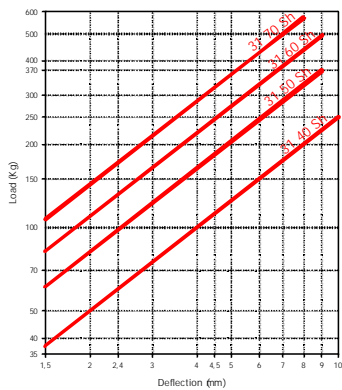
Elastic properties

LOAD DEFLECTION

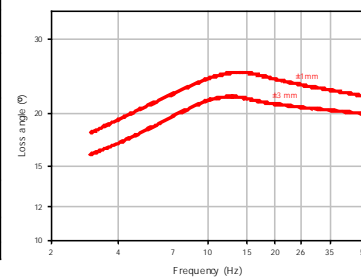
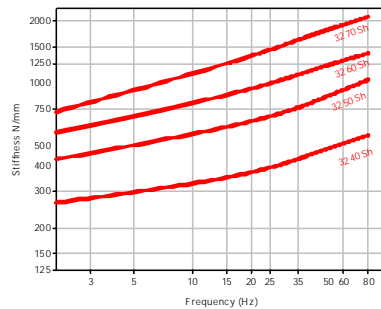
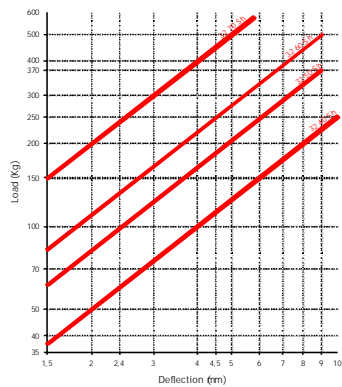
DYNAMIC STIFFNESS

DAMPING COEFFICIENT

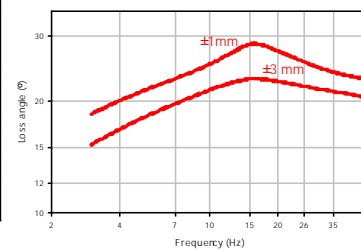
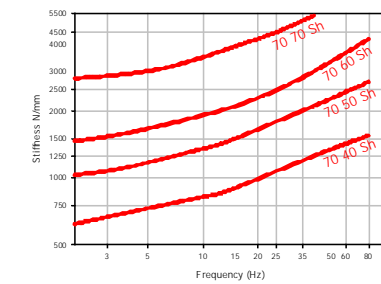
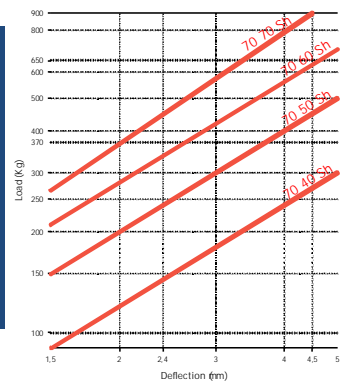
HYDRAULIC CONE 31



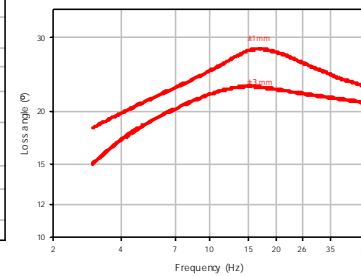
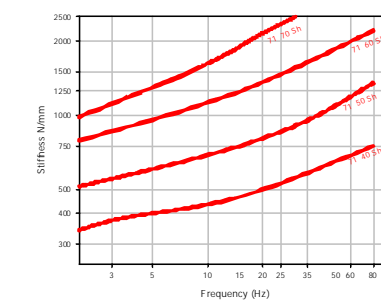
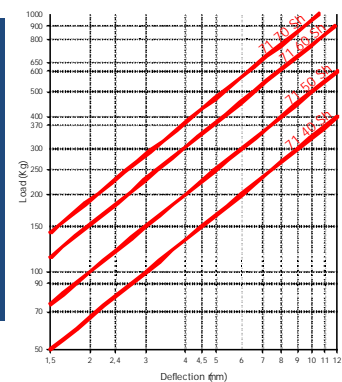
HYDRAULIC CONE 32



HYDRAULIC CONE 70



HYDRAULIC CONE 71



HYDRAULIC CONE MOUNTS

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.