AMC MECANOCAUCHO
PASCALEX
3755 Place Java, Local 160
Brossard, Qc.
J4Y 0E4
Contrôle Bruits Vibrations
Vibrations Noises Control

HYDRAULIC CONES

DESCRIPTION

The AMC-MECANOCAUCHO® hydrocone 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® hydrocone combines 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.

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 energetic dissipation results from this process.

TECHNICAL CHARACTERISTICS

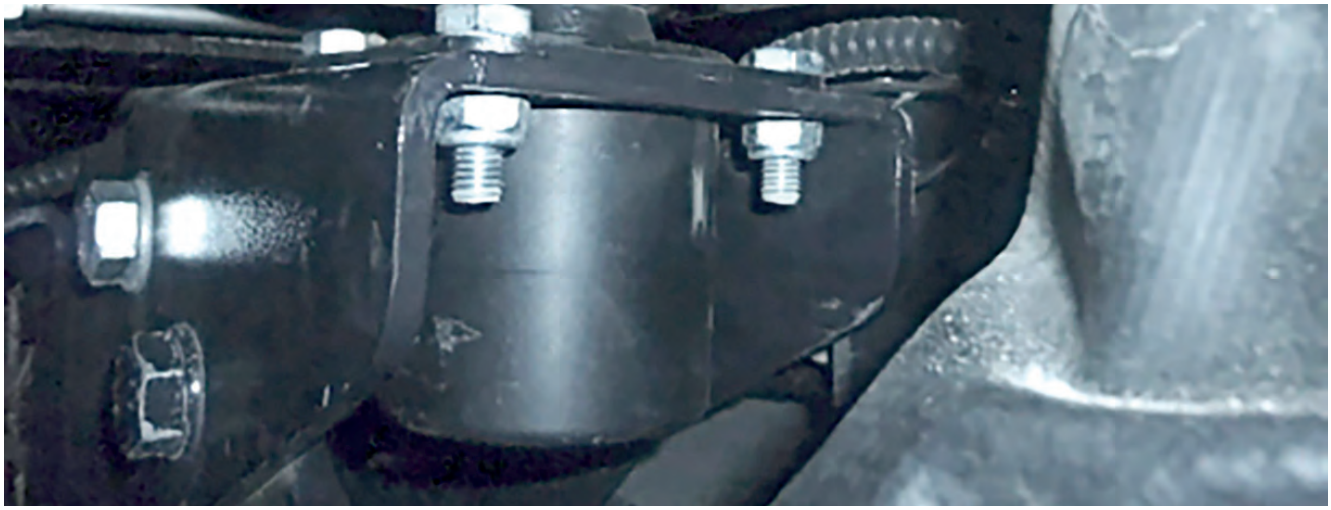
- AMC MECANOCAUCHO® hydraulic shock absorbers have an advanced breakaway device inside the bearing that prevents tensile forces on the elastomer by limiting its upward vibration stoke. The newly-developed internal structure of the vibration dampener consists of a metal part system. The elastomer is vulcanised 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® hydrocone is predominantly designed to insulate the vibration in engines and cabs in off-road vehicles (construction, agricultural and local authority vehicles).

The hydrocone 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 hydrocone.



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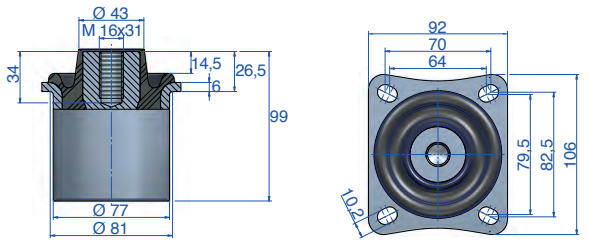
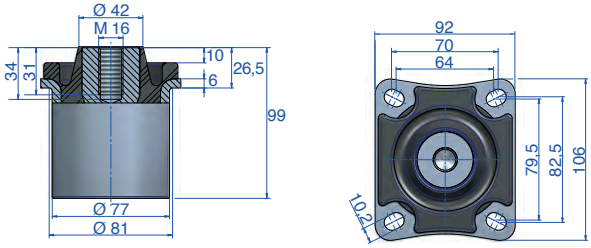
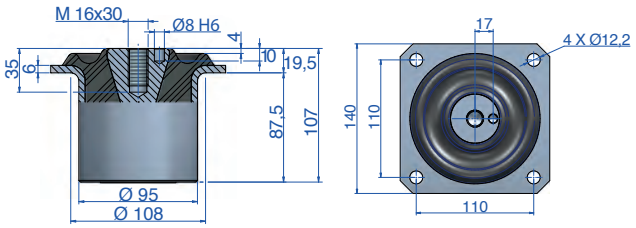
HYDRAULIC CONE 31



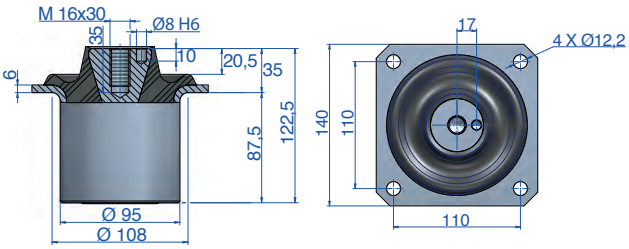
HYDRAULIC CONE 32



HYDRAULIC CONE 70



HYDRAULIC CONE 71



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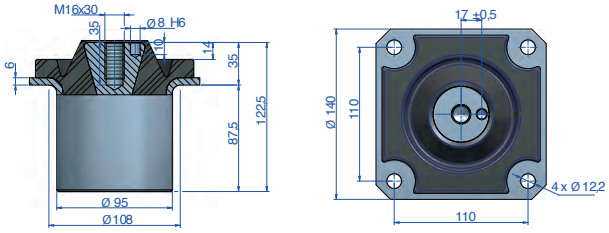

Type	A (mm.)	B (mm.)	C (mm.)	D (mm.)	E (mm.)	F (mm.)	H (mm.)	I (mm.)	J (mm.)	K (mm.)	L (mm.)	N (mm.)	O (mm.)	Code	Load (kg)	Shore
HYDRAULIC CONE MOUNTS 31	M16	79,5	70	82,5	64	81	72,5	77	10,2	25	6	-	-	**177081** **177085** **177082** **177083** **177084**	250 310 370 500 550	40 Sh 45 Sh 50 Sh 60 Sh 70 Sh
HYDRAULIC CONE MOUNTS 32	M16	79,5	70	82,5	64	81	72,5	77	10,2	26,5	6	10		**177104** **177105** **177106** **177107**	250 370 500 550	40 Sh 50 Sh 60 Sh 70 Sh
HYDRAULIC CONE MOUNTS 70	M16	110	140	140	110	108	104,5	95	12,2	19,5	6	4	-	**177051** **177052** **177053** **177054**	300 500 700 900	40 Sh 50 Sh 60 Sh 70 Sh
HYDRAULIC CONE MOUNTS 71	M16	110	140	140	110	108	120	95	12,2	35	6	19	8	**177055** **177056** **177057** **177058**	400 600 900 1000	40 Sh 50 Sh 60 Sh 70 Sh
HYDRAULIC CONE MOUNTS 72	M16	110	140	140	110	108	120	95	12,2	35	6	14	8	**177294** **177295** **177296** **177297**	400 600 900 1000	40 Sh 50 Sh 60 Sh 70 Sh

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

Type	Øext (mm)	Øint (mm)	Thickness (mm)	Code
HYDRAULIC CONE MOUNTS 31	80	16,5	5	**606488**
HYDRAULIC CONE MOUNTS 32	96	16,5	5	**610147**
HYDRAULIC CONE MOUNTS 70	110	16,5	5	**610296**
HYDRAULIC CONE MOUNTS 71	110	16,5	5	**610296**
HYDRAULIC CONE MOUNTS 72	130	16,5	5	**610305**

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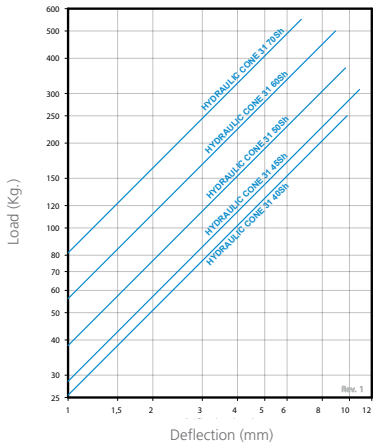
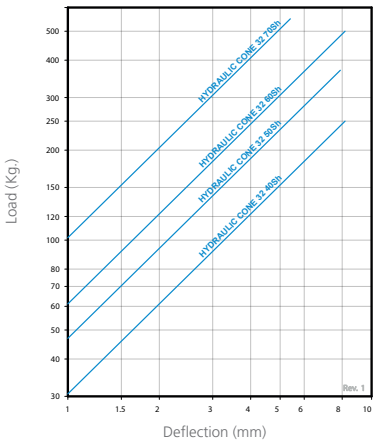
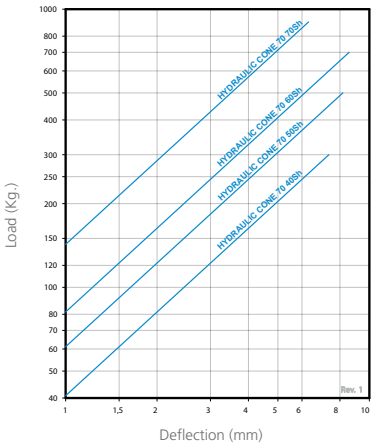
HYDRAULIC CONES 70

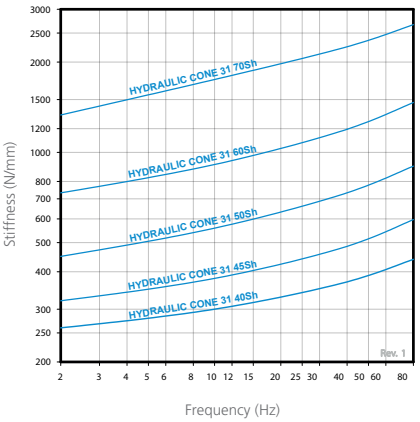
LOAD DEFLECTION

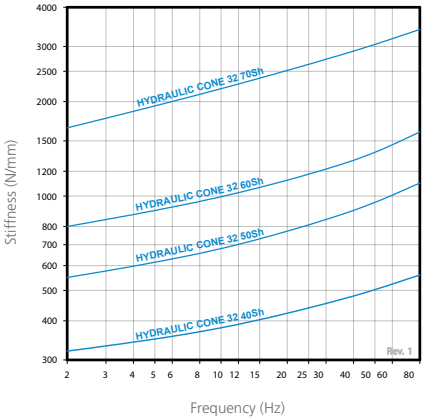


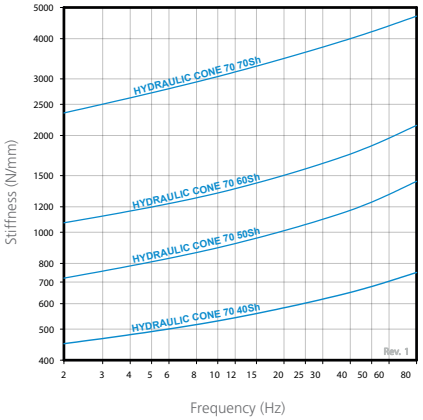




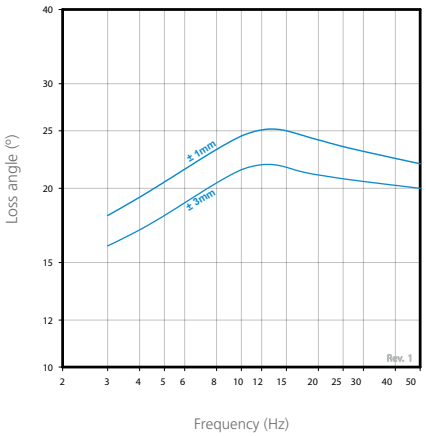
DYNAMIC STIFFNESS

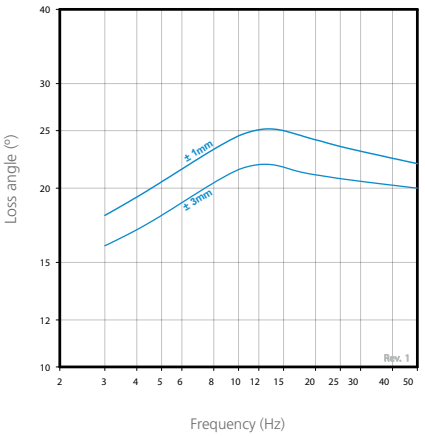


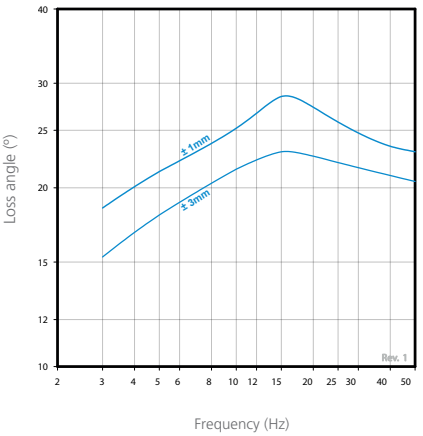




DAMPING COEFFICIENT







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