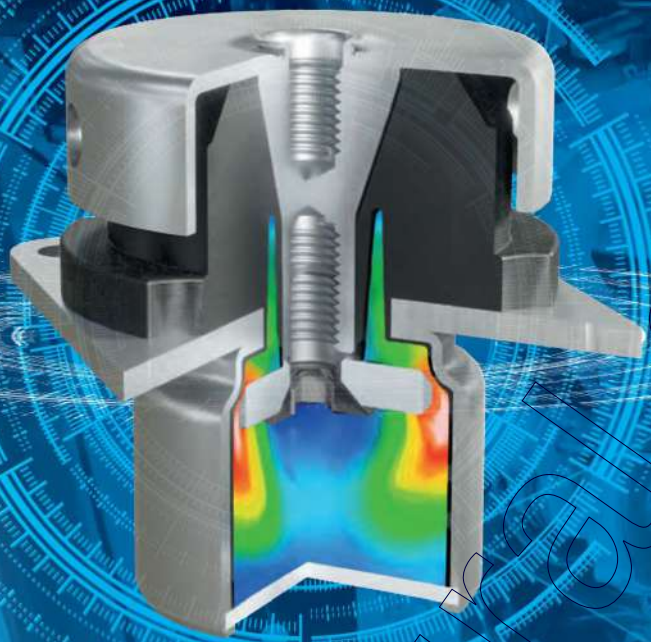
AMC
MECANOCAUCHO



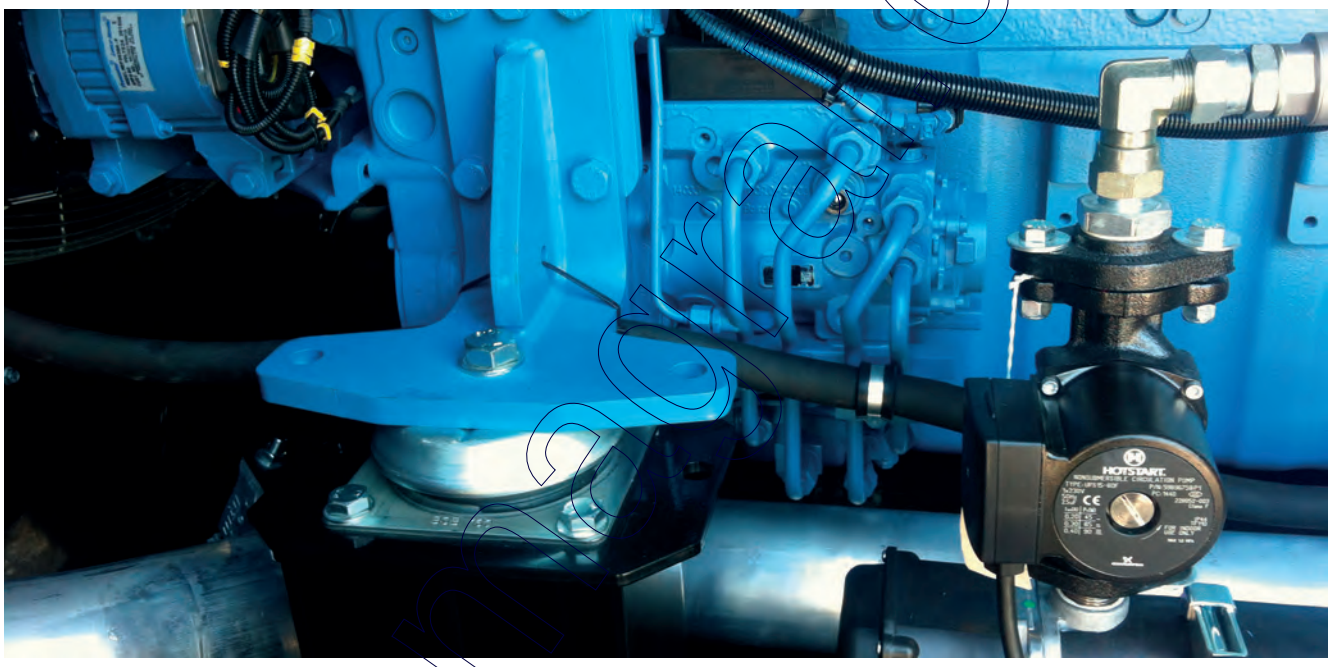
RUBBER METAL

Anti vibration mounts
AMC MECANOCAUCHO®

APPLICATIONS

Our products are used in sectors such as:

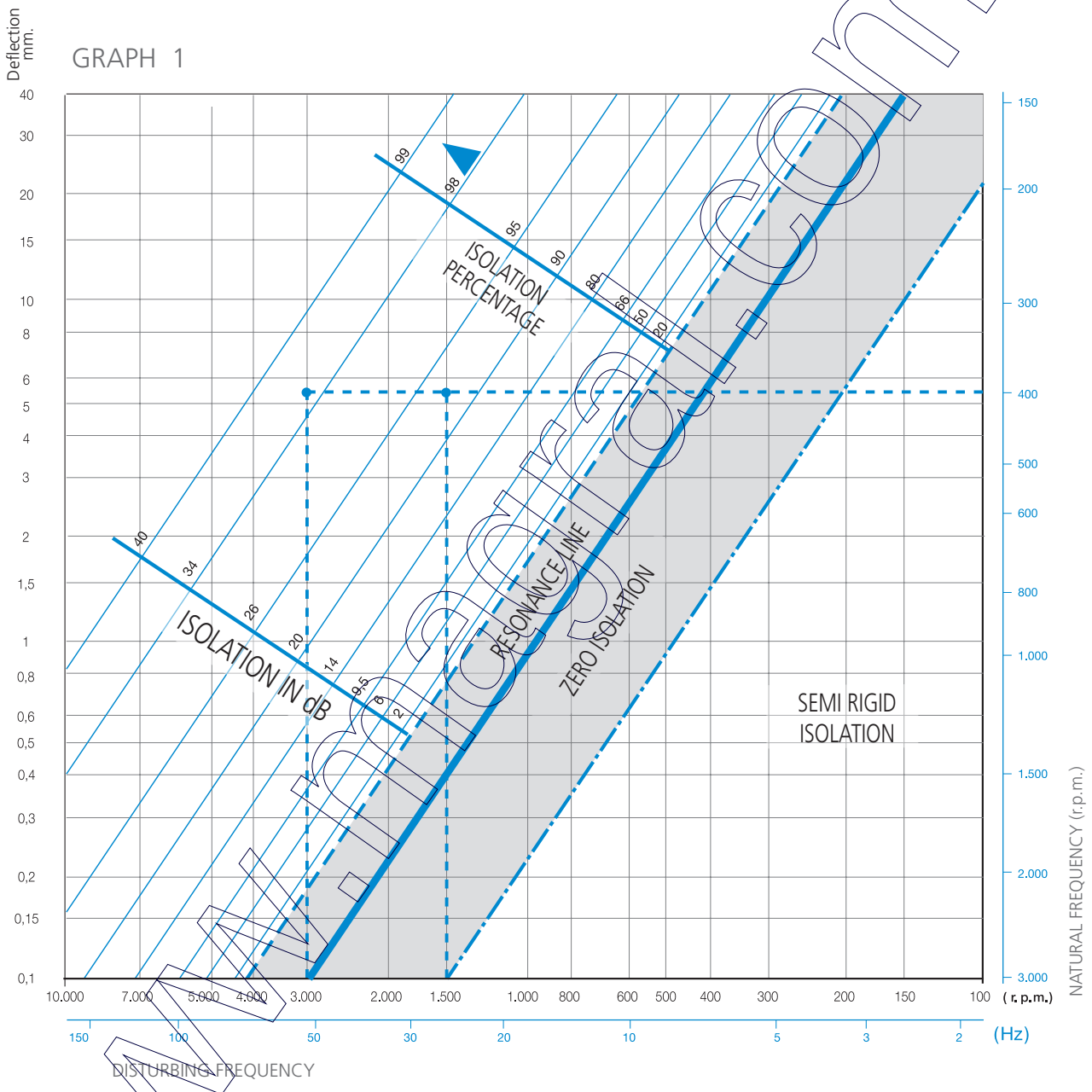
- Generation of electrical energy
- Air compression
- Pumping of liquids
- Industrial vehicles
- Machine Tools
- Marine propulsion and auxiliary equipment
- Agricultural and construction equipment machinery
- Acoustic isolation of premises and sites
- Vibrating screens, Hoppers, Silos, Feeder screens



* AMC S.A. reserves the right to modify the design and manufacture of the materials presented in this catalogue without prior notice.

VIBRATION ISOLATION EFFICIENCY GRAPH

GRAPH 1



INDEX DEPENDING ON THE APPLICATION

MOBILE APPLICATIONS: ENGINES, GENERATORS, COMPRESSOR PUMPS

STATIC APPLICATIONS: ENGINES, GENERATORS, HYDRAULIC PUMPS AND COMPRESSORS

BUSHINGS

MOUNTS FOR HEAVY LOADS

MACHINE LEVELLING MOUNTS

ELASTIC COUPLINGS

RUBBER BLOCKS AND MATS

BOBBINS & BUFFERS

OTHERS

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

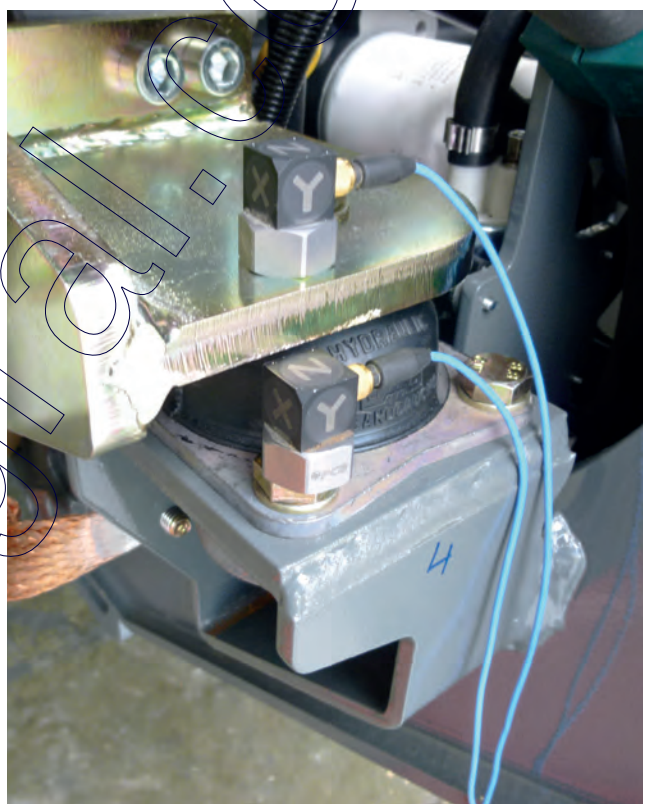
- The AMC MECANOCAUCHO® Hydraulic mounts have an interlocking metal component that provides a fail-safe protection for mobile applications. This device limits the ascending vertical movement when the mounting is submitted to shocks at traction.
- The thickness of the metal parts make this mount robust and suitable for off-road applications. The metal parts have a suitable anticorrosive treatment for outdoor applications. RoHs compliant.

APPLICATIONS

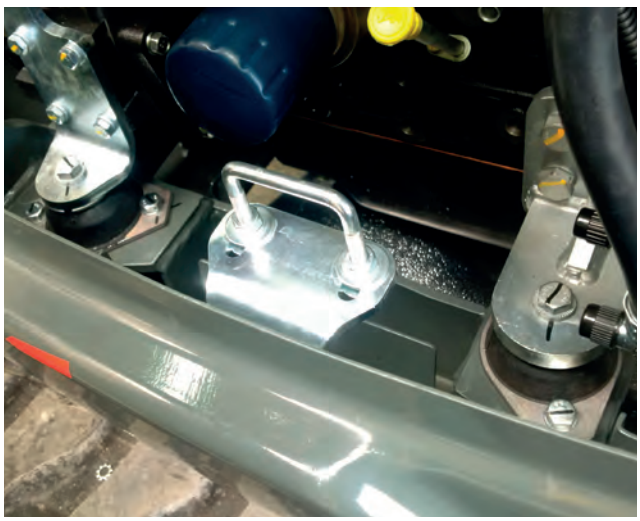
The AMC MECANOCAUCHO® Hydraulic mounts have been primarily designed as engine and operator cab isolator in vehicular off highway and agricultural applications.

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.

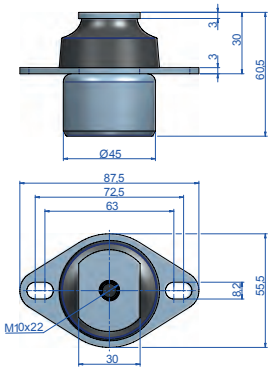
It is also interesting for cabins where vibration isolation is required for operator comfort purposes but as well stability when the cabin is submitted to transient shocks.



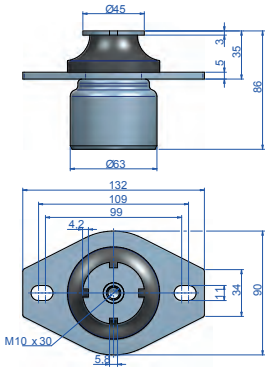
Picture of an engine application.



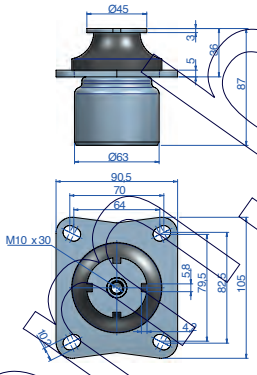
HYDRAULIC MINI



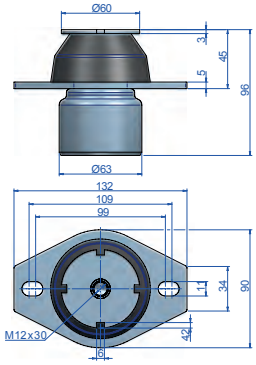
HYDRAULIC SMALL



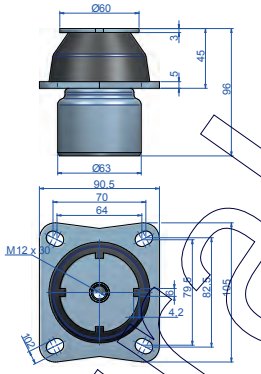
HYDRAULIC SMALL RECT.



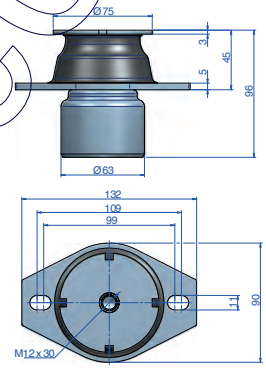
HYDRAULIC MEDIUM



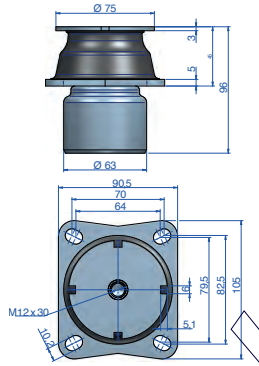
HYDRAULIC MEDIUM RECT.



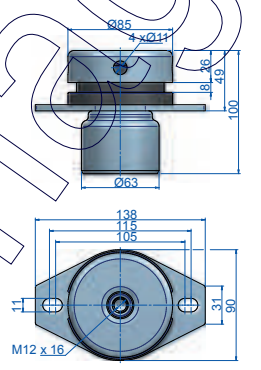
HYDRAULIC MEDIUM HS2



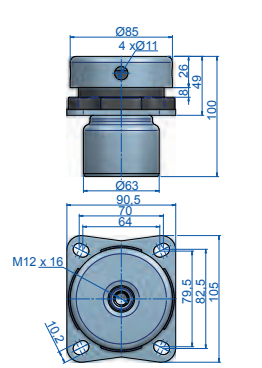
HYDRAULIC MEDIUM HS4



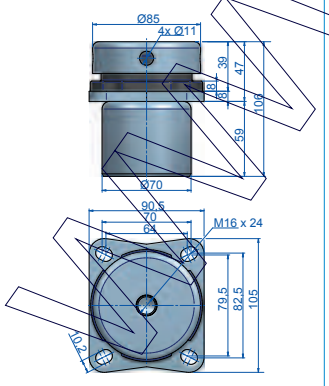
HYDRAULIC HSR



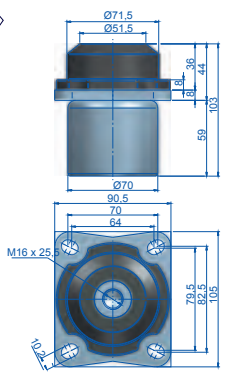
HYDRAULIC HSR RECT



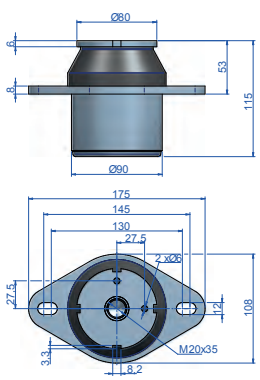
HYDRAULIC XR C



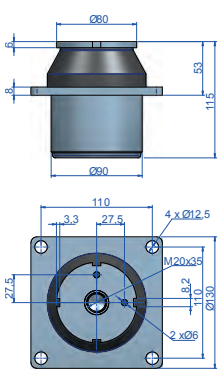
HYDRAULIC XR



HYDRAULIC LARGE

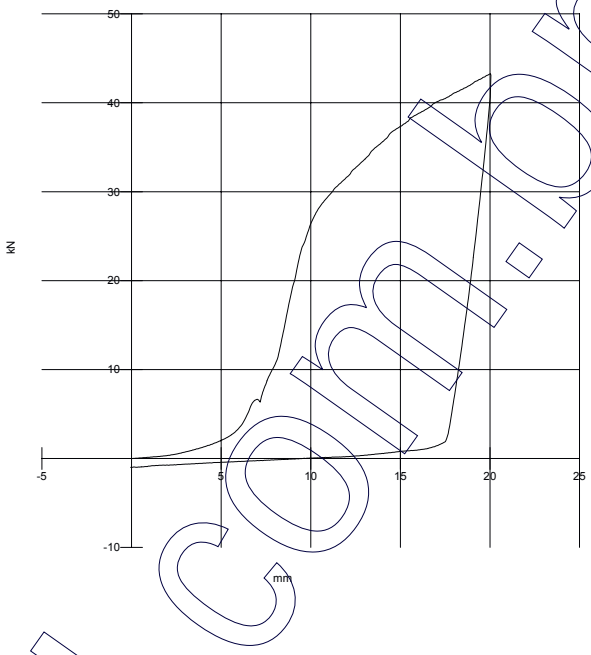


HYDRAULIC LARGE RECT.



Type	Tightening torque Max (Nm)	Weight (gr)	Max. Load (kg)	Shore	Code
MINI	41	335	20	40 Sh	**177031**
			30	50 Sh	**177032**
			50	60 Sh	**177033**
			70	70 Sh	**177034**
SMALL	41	917	60	40 Sh	**177001**
			100	50 Sh	**177002**
			145	60 Sh	**177003**
			180	70 Sh	**177013**
SMALL RECT.	41	938	60	40 Sh	**177015**
			100	50 Sh	**177016**
			145	60 Sh	**177017**
			180	70 Sh	**177018**
MEDIUM	71	1030	100	40 Sh	**177004**
			150	50 Sh	**177005**
			200	60 Sh	**177006**
			250	70 Sh	**177011**
MEDIUM RECT.	71	1050	100	40 Sh	**177022**
			150	50 Sh	**177021**
			200	60 Sh	**177023**
			250	70 Sh	**177024**
MEDIUM HS 2	71	1030	125	40 Sh	**177045**
			200	50 Sh	**177046**
			250	60 Sh	**177047**
			350	70 Sh	**177048**
MEDIUM HS 4	71	1050	125	40 Sh	**177035**
			200	50 Sh	**177036**
			250	60 Sh	**177037**
			350	70 Sh	**177038**
HSR	71	1305	125	40 Sh	**177306**
			180	50 Sh	**177307**
			250	60 Sh	**177308**
			300	70 Sh	**177309**
HSR RECT	71	1302	125	40 Sh	**177388**
			180	50 Sh	**177389**
			250	60 Sh	**177390**
			300	70 Sh	**177391**
XR C	175	1680	125	40 Sh	**177396**
			200	50 Sh	**177397**
			290	60 Sh	**177398**
			380	70 Sh	**177399**
XR	170	1440	125	40 Sh	**177392**
			200	50 Sh	**177393**
			290	60 Sh	**177358**
			380	70 Sh	**177395**
LARGE	350	2445	235	40 Sh	**177007**
			295	50 Sh	**177008**
			345	60 Sh	**177009**
			410	70 Sh	**177014**
LARGE RECT.	350	2713	235	40 Sh	**177041**
			295	50 Sh	**177042**
			345	60 Sh	**177043**
			410	70 Sh	**177044**

TRACTION TEST (Hydraulic medium square)



OPERATION AND ASSEMBLY

A hook wrench should be used in the slots to avoid the rotation movement of the rubber.

TECHNICAL ADVICE FOR FOPS ROPS APPROVAL

AMC-MECANOCAUCHO's technical department will be pleased to offer you advice on correct installation procedures to achieve FOPS/ ROPS tests approvals.

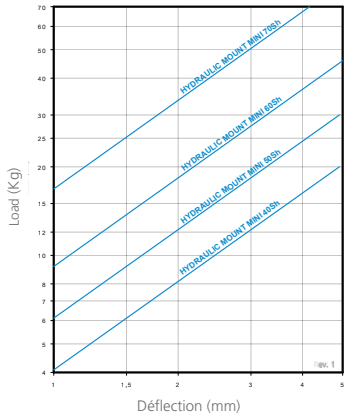
These pictures show a typical traction test on rectangular hydraulic medium mount subjected to loads up to 4 Tonnes without destruction of the part. For more information on this topic, please contact our technical department.

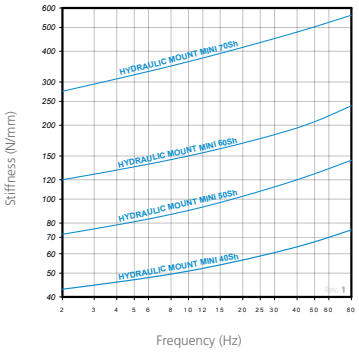
DAMPING COEFFICIENT

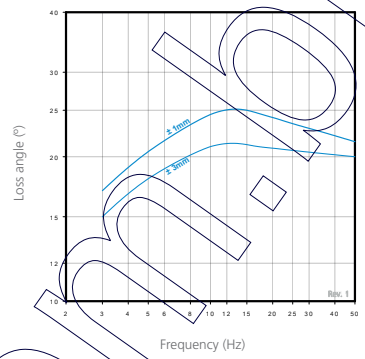
DYNAMIC STIFFNESS

LOAD DEFLECTION

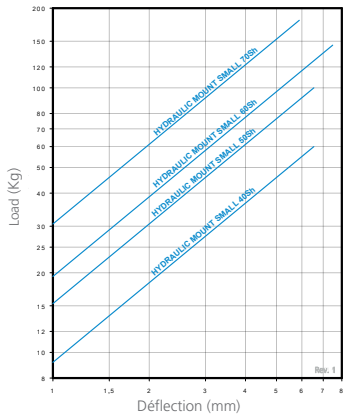
MINI

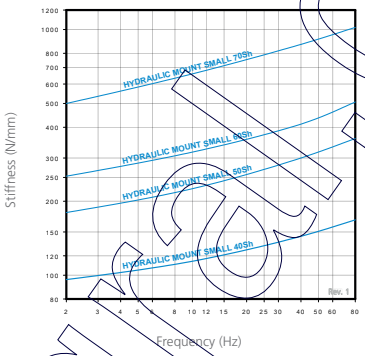


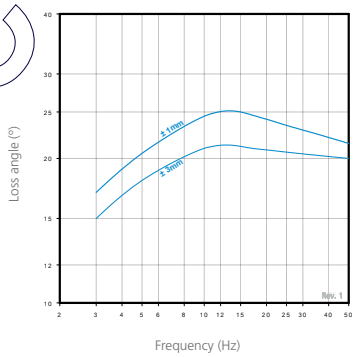




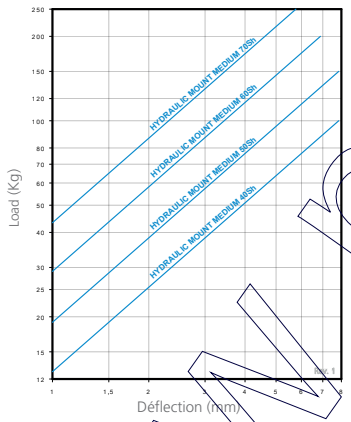
SMALL

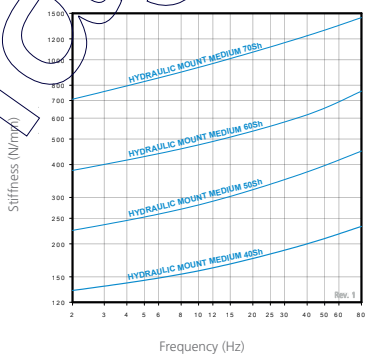


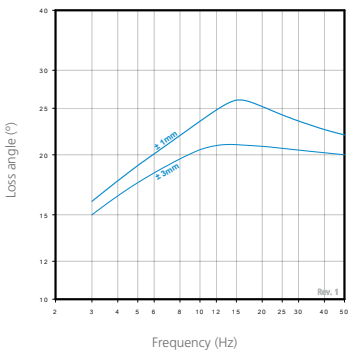




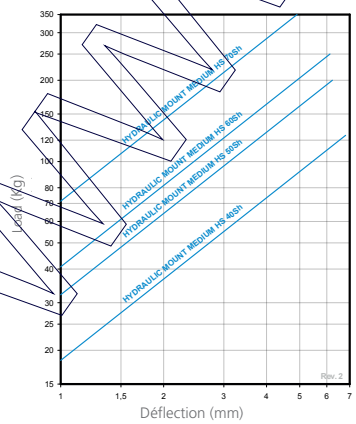
MEDIUM

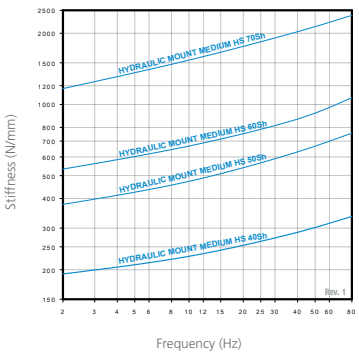


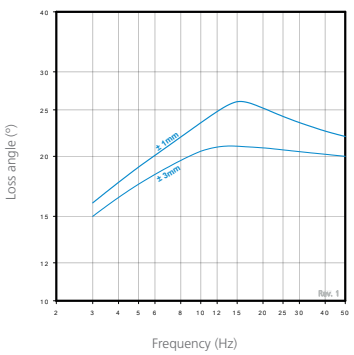




MEDIUM HS





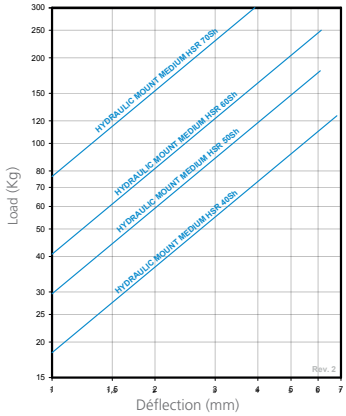


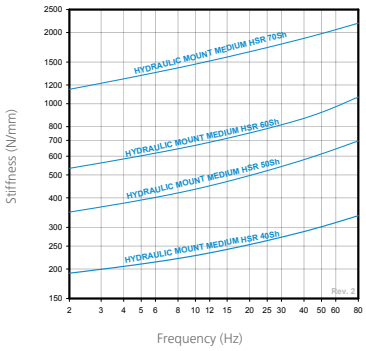
DAMPING COEFFICIENT

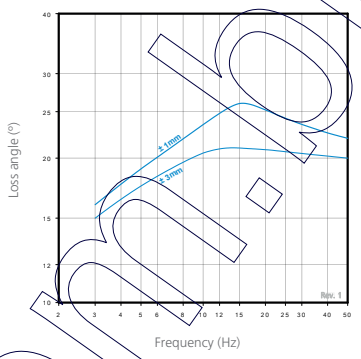
DYNAMIC STIFFNESS

LOAD DEFLECTION

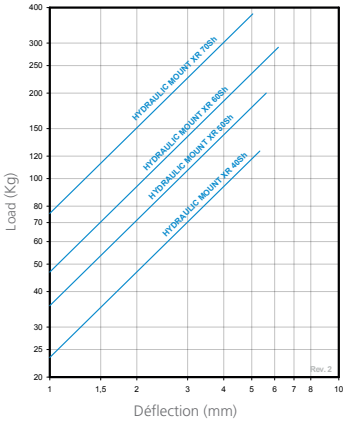
MEDIUM HSR

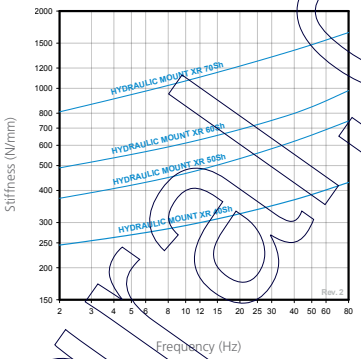


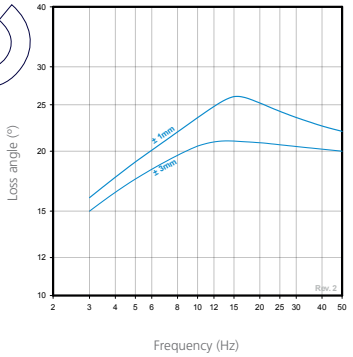




XR







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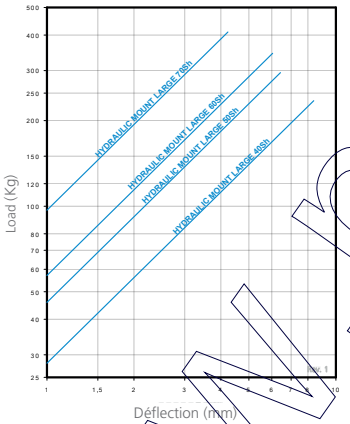
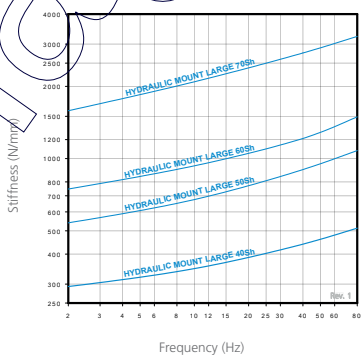
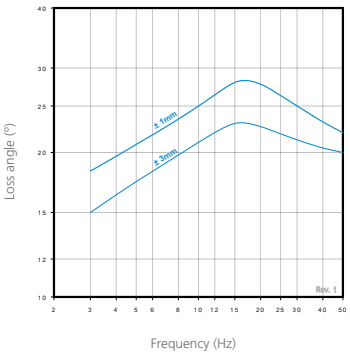






HYDRAULIC CONES

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

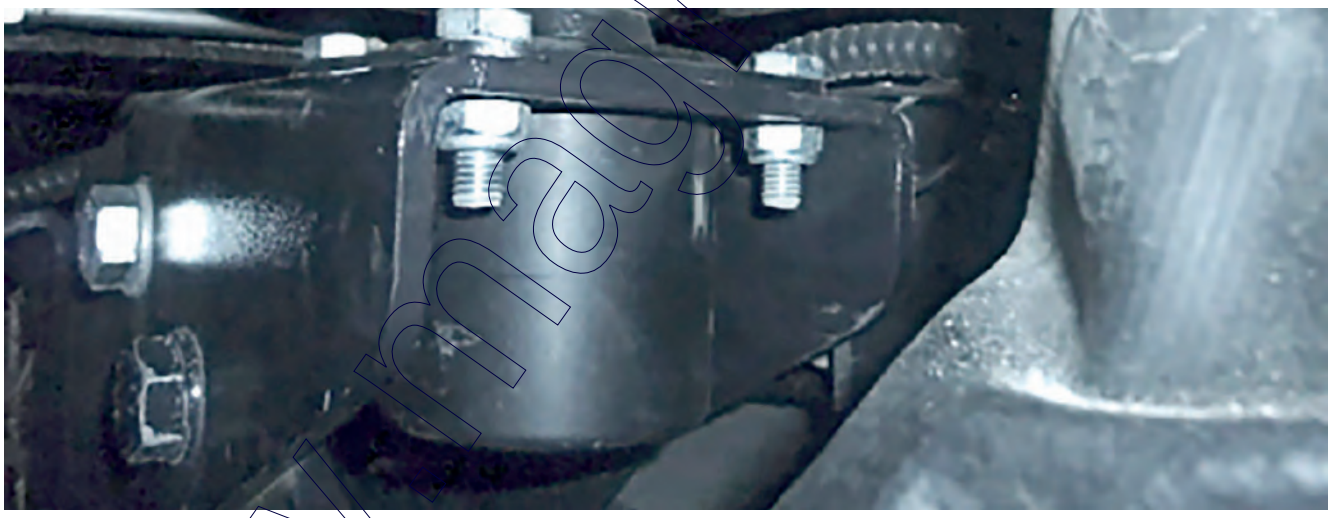
- AMC MECANOCAUCHO® hydraulic shock absorbers have an advanced breakaway device inside the bearing that prevents tensile forces on the elastomer by limiting its upward vibration stoke. The newly-developed internal structure of the vibration dampener consists of a metal part system. The elastomer is vulcanised 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

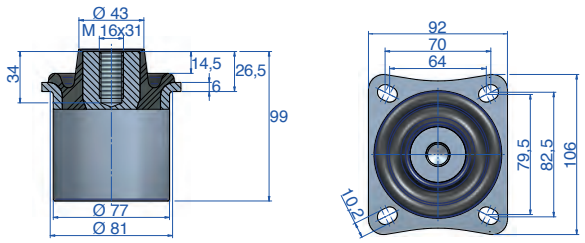
The AMC MECANOCAUCHO® hydrocone is predominantly designed to insulate the vibration in engines and cabs in off-road vehicles (construction, agricultural and local authority vehicles).

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.

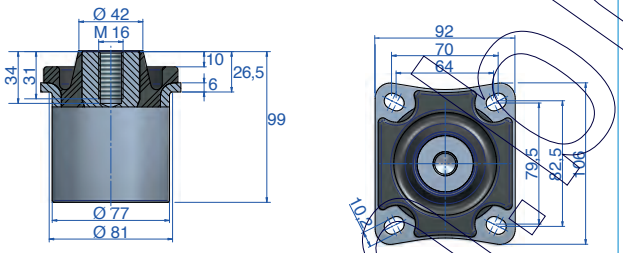
Another advantage becomes apparent with variable speed applications which are within the resonance frequency range in normal operation. This resonance is significantly reduced with the hydrocone.



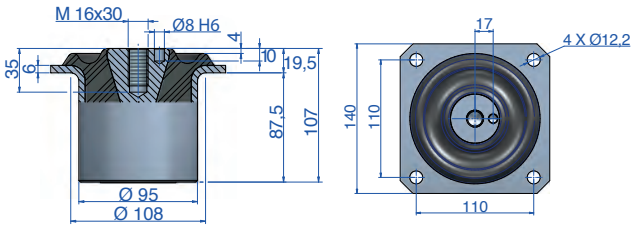
HYDRAULIC CONE 31



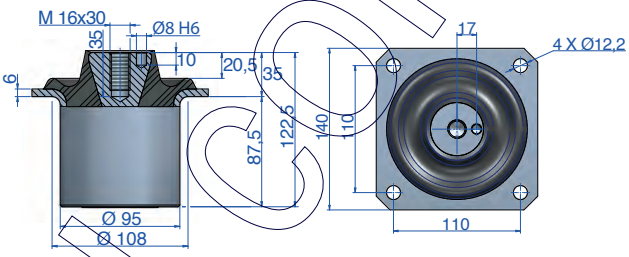
HYDRAULIC CONE 32



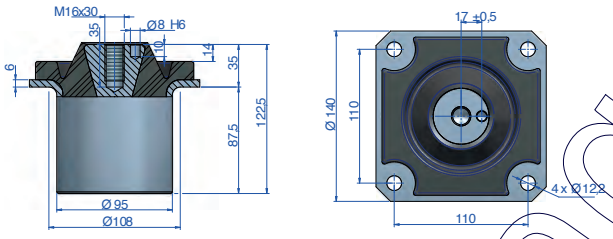
HYDRAULIC CONE 70



HYDRAULIC CONE 71



HYDRAULIC CONE 72



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**

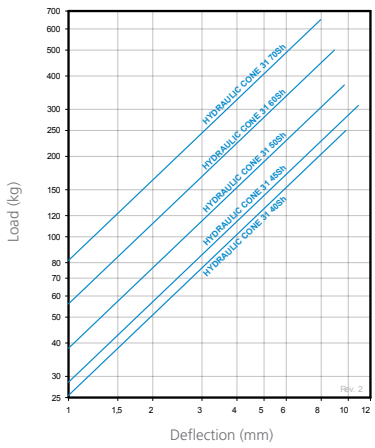
MECANOCAUCHO

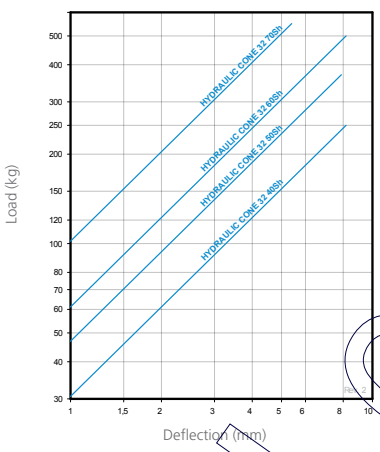
HYDRAULIC CONES 31

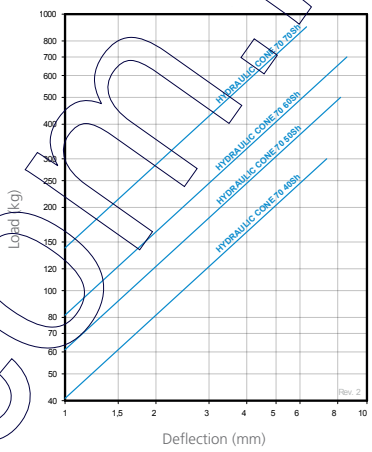
HYDRAULIC CONES 32

HYDRAULIC CONES 70

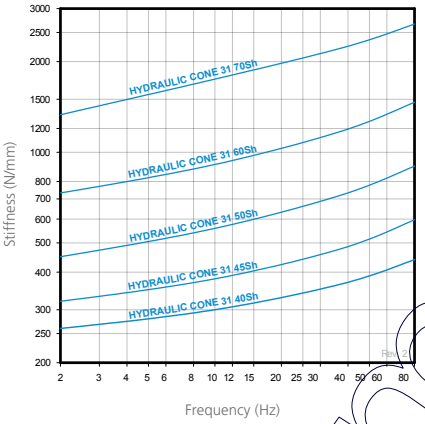
LOAD DEFLECTION

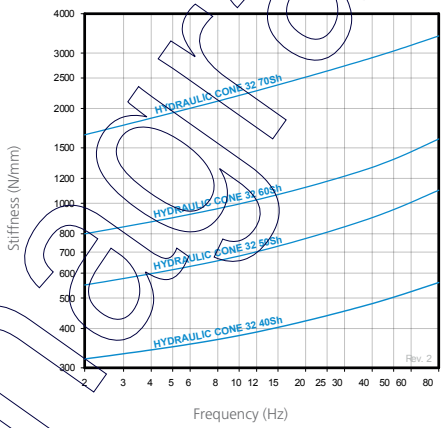


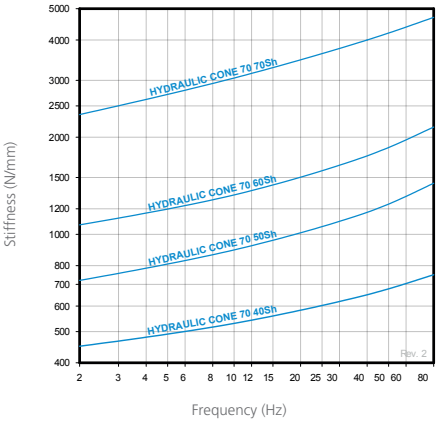




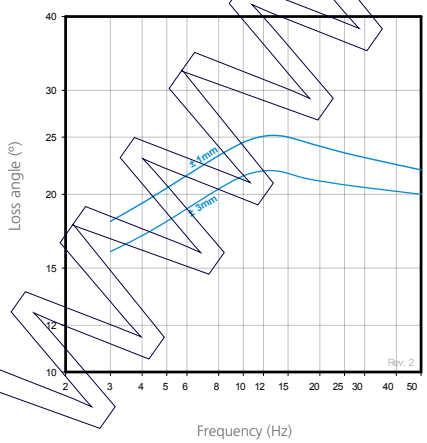
DYNAMIC STIFFNESS

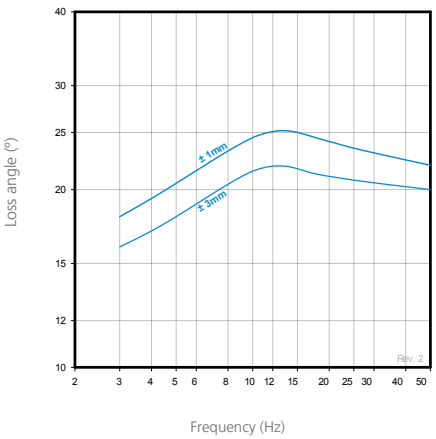


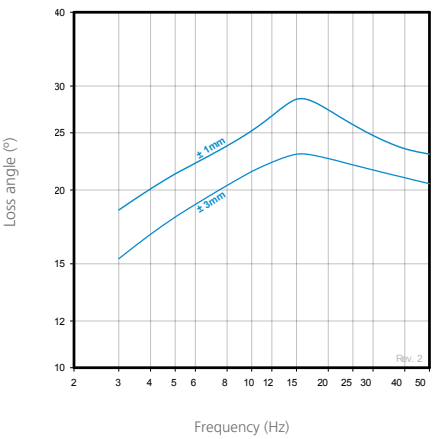




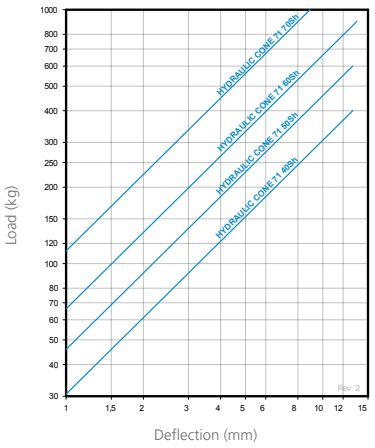
DAMPING COEFFICIENT

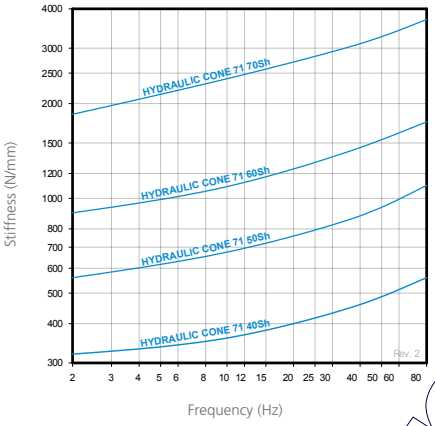


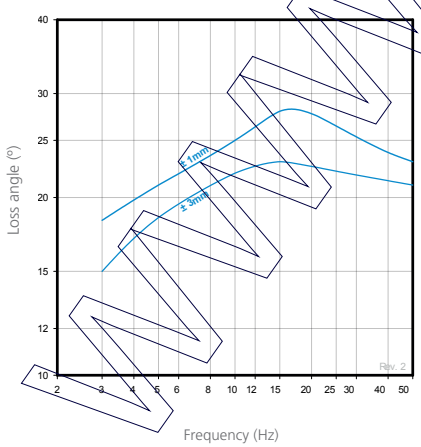




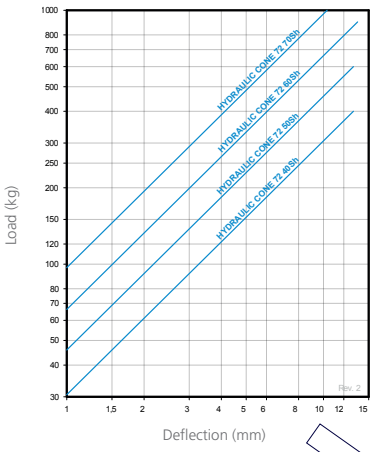
HYDRAULIC CONES 71

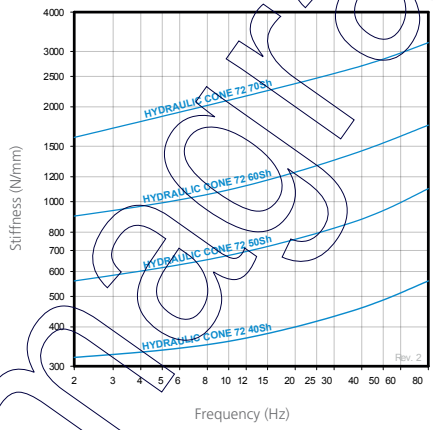


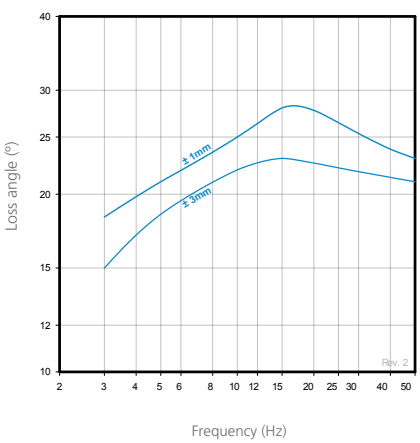




HYDRAULIC CONES 72







CONES

DESCRIPTION

The AMC MECANOCAUCHO® cones work the rubber in shear compression. They are composed of two parallel conical metal parts. They have two washers, one as a buffer and the other for centering.

TECHNICAL CHARACTERISTICS

- The AMC MECANOCAUCHO® Cone mounts are safe and stable elements. They do not allow the suspended elements to tilt, while being flexible enough to avoid the transmission of noise and vibration through the structure.
- They are supplied with stop and centering washers. This renders deflection above the limits of the Mecanocaucho® Cones impossible, even at extreme loads.
- The washers protect the natural rubber (which is highly elastic and highly resistant) from ozone and aging, as well as from metal knocks and dripping oil. The characteristic deflection curves of the AMC MECANOCAUCHO® Cone mounts with centering washer are quite linear, increasing progressively as the load increases. Thanks to this they can safely dampen overloads of up to three times the maximum admissible load.

APPLICATIONS

The AMC MECANOCAUCHO® cones have been designed to use them in engines and auxiliary machinery for static applications and for applications in all type of vehicles. Also used for cabs. You can contact our technical department.

CONICAL MOUNTS WITH CUTOUTS

The cutouts on the rubber section offer different horizontal/vertical stiffness ratios. This feature is specially interesting for those applications where a lower stiffness is required in one of the axes.

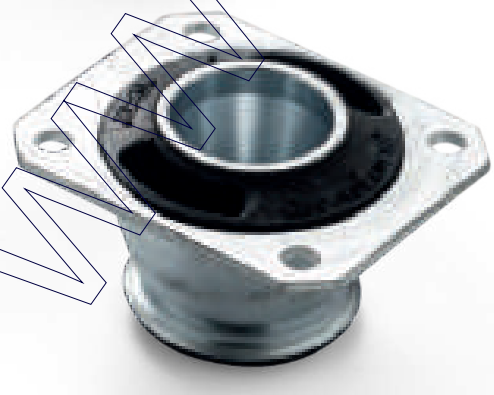
Our technical department can provide you the elastical constants and can recommend you the optimal position of the cutouts.

CONE WITH CUTOUTS

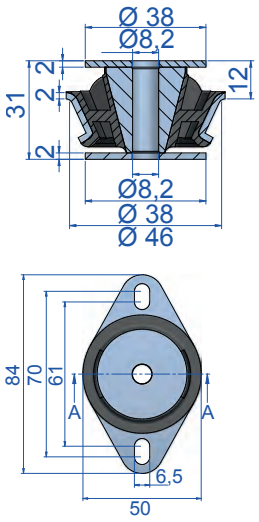
Type	Weight (gr.)	Code	Load (kg)	Shore
00	126	**137007**	25	45 Sh
		137008	50	60 Sh
		137009	75	70 Sh
10	406	**137001**	75	45 Sh
		137002	140	60 Sh
		137003	210	70 Sh
12	407	**137914**	80	45 Sh
		137916	120	55 Sh
		137918	200	70 Sh
20	554	**137031**	120	45 Sh
		137034	200	60 Sh
		137039	330	70 Sh
30	1167	**137041**	140	40 Sh
		137043	190	50 Sh
		137042	300	60 Sh
		137044	370	70 Sh
35	1328	**137065**	200	45 Sh
		137067	450	60 Sh
		137068	760	70 Sh
38	1438	**137961**	300	40 Sh
		137962	400	50 Sh
		137963	650	60 Sh
120 NP	6890	**137871**	440	45 Sh
		137872	720	55 Sh

SOLID CONE

CONE WITH CUTOUTS

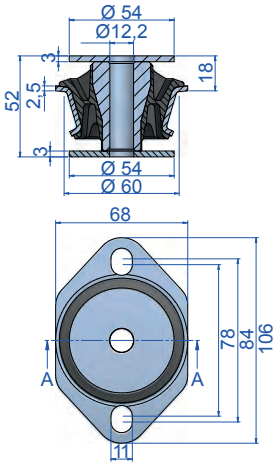


CONE TYPE 00



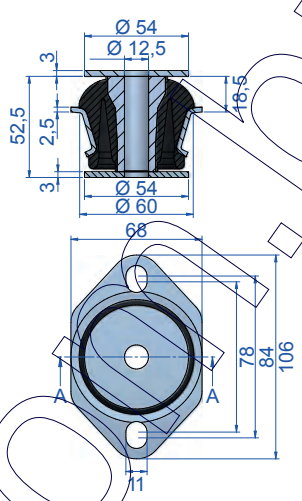
Top Washer Cone 00 code 610053
Lower Washer Cone 00 code 610053

CONE TYPE 10



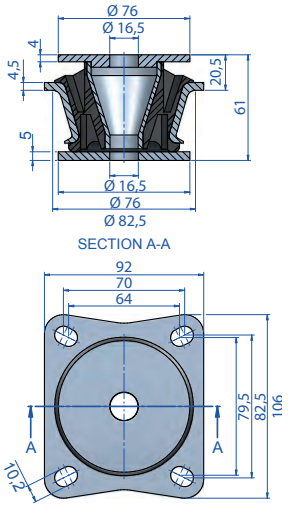
Top Washer Cone 10 code 611068
Lower Washer Cone 10 code 611068

CONE TYPE 12



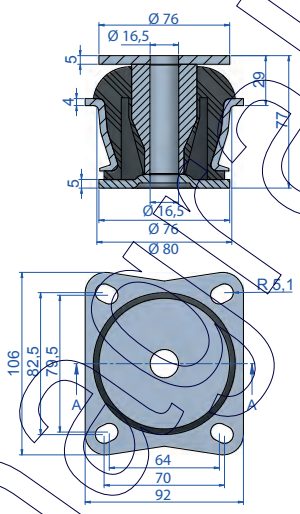
Top Washer Cone 12 code 611068
Lower Washer Cone 12code 611068

CONE TYPE 20



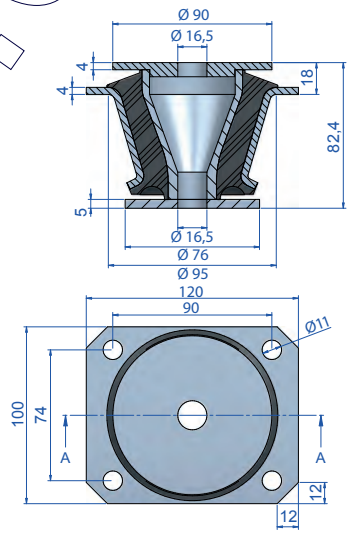
Top Washer Cone 20 code 610049
Lower Washer Cone 20 code 610050

CONE TYPE 30



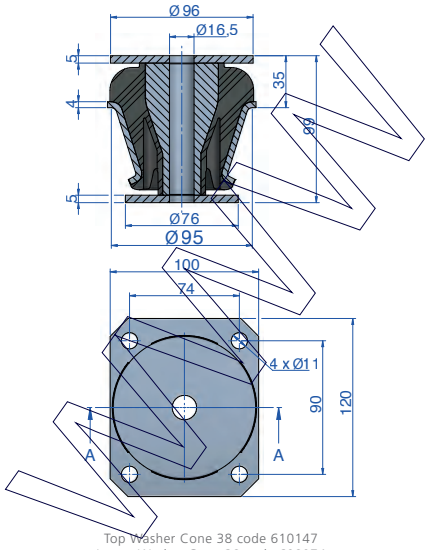
Top Washer Cone 30 code 608074
Lower Washer Cone 30 code 608125

CONE TYPE 35



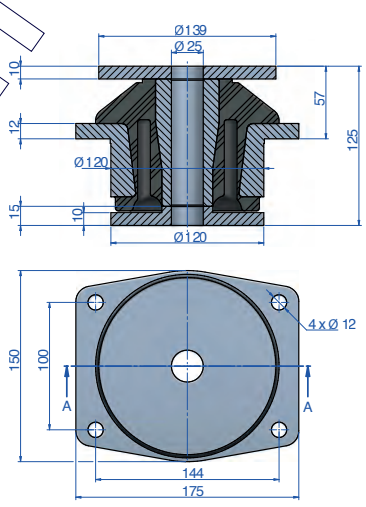
Top Washer Cone 35 code 608082
Lower Washer Cone 35 code 608097

CONE TYPE 38



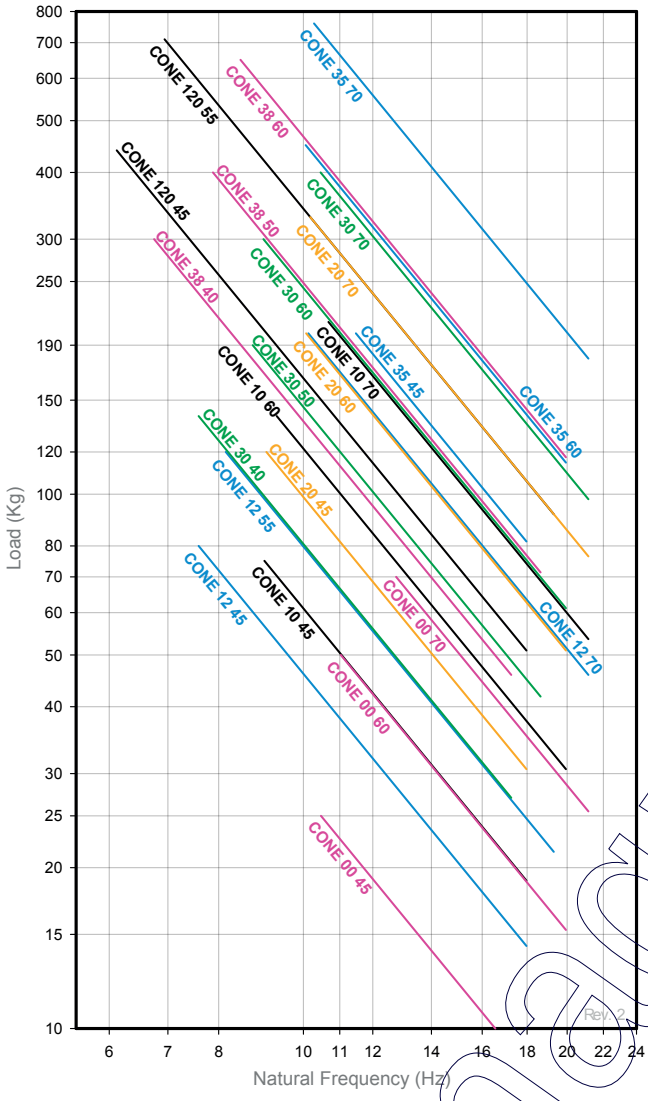
Top Washer Cone 38 code 610147
Lower Washer Cone 38 code 608074

CONE TYPE 120 NP

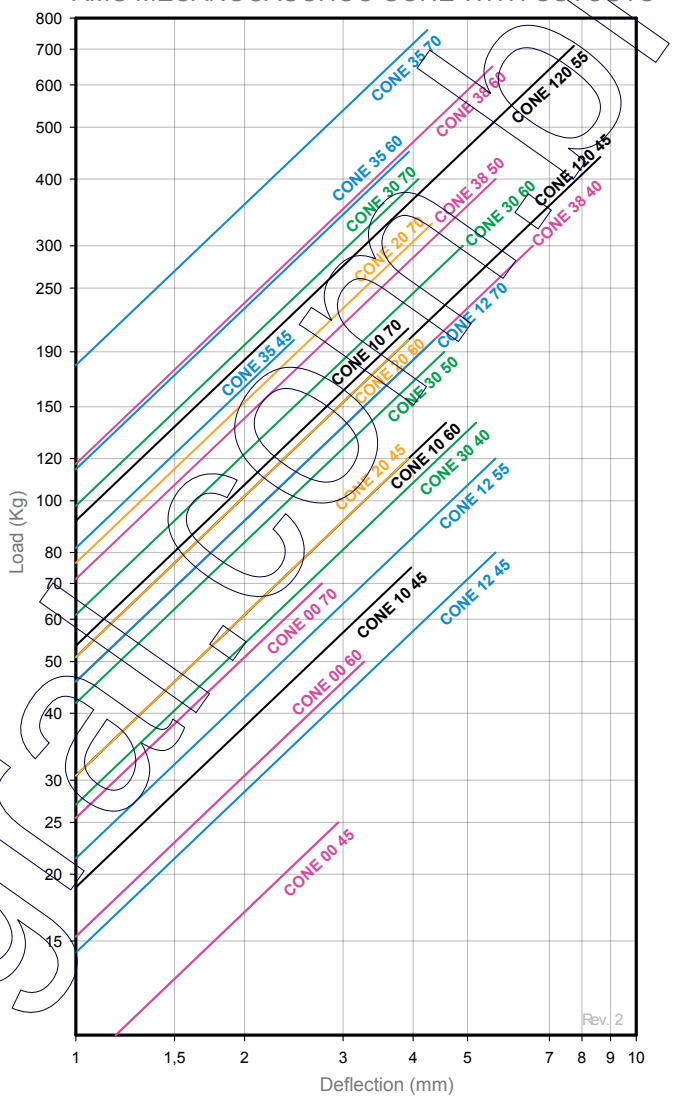


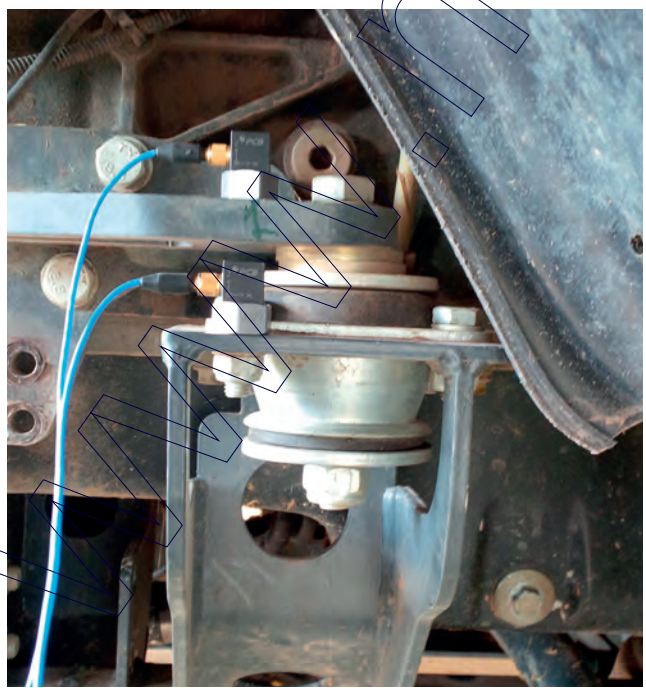
Top Washer Cone 120 code 606378
Lower Washer Cone 120 code 606379

NATURAL FREQUENCY
AMC MECANOCAUCHO® CONE WITH CUTOUTS



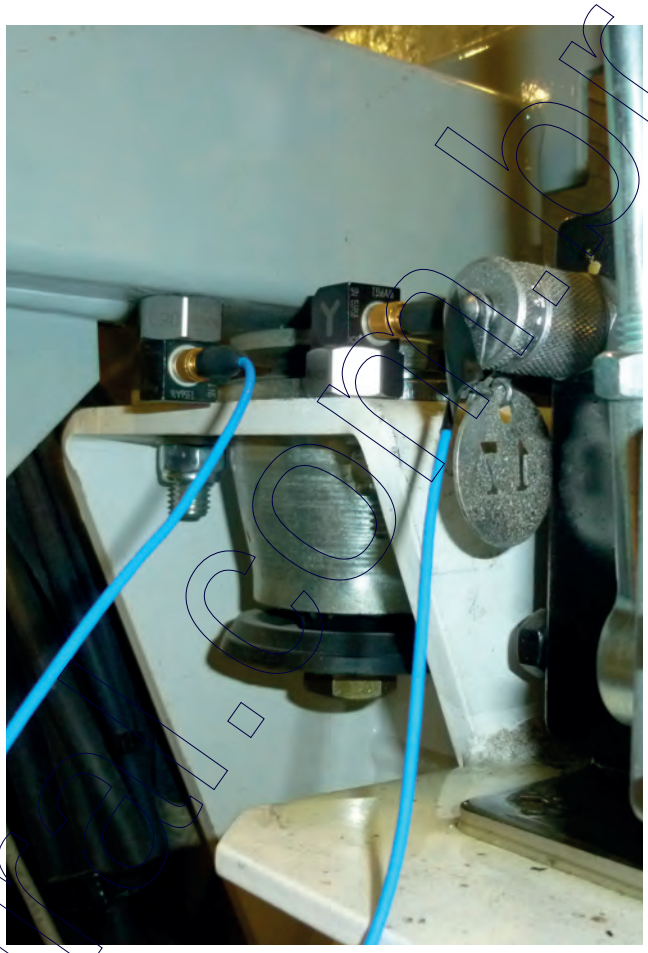
LOAD DEFLECTION GRAPH
AMC MECANOCAUCHO® CONE WITH CUTOUTS



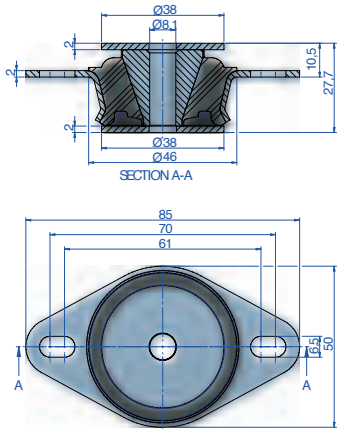


SOLID CONE

Type	Tightening torque Max (Nm)	Weight (gr)	Code	Max. Load (kg)	Shore
01	20,5	128	**137005**	40	45 Sh
			137006	70	60 Sh
			137015	105	70 Sh
02	71	132	**137010**	50	45 Sh
			137011	90	60 Sh
11	71	409	**137021**	100	45 Sh
			137022	180	60 Sh
			137023	270	70 Sh
13	71	450	**137921**	120	45 Sh
			137922	170	55 Sh
			137925	270	70 Sh
14 - 2 holes	71	643	**137930**	250	45 Sh
			137628	500	65 Sh
14 - 4 holes	71	662	**137935**	250	45 Sh
			137936	450	662
			137937	690	70 Sh
17	71	410	**137903**	160	45 Sh
			137904	250	60 Sh
			137905	350	70 Sh
21 - 2 holes	113	787	**137470**	180	45 Sh
			137472	300	60 Sh
			137474	500	70 Sh
21 - 4 holes	113	560	**137071**	180	45 Sh
			137074	300	60 Sh
			137079	500	70 Sh
27	170	1175	**137142**	245	40 Sh
			137143	350	50 Sh
			137144	500	60 Sh
31	170	1188	**137063**	310	50 Sh
			137061	500	60 Sh
			137062	750	70 Sh
33	170	1462	**137075**	300	45 Sh
			137077	600	60 Sh
			137078	900	70 Sh
36	170	1410	**137171**	400	45 Sh
			137172	700	60 Sh
			137173	1100	70 Sh
39	170	1438	**137981**	400	40 Sh
			137982	600	50 Sh
			137983	900	60 Sh
			137984	1100	70 Sh
40	245	1216	**137081**	420	45 Sh
			137082	690	60 Sh
			137083	1080	70 Sh
45	245	1751	**137595**	420	45 Sh
			137596	700	60 Sh
			137597	1100	70 Sh
60	350	1821	**137091**	900	45 Sh
			137092	1250	60 Sh
			137093	1560	70 Sh
62	170	1946	**137208**	450	45 Sh
			137226	1000	60 Sh
			137232	1400	70 Sh
65	350	2965	**137176**	500	50 Sh
			137177	1100	65 Sh
			137178	1560	75 Sh
70	600	3450	**137101**	1000	45 Sh
			137102	2100	60 Sh
			137103	2500	70 Sh
75	600	4230	**137786**	850	45 Sh
			137787	1600	60 Sh
121 NG	600	7840	**137830**	1750	55 Sh
			137833	2000	65 Sh
121 NP	600	6940	**137841**	730	45 Sh
			137829	1200	55 Sh
141	245	1039	**137891**	175	50 Sh
			137893	250	60 Sh

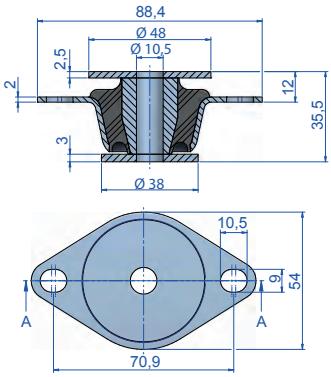


CONE TYPE 01



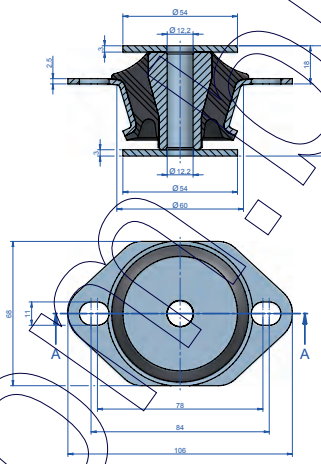
Included upper washer code 610053
Included lower washer code 610053

CONE TYPE 02



Included upper washer code 610064
Included lower washer code 610064

CONE TYPE 11



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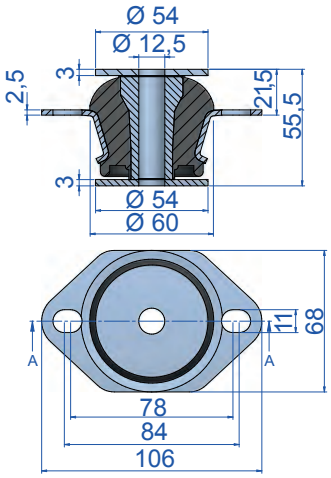
CONE TYPE 13



Included upper washer code 611080
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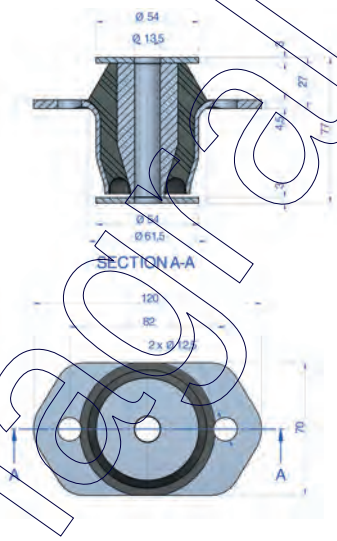
CONE TYPE 14-2 HOLE



Included upper washer code 611080
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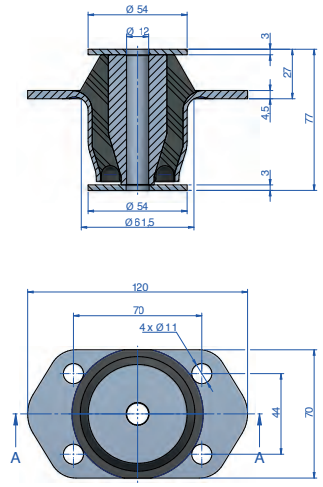
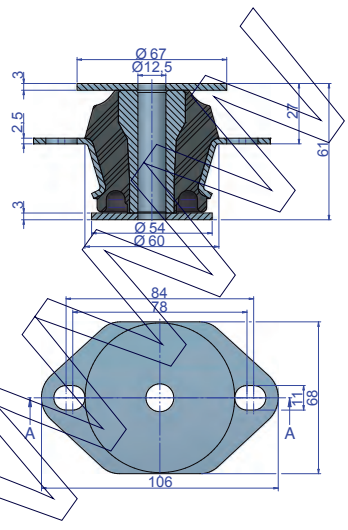
CONE TYPE 14-4 HOLE



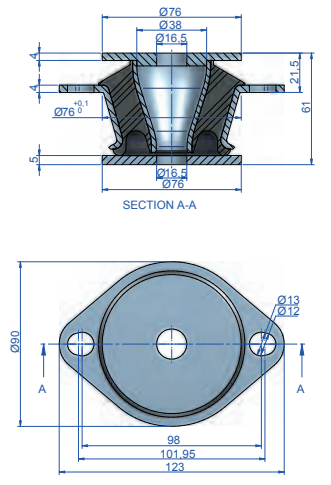
Included upper washer code 611080
Included lower washer code 611080

CONE TYPE 17



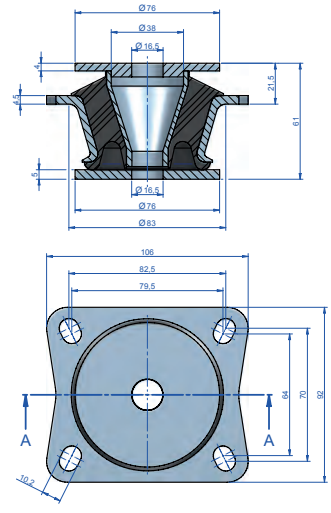
Included upper washer code 606285
Included lower washer code 608074

CONE TYPE 21-2 HOLE



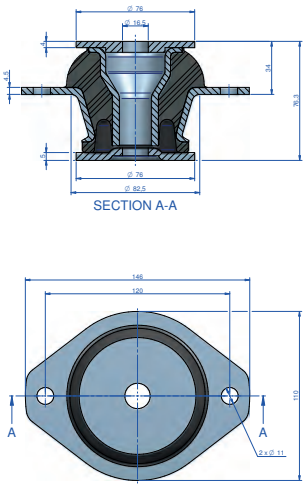
Included upper washer code 606285
Included lower washer code 608074

CONE TYPE 21- 4 HOLE



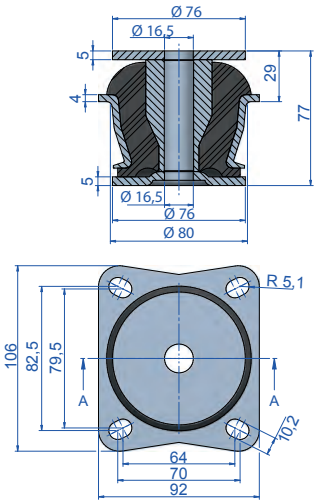
Included upper washer code 606285
Included lower washer code 608074

CONE TYPE 27



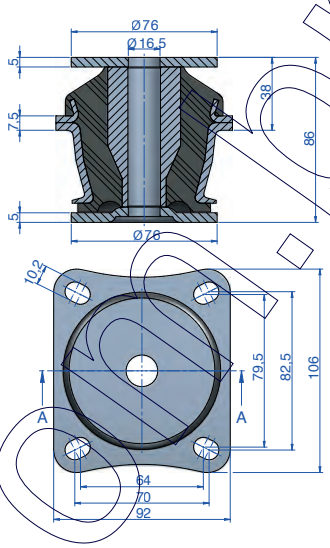
Included upper washer code 606285
Included lower washer code 608125

CONE TYPE 31



Included upper washer code 608074
Included lower washer code 608125

CONE TYPE 33



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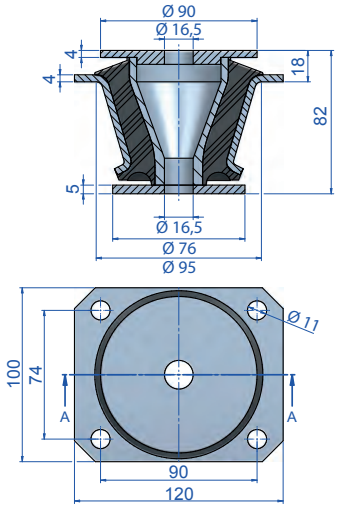

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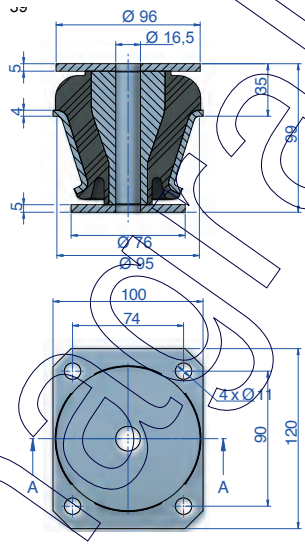

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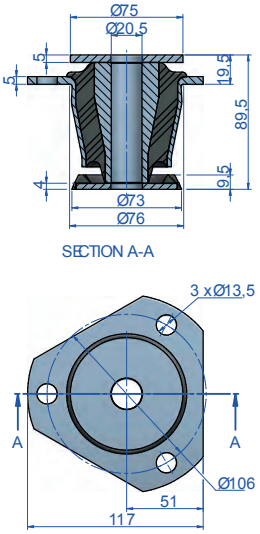

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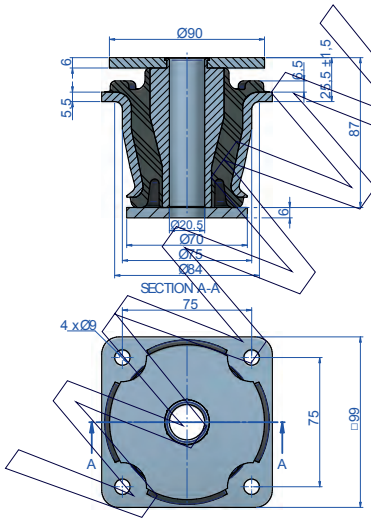

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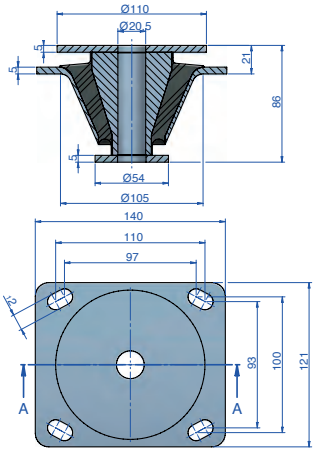
CONE TYPE 60



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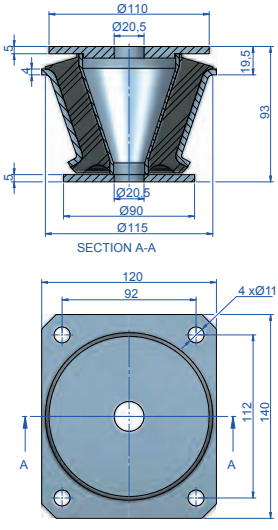
CONE TYPE 62



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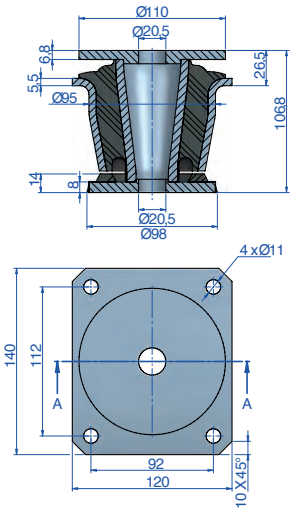
CONE TYPE 65



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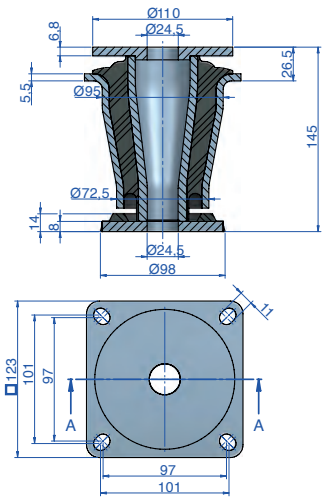

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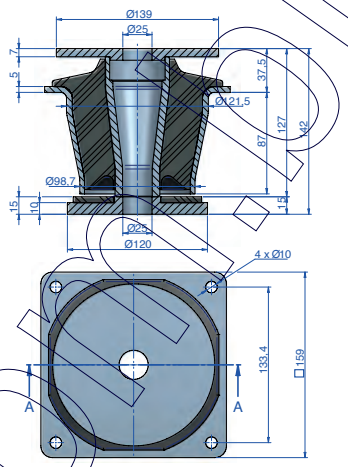
CONE TYPE 75



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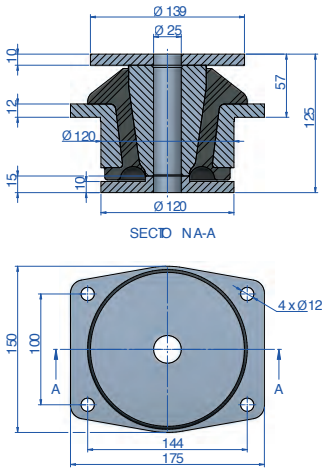
NG CONE TYPE 121



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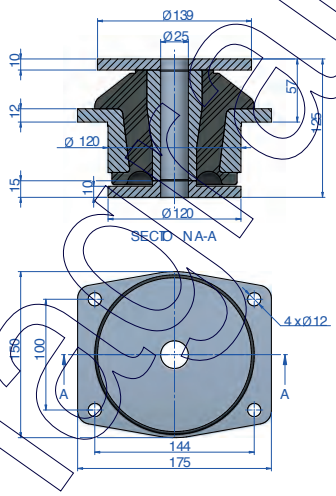
NP CONE TYPE 121



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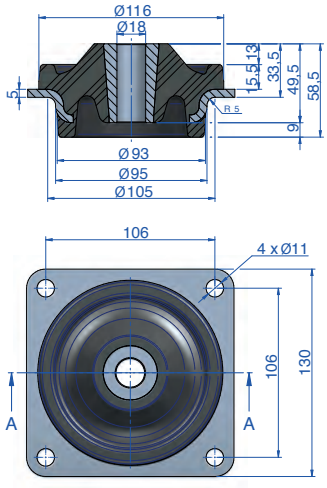
CONE TYPE 141



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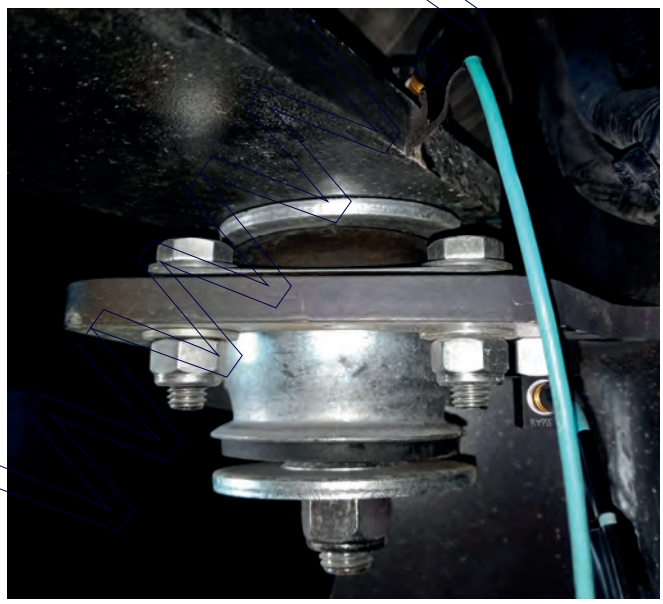
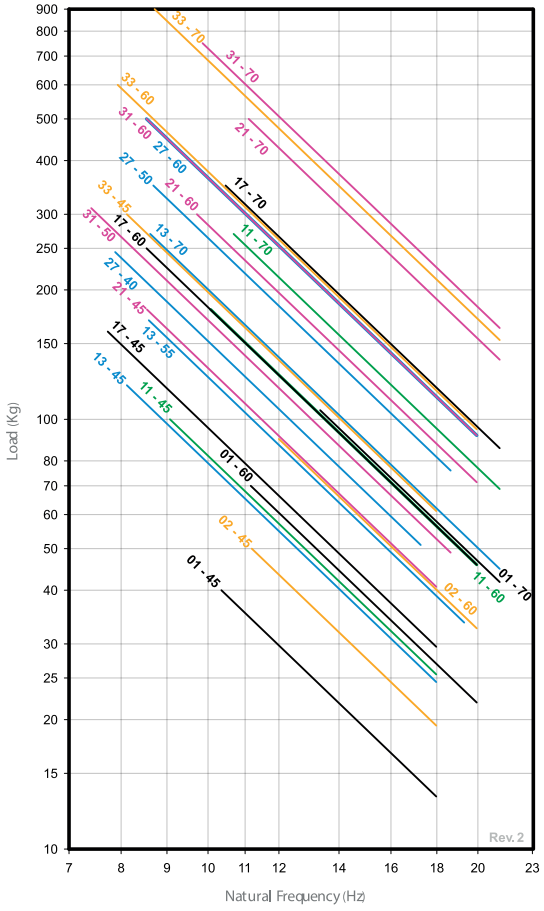
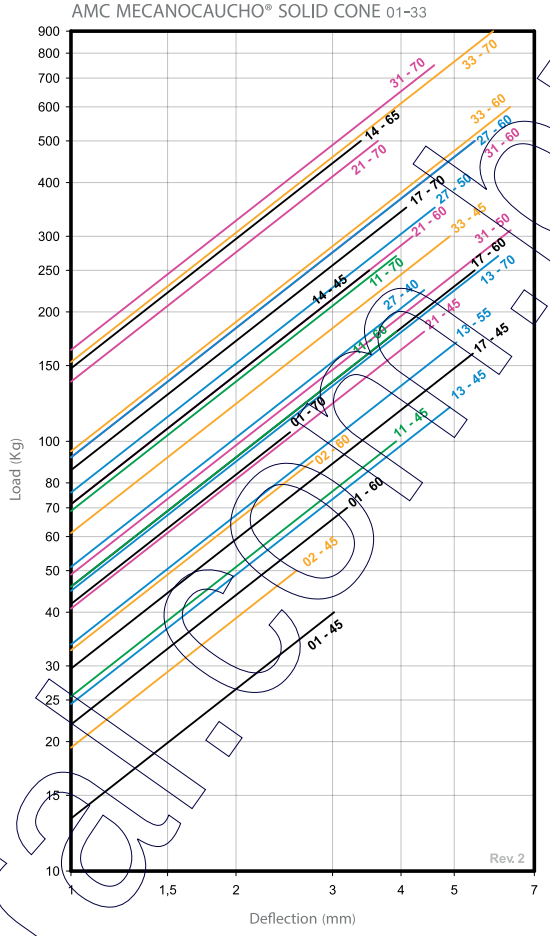
Included lower washer code 608125



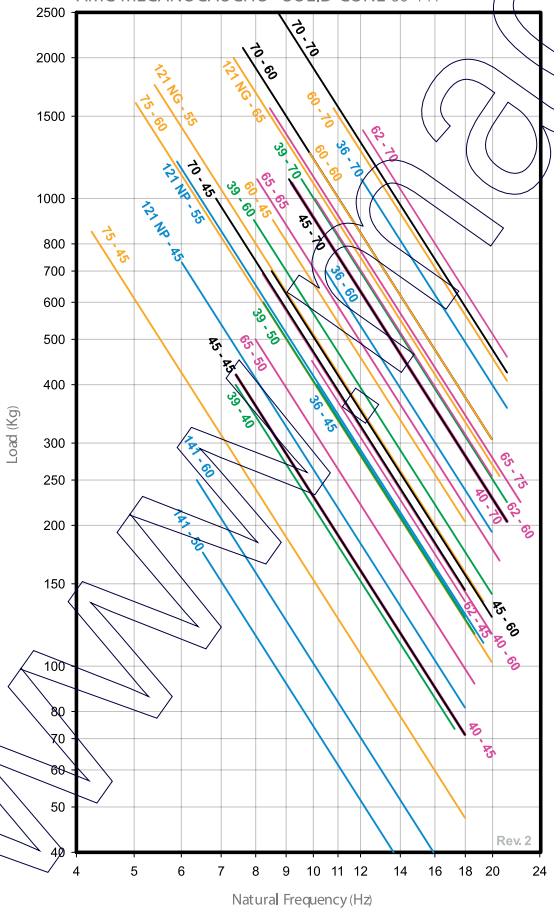
NATURAL FREQUENCY
AMC MECANOCAUCHO® SOLID CONE 01-33



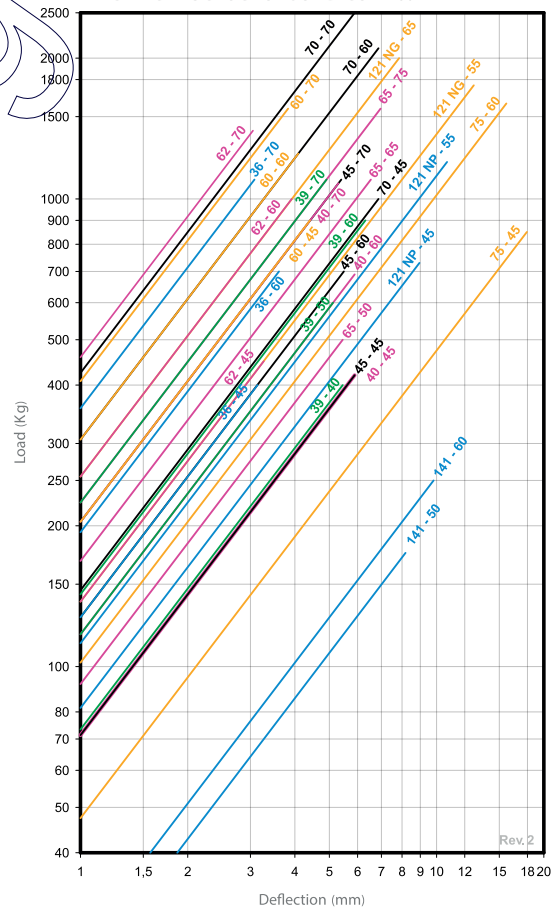
LOAD DEFLECTION GRAPH
AMC MECANOCAUCHO® SOLID CONE 01-33



NATURAL FREQUENCY
AMC MECANOCAUCHO® SOLID CONE 36-141



LOAD DEFLECTION GRAPH
AMC MECANOCAUCHO® SOLID CONE 36-141



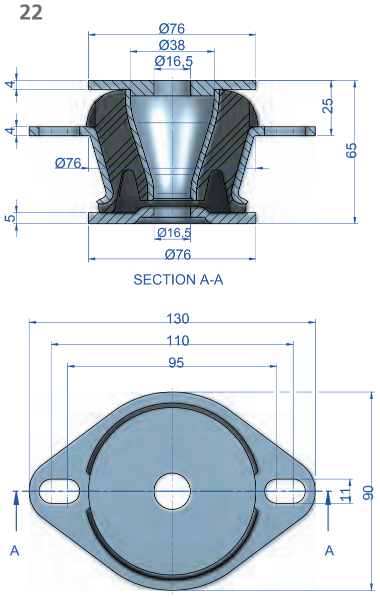
AMC MECANOCAUCHO

DSM (Dual Stiffness Mounts)

DESCRIPTION

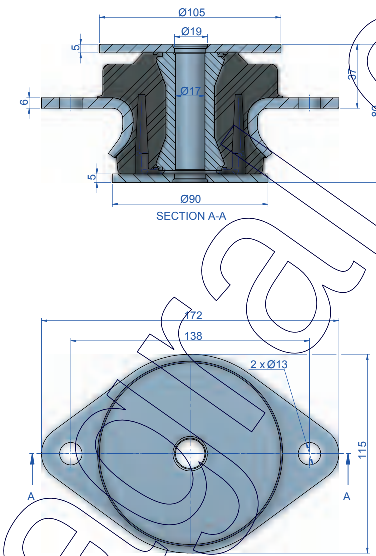
The DSM Mounts provides an important pre-compression of the rubber section during assembly, this offers several advantages during operation. This design ensures effective vibration isolation during static conditions and excellent stability during dynamic shock conditions.

22

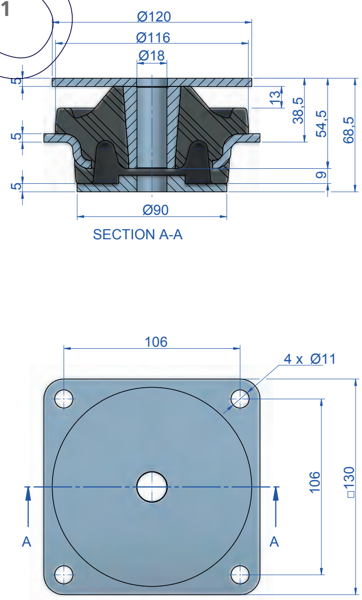


MAX. TIGHTENING TORQUE: 113 Nm

83



141



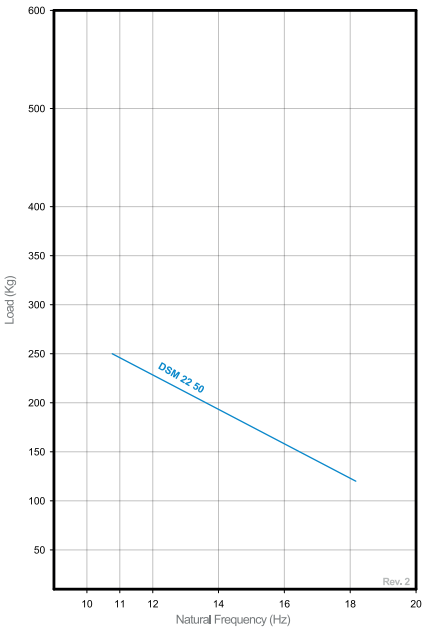
Type	Tightening torque Max (Nm)	Weight (gr)	Code	Max. Load (kg)	Shore
DSM 22	113	850	**137460**	250	50 Sh
DSM 83	71	2000	**137461**	150	45 Sh
			137462	250	55 Sh
			137463	350	65 Sh
DSM 141	245	1039	**137464**	175	50 Sh
			137465	250	60 Sh

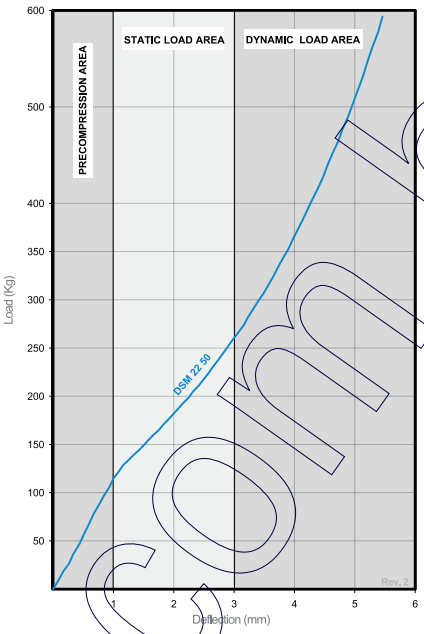
* AMC S.A. reserves the right to modify the design and manufacture of the materials presented in this catalogue without prior notice.

NATURAL FREQUENCY GRAPHS

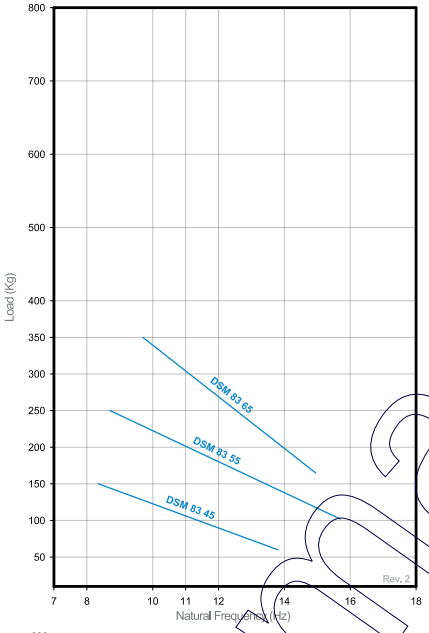
LOAD DEFLECTION GRAPHS

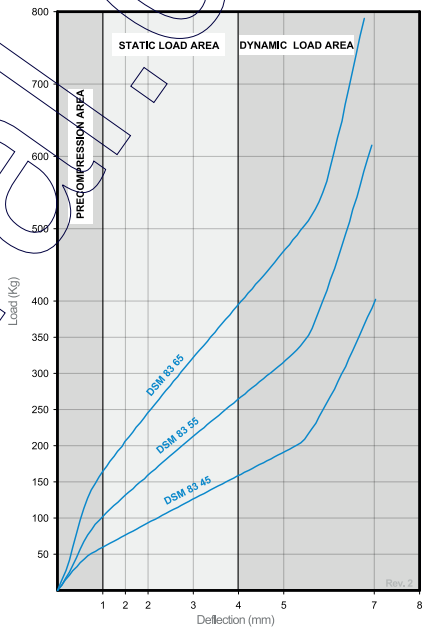
AMC MECANOCAUCHO® DSM 22



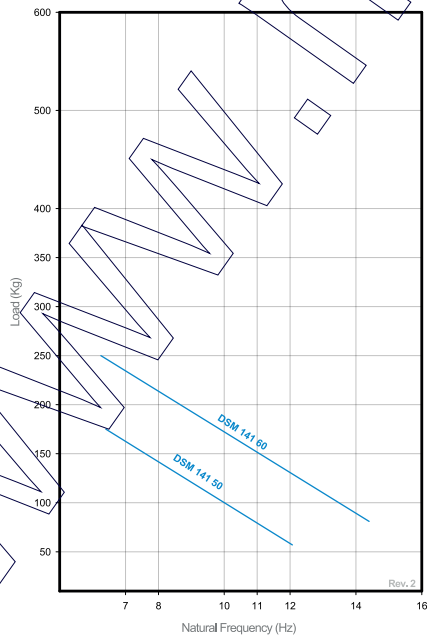


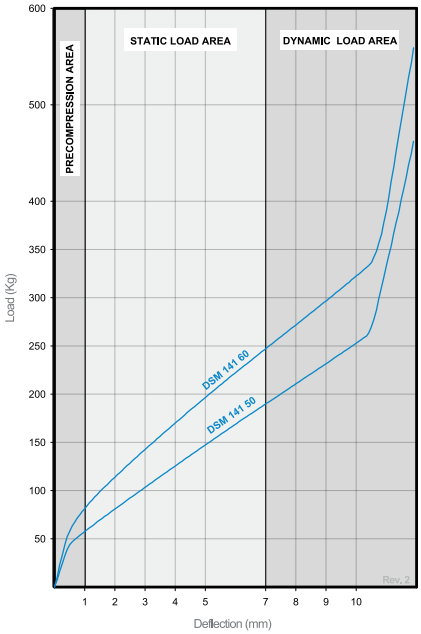
AMC MECANOCAUCHO® DSM 83





AMC MECANOCAUCHO® DSM 141





CONES WITH FIXATION FLANGE

DESCRIPTION

The cones with fixation flange from AMC MECANOCAUCHO® work the elastomer at shear compression. They are comprised of a high strength external metal armour and a conical internal that is placed concentrically.

TECHNICAL CHARACTERISTICS

The cones with fixation flange from AMC MECANOCAUCHO® are conceived to offer predominant axial elasticity under heavy loads. The used elastomer is a low dynamic rigidification elastomer, which makes it possible to obtain low natural frequencies thus maintaining excellent stability of the suspended unit.

The mount's radial stiffness is superior to the axial. This is particularly interesting for applications where great horizontal stability needs to be maintained.

The AMC MECANOCAUCHO® Cone 100 mount is supplied with a height adjuster. This makes it possible to easily align transmission shafts without having to use additional accessories to do so.

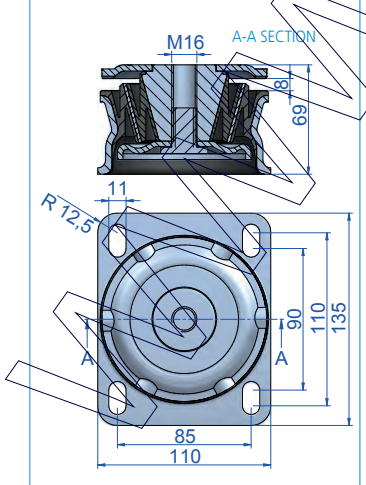
All the models also incorporate an interlocking metal part that allow them to act as a FAILSAFE system. Thanks to this, and to the ruggedness of the metal parts, this mount is suitable for applications where the suspended unit is submitted to great shocks.

APPLICATIONS

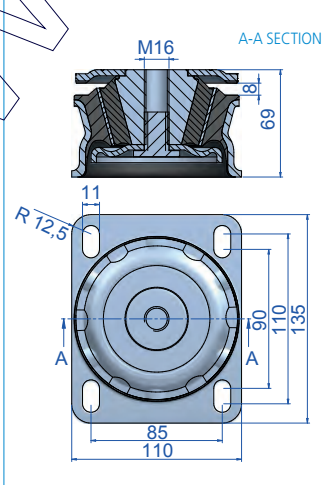
The AMC MECANOCAUCHO® cones with fixation flange have been designed specially for use in engines and auxiliary machinery for static applications and for applications in all kinds of vehicles.

Type	Weight (gr.)	Code	Load (kg)	Shore
Cone 50 M16x2	1600	**137085**	120	40 Sh
		137086	170	50 Sh
		137087	250	60 Sh
		137088	300	70 Sh
Cone 50 M16x1,5	1600	**137231**	120	40 Sh
		137233	170	50 Sh
		137235	250	60 Sh
		137237	300	70 Sh
Cone 51 M16x2	1750	**137095**	150	40 Sh
		137096	220	50 Sh
		137097	320	60 Sh
		137098	420	70 Sh
Cone 51 M16x1,5	1750	**137241**	150	40 Sh
		137243	220	50 Sh
		137245	320	60 Sh
		137247	420	70 Sh
Cone 100 A	9626	**137213**	3750	-
Cone 100 B	9626	**137214**	2300	-
Cone 100 C	9626	**137215**	1600	-
Cone 200 A	29000	**137810**	8500	-
Cone 200 B	29000	**137801**	6500	-
Cone 200 C	29000	**137805**	3900	-

CONE TYPE 50



CONE TYPE 51



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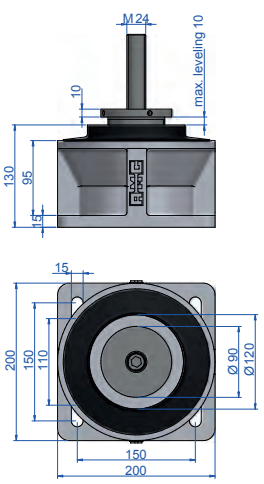

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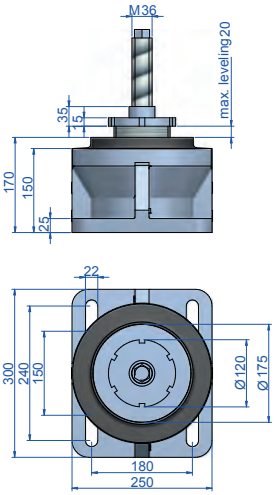
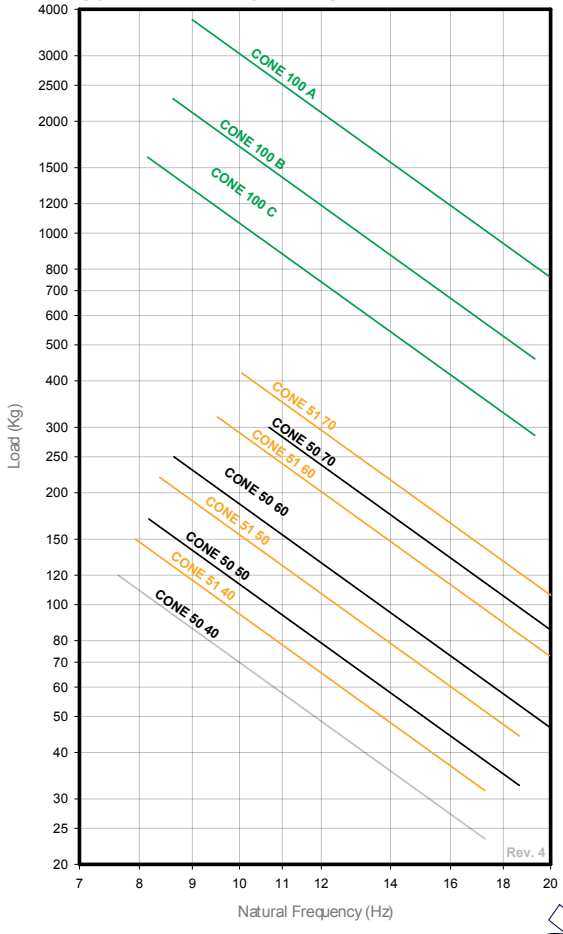
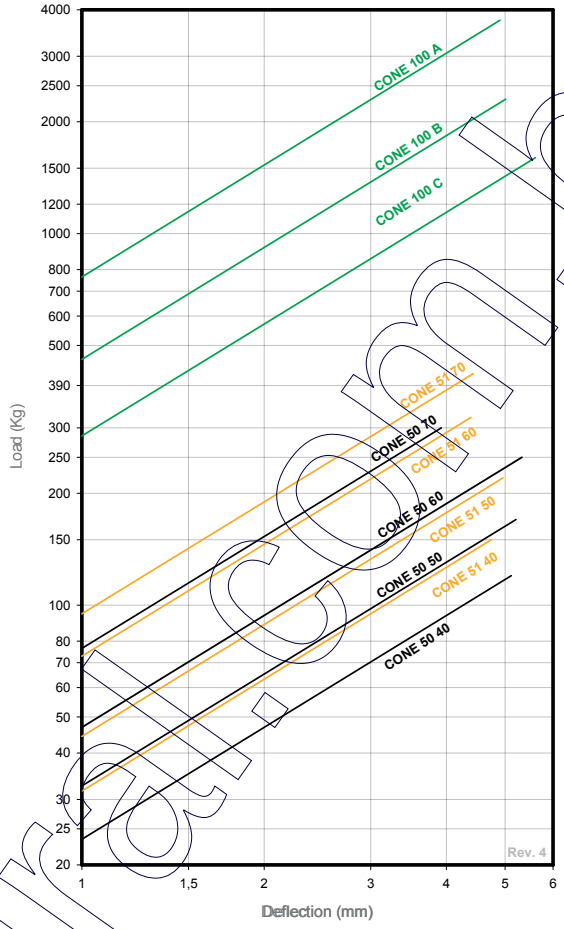


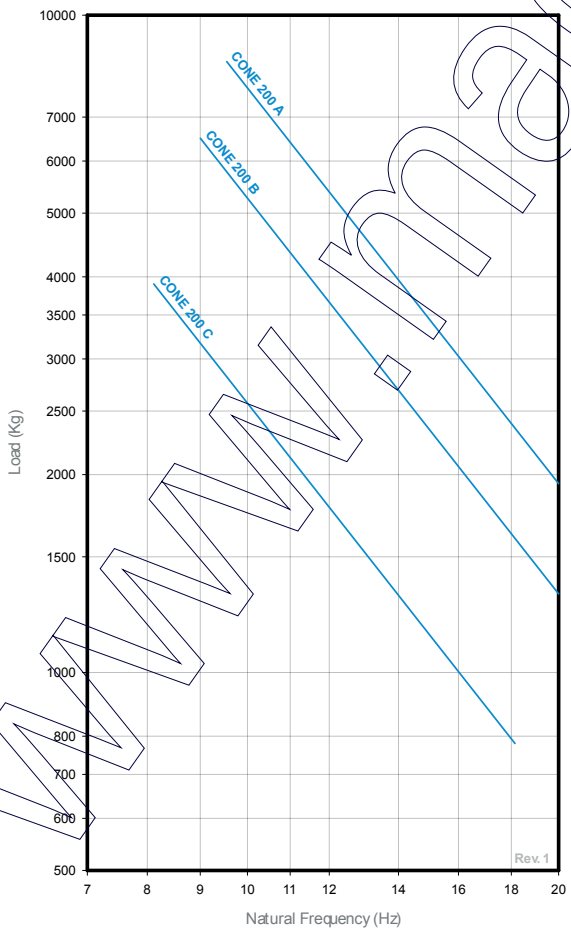
NATURAL FREQUENCY - AMC MECANOCAUCHO®
CONE WITH FIXATION FLANGE



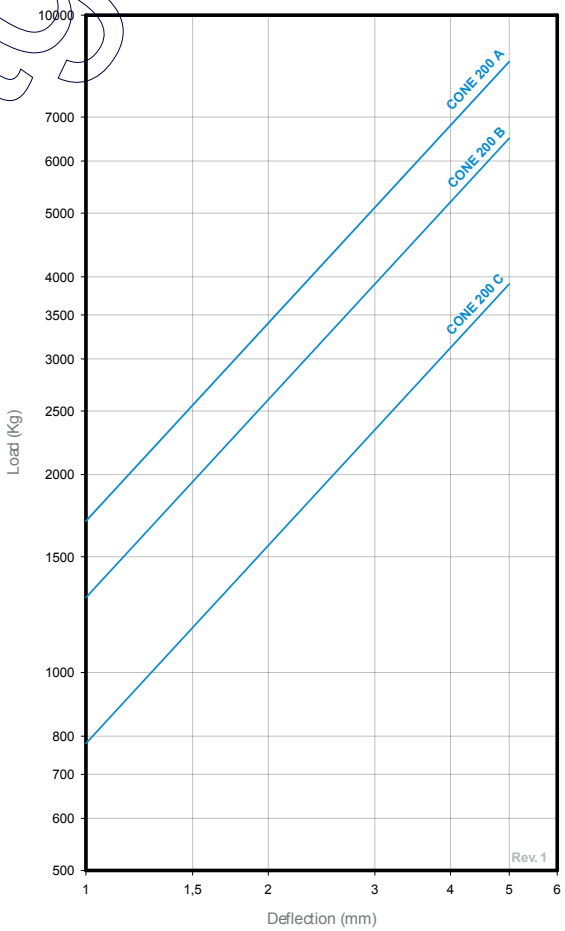
LOAD DEFLECTION GRAPH- AMC MECANOCAUCHO®
CONES WITH FIXATION FLANGE



NATURAL FREQUENCY - AMC MECANOCAUCHO®
CONE 200WITH FIXATION FLANGE



LOAD DEFLECTION GRAPH- AMC MECANOCAUCHO®
CONE 200WITH FIXATION FLANGE



CABIN MOUNT

DESCRIPTION

The AMC MECANOCAUCHO® cabin mount is composed of two main metal parts. Both metal parts are bonded to a high resilient rubber for optimum vibration isolation.

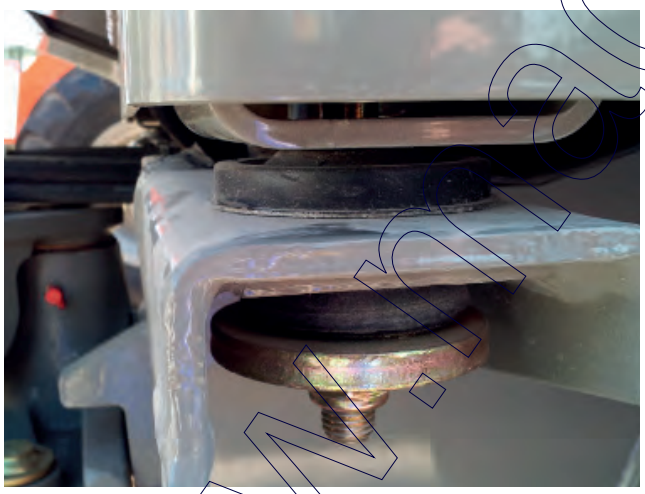
TECHNICAL CHARACTERISTICS

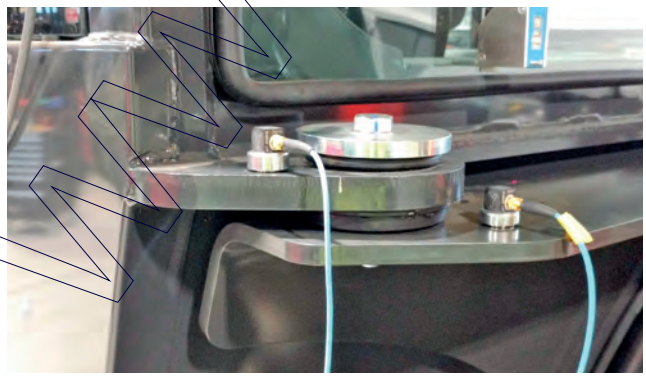
- This mount incorporates two bump shaped profiles in order to absorb dynamic loads or shocks. This feature is specially interesting for restricting the motion of the cabin under transient shocks.
- The metal parts are corrosion protected to cope with arduous environments on land or marine applications. RoHs compliant.
- The AMC MECANOCAUCHO® cabin mount can be manufactured in other different rubber compounds in order to be suitable for different weight of cabins.
- Our technical department can give the correct recommendation in order to overpass ROPS tests on construction equipment machinery.

APPLICATIONS

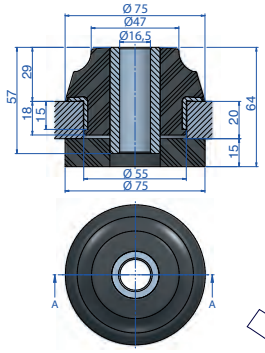
For the effective isolation of vibration and noise on cabins for the following purposes:

- Agricultural Tractors.
- Construction equipment machinery
- Off road vehicles.

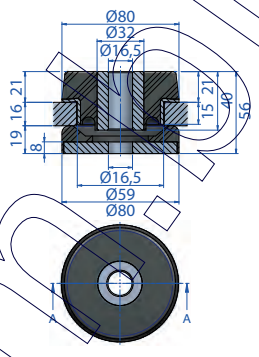




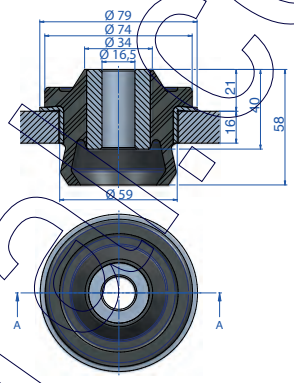
CABIN MOUNT 75 + Anti-rebound Washer



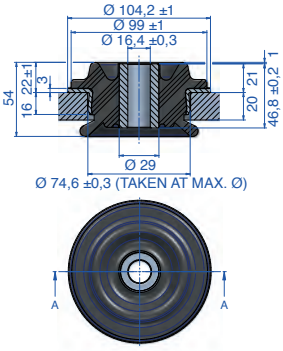
CABIN MOUNT 80 + Anti-rebound Washer



CABIN MOUNT 85



CABIN MOUNT 105



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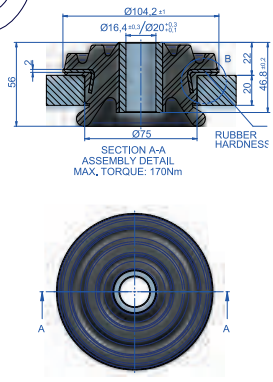
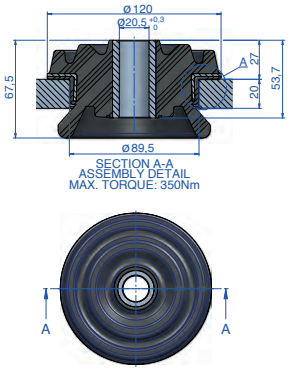
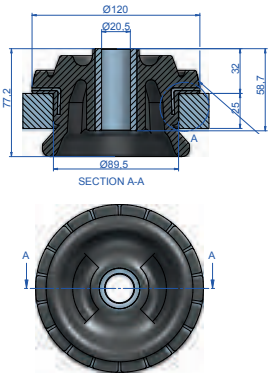
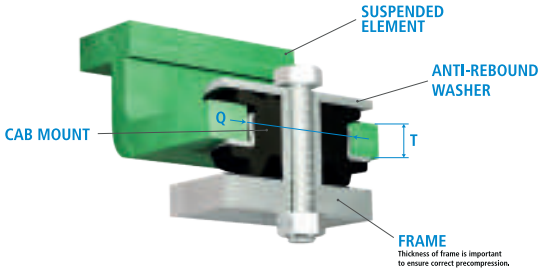


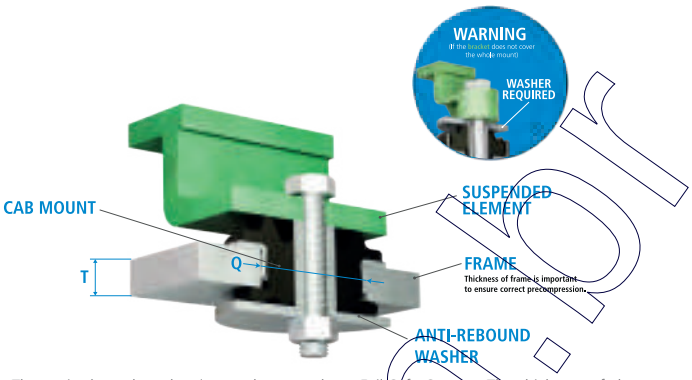
CABIN MOUNT 120



CABIN MOUNT 130





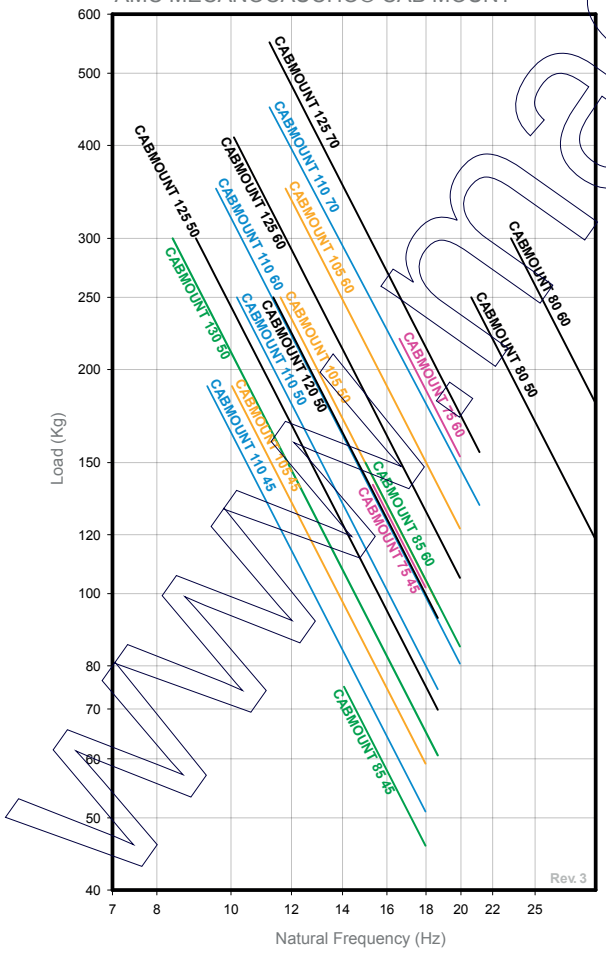


The anti-rebound washer is mandatory to be a Fail-Safe System. The thickness of the washer depends on the application. Please contact us, if you have any question.

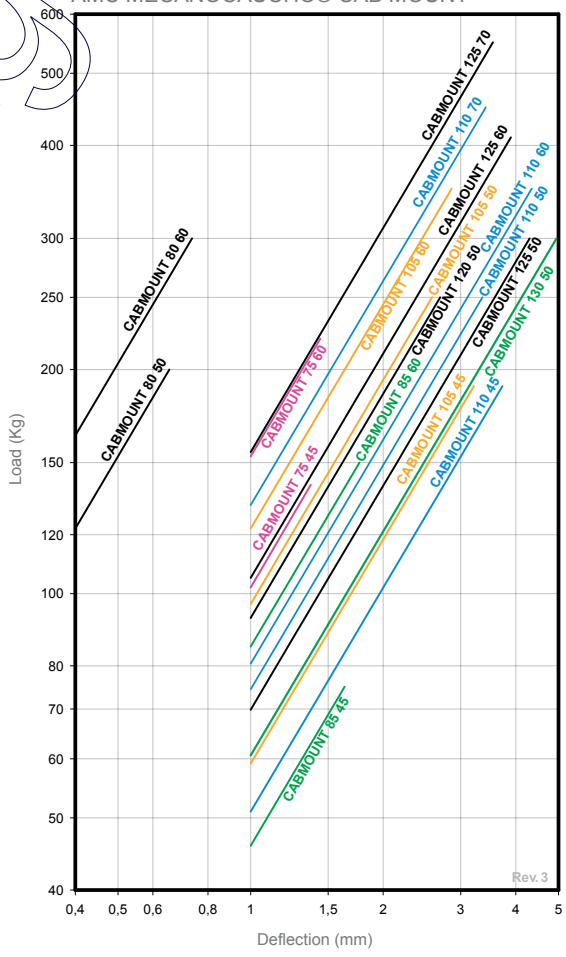
Type	Q (mm)	T (mm)	Weight (gr)	Max. Load (kg)	Ø (mm)	Shore	Code
Cabin Mount 75	55,5	20	328	140	16	45 Sh	**137371**
				220	16	60 Sh	**137372**
				140	20	45 Sh	**137373**
				220	20	60 Sh	**137374**
Cabin Mount 80	60	16	616	200	16	50 Sh	**137353**
				300	16	60 Sh	**137354**
				200	20	50 Sh	**137351**
				300	20	60 Sh	**137352**
Cabin Mount 85	60	16	300	75	16	45 Sh	**137322**
				150	16	60 Sh	**137323**
				75	20	45 Sh	**137313**
				150	20	60 Sh	**137311**
Cabin Mount 105	75	20	600	190	16	45 Sh	**137301**
				250	16	50 Sh	**137318**
				350	16	60 Sh	**137315**
				190	20	45 Sh	**137302**
				250	20	50 Sh	**137320**
				350	20	60 Sh	**137319**
Cabin Mount 110	75	20	550	190	16	45sh	**137304**
				250	16	50sh	**137305**
				350	16	60sh	**137306**
				450	16	70sh	**137307**
Cabin Mount 120	89	20	660	250	20	50Sh	**137392**
Cabin Mount 130	89	25	670	300	20	50sh	**137441**

Type	Washer	Ø (mm)	Weight (gr)	Øext (mm)	Øint (mm)	Thickness (mm)	Code
Cabin Mount 75	Anti rebound washer	16	170	76	16,5	5	**608074**
		20	155	76	20,5	5	**610027**
	Compression Limiting Washer	16	170	76	16,5	5	**608074**
		20	155	76	20,5	5	**610027**
Cabin Mount 80	Compression Limiting Washer	16	237	90	18	5	**606482**
		20	236	90	20,5	5	**606486**
Cabin Mount 85	Anti rebound washer	16	237	90	18	5	**606482**
		20	236	90	20,5	5	**606486**
	Compression Limiting Washer	16	237	90	18	5	**606482**
		20	236	90	20,5	5	**606486**
Cabin Mount 105	Anti rebound washer	16	356	110	16,5	5	**611167**
		20	361	110	20,5	5	**606487**
	Compression Limiting Washer	16	356	110	16,5	5	**611167**
		20	361	110	20,5	5	**606487**
Cabin Mount 110	Anti rebound washer	16	356	110	16,5	5	**611167**
		20	361	110	20,5	5	**606487**
	Compression Limiting Washer	16	356	110	16,5	5	**611167**
		20	361	110	20,5	5	**606487**
Cabin Mount 120	Anti rebound washer	20	358	120	20,5	5	**610255**
	Compression Limiting Washer	20	358	110	20,5	5	**610249**
Cabin Mount 130	Anti rebound washer	20	358	120	20,5	5	**610255**
	Compression Limiting Washer	20	358	120	20,5	5	**610255**

NATURAL FREQUENCY GRAPHS
AMC MECANOCAUCHO® CAB MOUNT



LOAD DEFLECTION GRAPHS
AMC MECANOCAUCHO® CAB MOUNT



CB

DESCRIPTION

The AMC MECANOCAUCHO® type CB mounts are installed in pairs. Installation is simplified as both mounts fixed with one through bolt and a washers at each end.

The mount is provided with a built in wear plate that prevents the elastomeric element from coming in contact with sharp edges of support frames or structures that may cause friction in traditionally used semi bonded mounts. Therefore with these mounts there is no need to machine radii or chamfer holes.

The specific design of the mounts permits high dynamic loads whilst limiting the movement due to the multiple axial snubbing design.

TECHNICAL CHARACTERISTICS

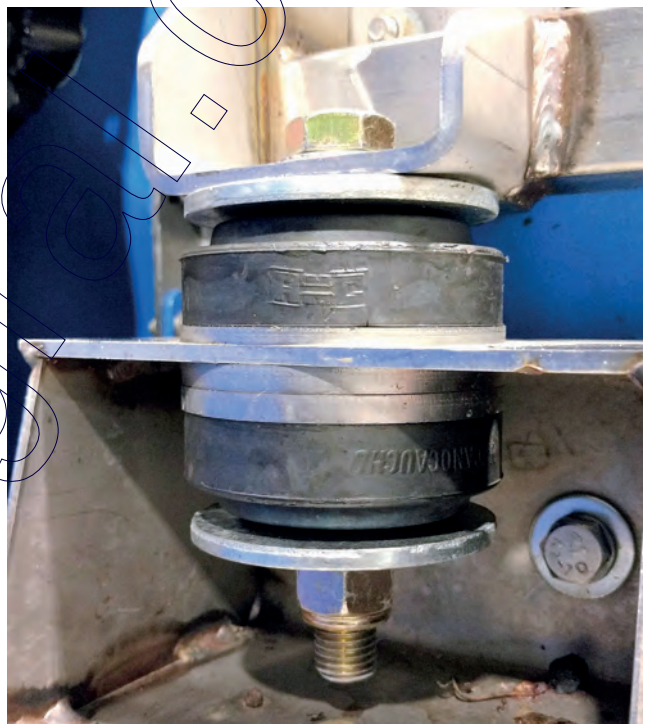
- The AMC MECANOCAUCHO® Type CB is radially 30% softer than axially. This feature is specially interesting for those machines or equipments where radial axis vibration isolation is important.
- The mount is provided with a built in snubbering system that allows the following elastical courses:

  Vertical: +/- 6 mm

  Horizontal: +/- 3mm
- The mount can be supplied in two different sizes and in different hardness compounds to accommodate applications from 30 to 550 Kg per mount.
- Metal parts are embedded in rubber in order to prevent corrosion.

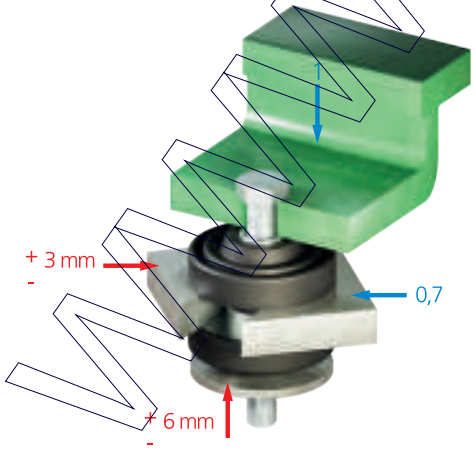
APPLICATIONS

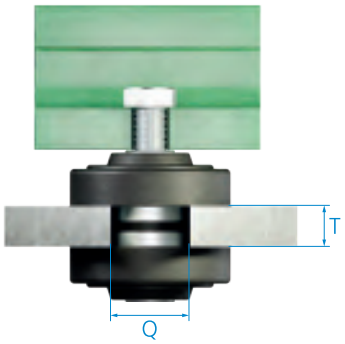
- Agricultural or construction equipment cabins, engines, radiators, transmission, battery boxes.
- Marine equipment
- Mobile Generators or compressors.
- Chassis frames for Military, Bus, Truck, Motorhome and Emergency vehicles.

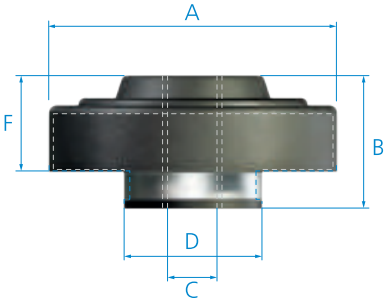


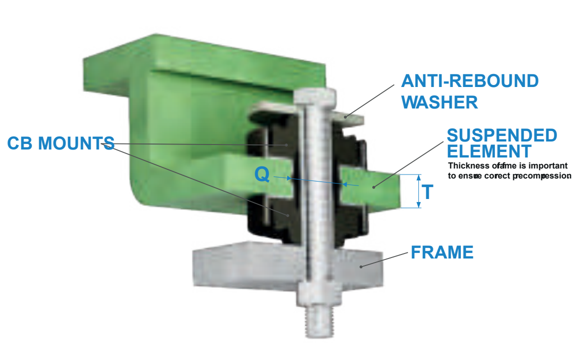
Blue colour: Stiffness ratios per axis.

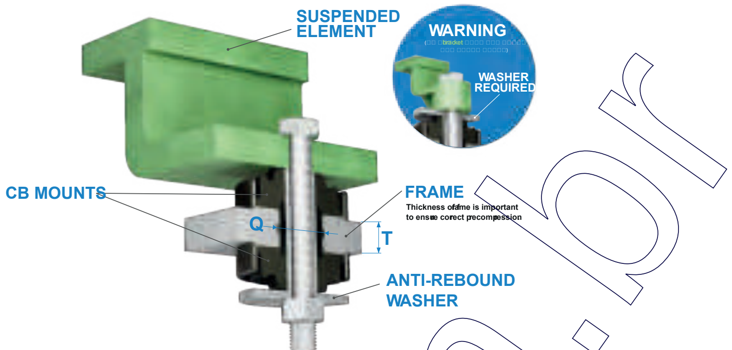
Red colour: Maximum elastical course per axis.









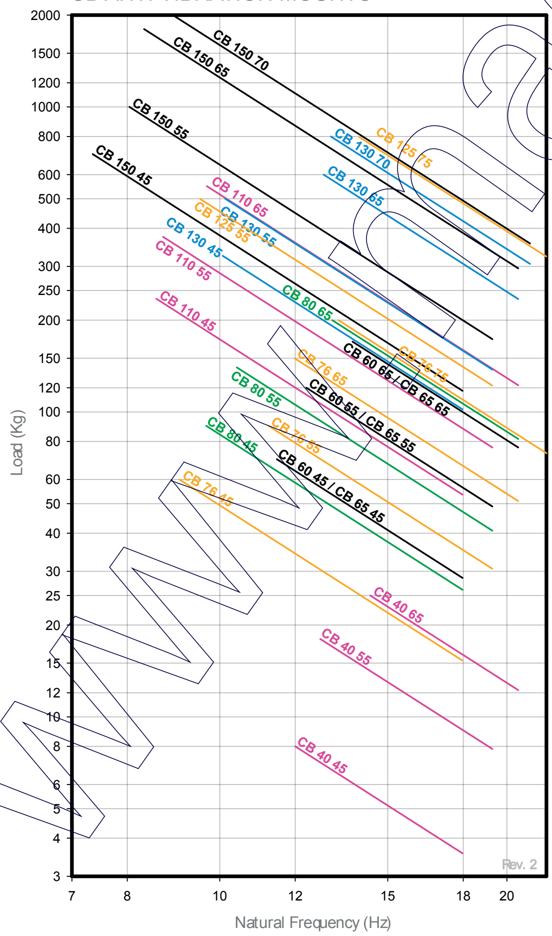


The anti-rebound washer is mandatory to be a Fail-Safe System. The thickness of the washer depends on the application. Please contact us, if you have any question.

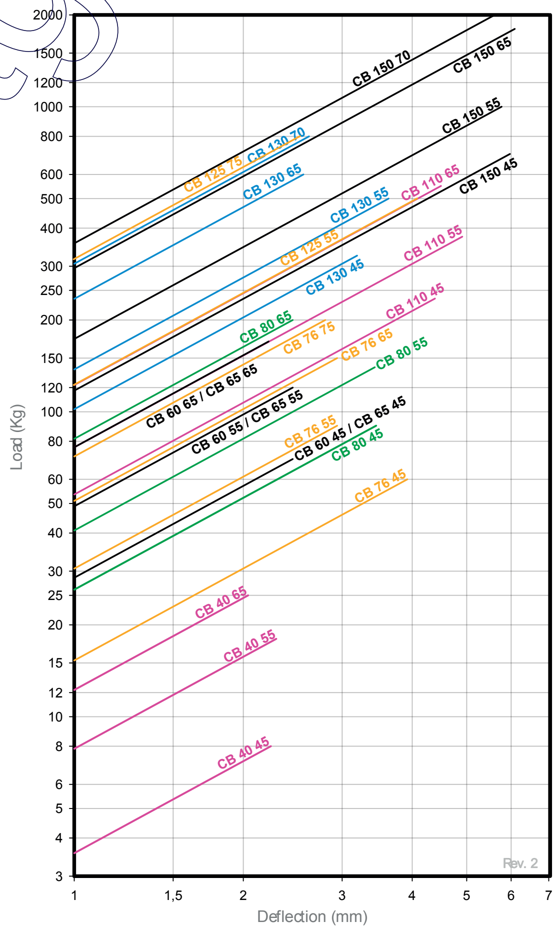
Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Q (mm)	T Max. (mm)	T Min. (mm)	Weight (gr)	Bolt size (metric)	Bolt size (imperial)	Shore	Max. Load (kg)	Code
CB 40	40	19	8,5	26	17	26	5	5	30	M8	5/16"	45Sh 55Sh 65Sh	8 18 25	**156070** **156071** **156072**
CB 60	66	37	16,5	39,5	27,3	40	20	20	140	M16	5/8"	45 Sh 55 Sh 65 Sh	70 120 170	**156011** **156013** **156014**
CB 65	65,5	38	18,9	40,5	29	41	20	20	175	M18	11/16"	45 Sh 55 Sh 65 Sh	70 120 170	**156031** **156032** **156033**
CB 76	78,5	40	16,5	48	33	49	15	15	223	M16	5/8"	45 Sh 55 Sh 65 Sh 75 Sh	60 90 150 200	**156053** **156054** **156055** **156056**
CB 80	78,5	42,5	16,5	37,9	32,5	38	20	18	242	M16	5/8"	45 Sh 55 Sh 65 Sh	90 140 200	**156001** **156002** **156003**
CB 110	109	52	22,5	56,8	40	57	25	25	630	M22 | M20	7/8" | 3/4"	45 Sh 55 Sh 65 Sh	235 375 550	**156021** **156022** **156023**
CB 125	127	57,5	24,5	71	43	71	40	40	1000	M24	15/16"	55 Sh 75 Sh	500 800	**156089** **156090**
CB 130	127	57,5	30,5	70,5	43	71	40	40	1200	M30	1 1/8"	45 Sh 55 Sh 65 Sh 70 Sh	325 500 600 800	**156026** **156027** **156028** **156029**
CB 150	148	69,5	33	89,5	51,5	90	40	40	1783	M30	1 1/8"	45 Sh 55 Sh 65 Sh 70 Sh	700 1000 1800 2000	**156065** **156066** **156067** **156068**

Type	Weight (gr.)	Øext (mm)	Øint (mm)	Thickness (mm)	Code
CB 40 WASHER	16	38	8,5	2	**610053**
CB 60 WASHER	125	66	16,5	5	**606130**
CB 65 WASHER	141	67	18,5	5	**706004**
CB 76 WASHER	175	76	16,5	5	**608074**
CB 80 WASHER	175	76	16,5	5	**608074**
CB 110 WASHER	286	110	23	5	**610192**
CB 125 WASHER	1233	145	24.5	10	**608529**
CB 130 WASHER	1233	145	30.5	10	**608278**
CB 150 WASHER	1233	145	30.5	10	**608278**

NATURAL FREQUENCY AMC MECANOCAUCHO®
CB ANTI VIBRATION MOUNTS



LOAD DEFLECTION GRAPH AMC MECANOCAUCHO®
CB ANTI VIBRATION MOUNTS



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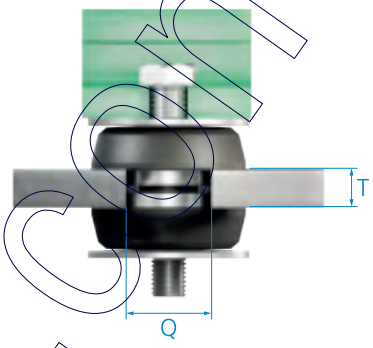
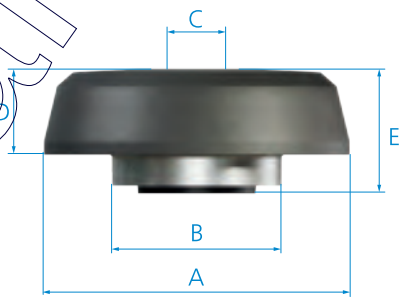
TF





DESCRIPTION

The AMC MECANOCAUCHO® TF type anti vibration mounts are made of two moulded parts. One of circular fully moulded rubber, and one circular part which is fully bonded to a centre tube which acts as a guide for the machine anchoring bolt. They are installed pre-compressed on the actual machine frame, whose thickness "E" determines the degree of pre-compression of the assembly.

TECHNICAL CHARACTERISTICS

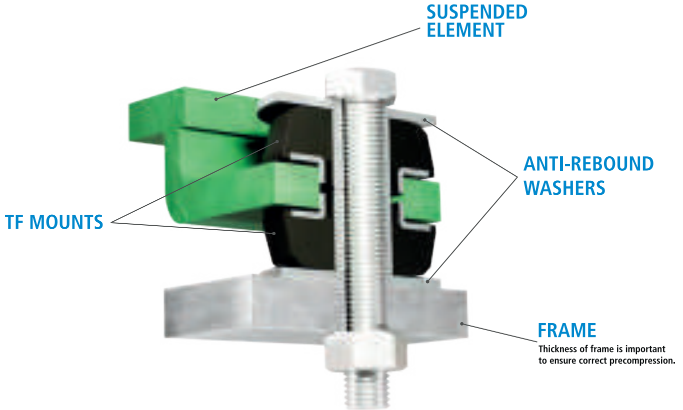
This antivibration mount is ideal for applications with major dynamic loadings such as; Off-Road Construction vehicles for engines, gearboxes, Operator Cabins where movement control is necessary. It also offers optimal stability, as well as good attenuation of impacts and high frequency vibrations.

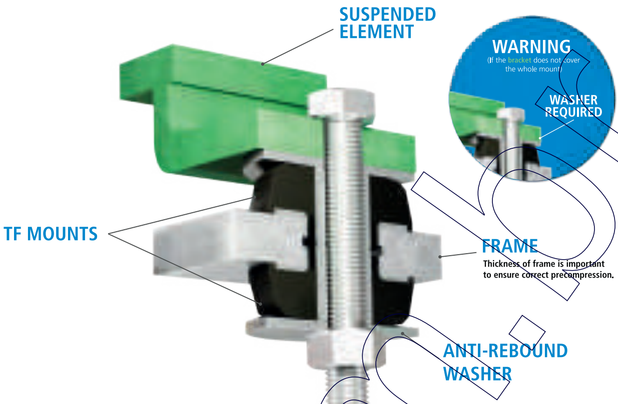
ASSEMBLY INSTRUCTIONS

The TF mounts should be assembled according to the following installation instructions. There are two possible configurations, see assembly 1 and assembly 2, for which the recommendations given in the following chart must be observed. They can be installed in plates of different thicknesses according to the Tmx and Tmin values given in the Table provided. The Load vs Deformation curves will vary according to the plate thickness in which the mount will be installed.

APPLICATIONS

- Vehicle cabins
- Construction equiment machinery and agricultural vehicles, etc.



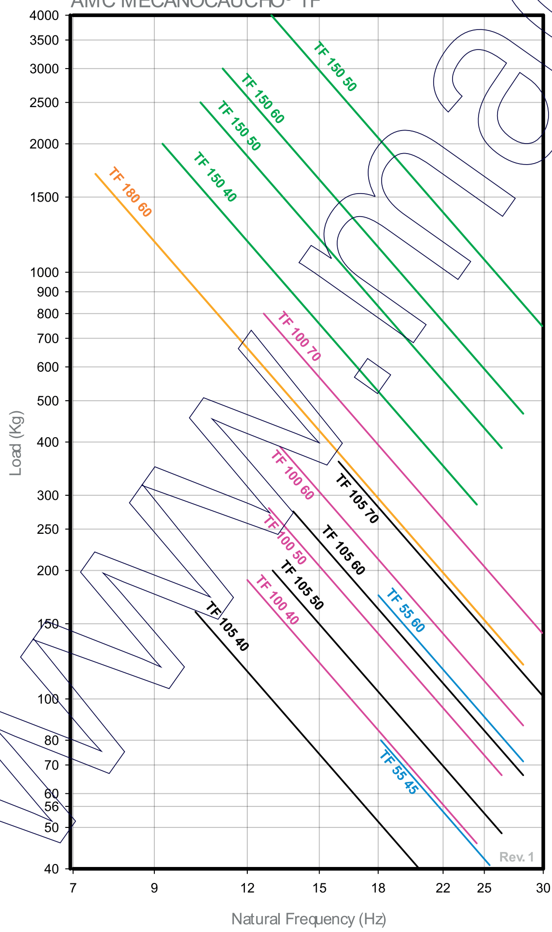


Washers should be used, if the rubber surface is not covered with the contact surface. Washers upon request.

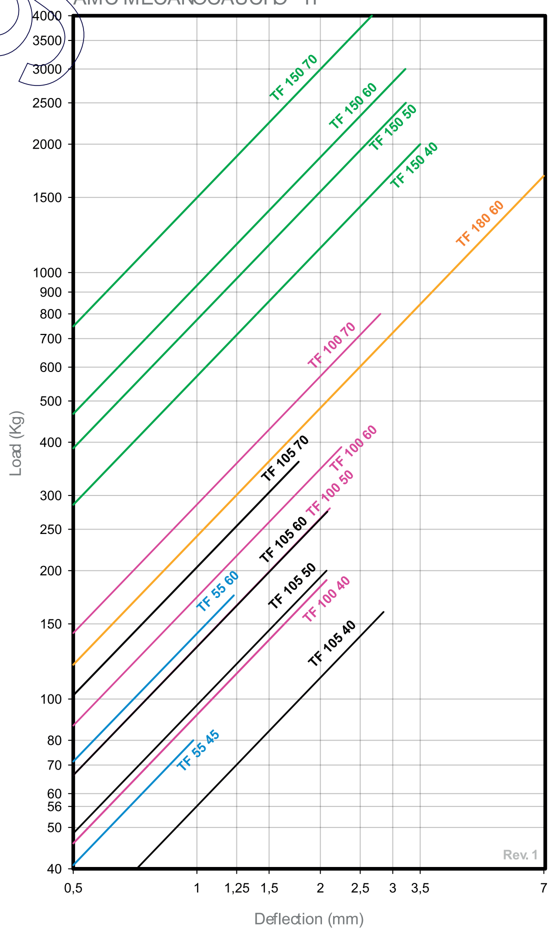
Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Q (mm)	T (mm)	Code	Shore	Max. Load (kg)
TF 55	56,5	39,4	16,2	16	20	40	10	**138061**	45 Sh	80
								138063	60 Sh	175
TF 100	100	55,5	24,2	29,5	40,2	56	25	**137365**	40 Sh	190
								137366	50 Sh	280
								137363	60 Sh	390
								137364	70 Sh	800
TF 105	105	74,6	16,2	30	38	75	20	**137381**	40 Sh	160
								137382	50 Sh	200
								137383	60 Sh	275
								137384	70 Sh	360
TF 150	146	79,5	24,5	54	71	79,5	35	**137445**	40 Sh	2000
								137446	50 Sh	2500
								137447	60 Sh	3000
								137448	70 Sh	4000
TF 180	180	70	23	73	86	71	30	**138151**	60 Sh	1700

Type	Code	Øext (mm)	Øint (mm)	Thickness (mm)
TF 55 Washer	**611056**	54	17	3
TF 100 Washer	**606484**	110	24,5	5
TF 105 Washer	**606481**	105	18	5
TF 150 Washer	**610379**	150	24,5	10
TF 180 Washer	**610383**	200	20,5	10

NATURAL FREQUENCY GRAPHS
AMC MECANOCAUCHO® TF



LOAD DEFLECTION GRAPHS
AMC MECANOCAUCHO® TF



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SCH

DESCRIPTION

The AMC MECANOCAUCHO® SCH type mounts are made of two parts of rubber, one of which bears an inside metal bushing which acts as a guide through the machine anchoring screw.

It is installed pre-compressed on the actual machine frame, whose thickness "T" determines the degree of precompression.

TECHNICAL CHARACTERISTICS

This antivibration mount is ideal for applications of major dynamic loads where movement control is necessary, such as in the cabins of all types of mobile vehicles. It also offers optimal stability, as well as good attenuation of impacts and vibrations.

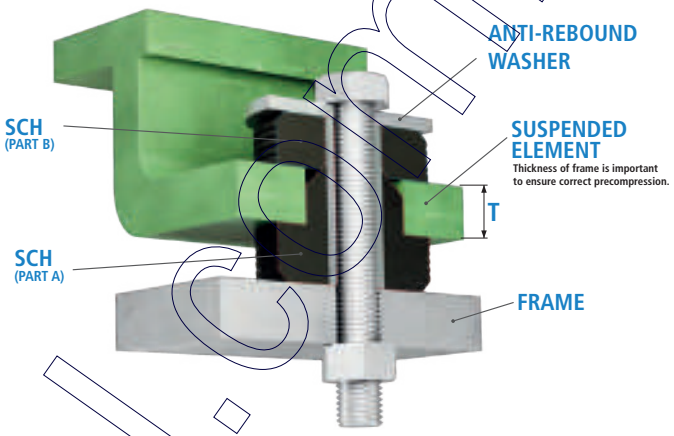
APPLICATIONS

- Vehicle cabins.
- Public works and agricultural vehicles, etc.

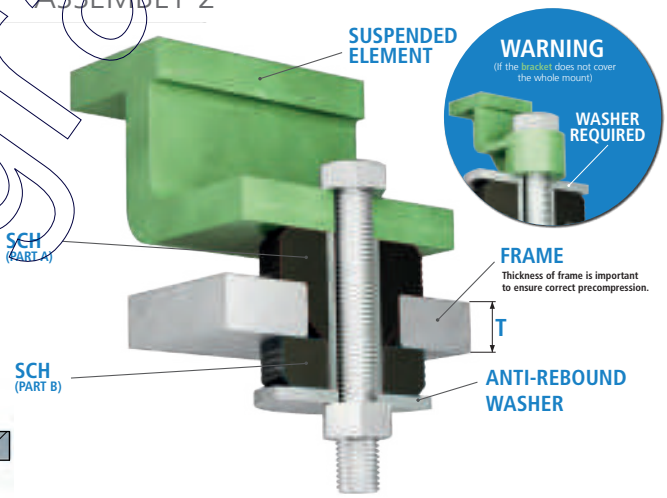
ASSEMBLY INSTRUCTIONS

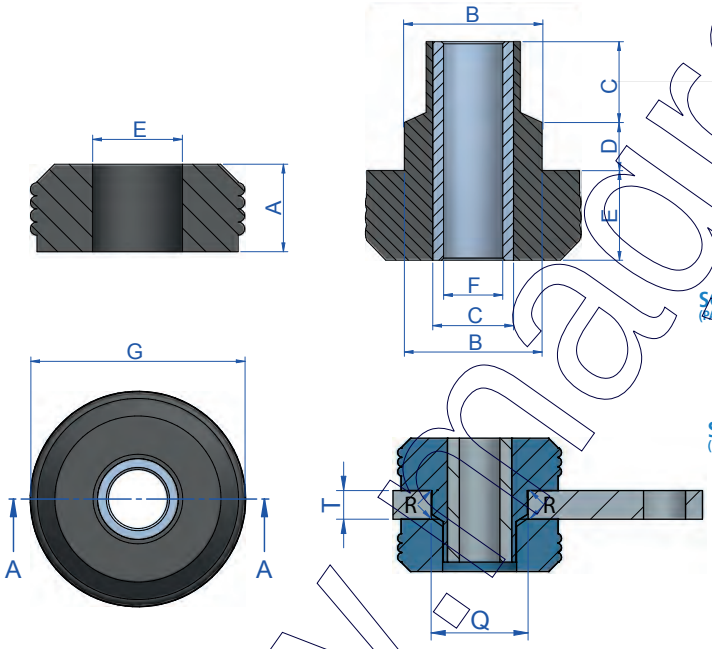
The SCH mounts should be assembled according to the following installation instructions. There are two possible configurations, see assembly 1 and assembly 2, for which the recommendations given in the following chart must be observed. They can be installed in plates of different thicknesses according to the Tmax and Tmin values given in the table at the bottom. The Load vs. Deformation curves will vary according to the thickness of the plate on which the mount is to be installed.

ASSEMBLY 1



ASSEMBLY 2

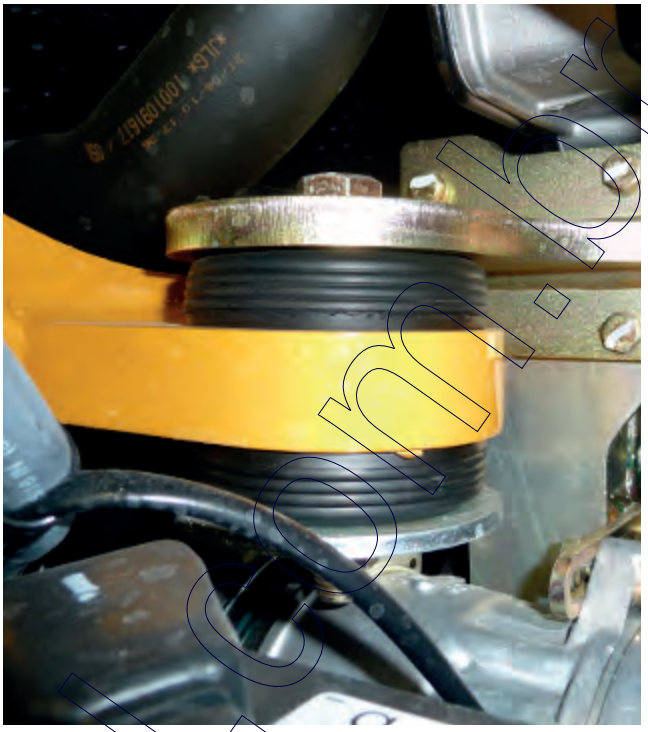




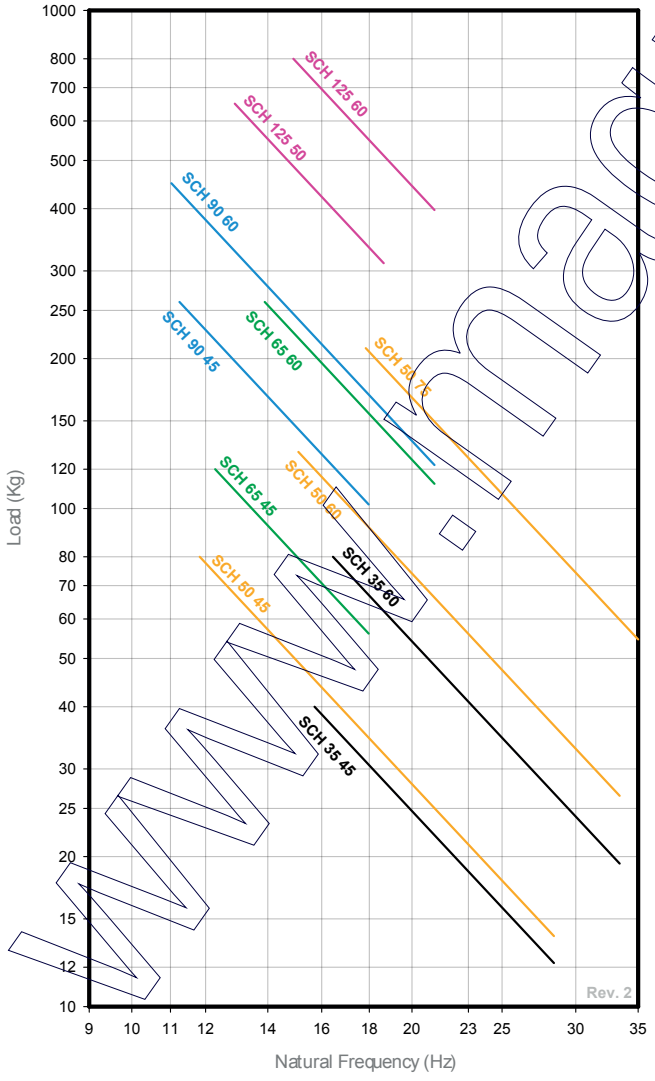
The anti-rebound washer is mandatory to be a Fail-Safe System. The thickness of the washer depends on the application. Please contact us, if you have any question.

Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Q (mm)	T (Max.)	T (Min.)	Weight (gr.)	R (mm)	Code	Shore	Max.
SCH 35	11	20,1	11	4	11	8,1	33,5	19,1	6	6	94	1	**138677**	45 Sh	40
													138678	60 Sh	80
SCH 50	20	31	19,5	10,5	20	13,5	49	30,5	14	12,5	153	1,5	**138501**	45 Sh	80
													138504	60 Sh	130
													138522	75 Sh	210
SCH 65	23	39,5	24	15	23	17	63,5	38,5	22	19	350	2,5	**138502**	45 Sh	120
													138505	60 Sh	260
SCH 90	25	58	31	17	25	23	88	57	29	25	675	3	**138503**	45 Sh	260
													138506	60 Sh	450
SCH 125	32	64,5	32	22	32	27	125,5	64	32	25	1440	3	**138514**	50 Sh	650
													138515	60 Sh	800

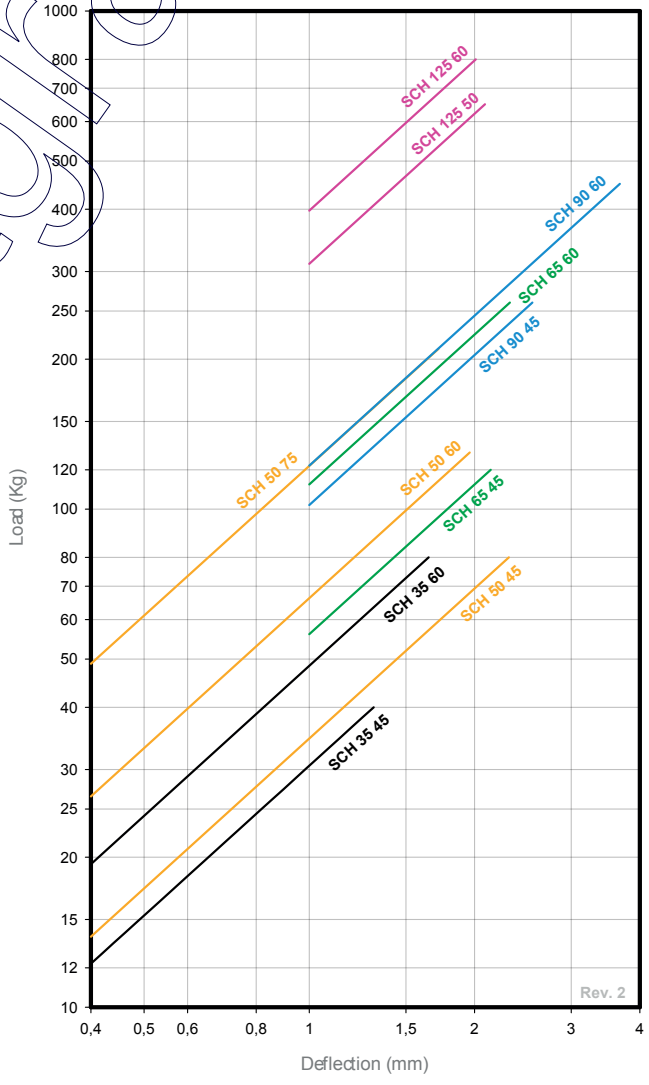
Type	Code	Øext (mm)	Øint (mm)	Thickness (mm)
SCH 35 WASHER	**610053**	38	8,5	2
SCH 50 WASHER	**611080**	54	12,5	3
SCH 65 WASHER	**606130**	67	16,5	5
SCH 90 WASHER	**608101**	95	22	6
SCH 125 WASHER	**610123**	125	25	8



NATURAL FREQUENCY
AMC MECANOCAUCHO® SCH



LOAD DEFLECTION GRAPH
AMC MECANOCAUCHO® SCH



AMC MECANOCAUCHO

SCHR

DESCRIPTION

The AMC MECANOCAUCHO® SCHR type mounts are made of two parts of rubber, one of which bears an inside metal bushing which acts as a guide through the machine anchoring screw. It is installed pre-compressed on the actual machine frame, whose thickness “T” determines the degree of precompression.

Moreover it contains a metallic part, that avoids a premature wear by friction between the rubber and the housing of the mount.

TECHNICAL CHARACTERISTICS

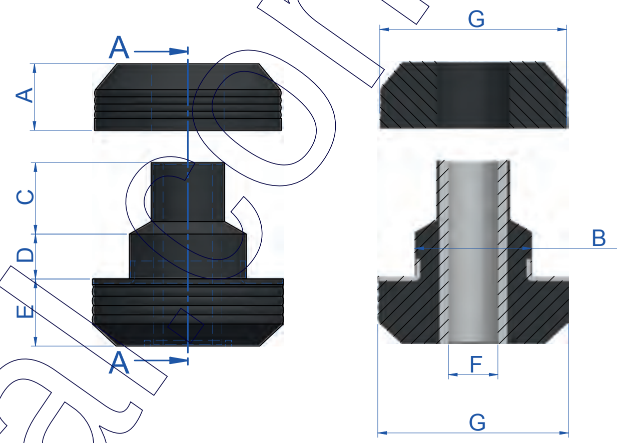
This antivibration mount is ideal for applications of major dynamic loads where movement control is necessary, such as in the cabins of all types of mobile vehicles. It also offers optimal stability, as well as good attenuation of impacts and vibrations.

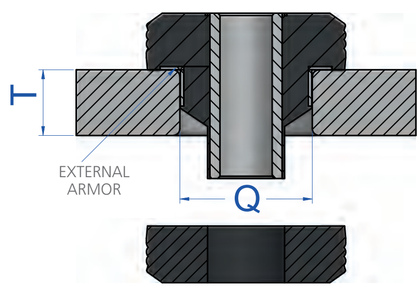
APPLICATIONS

- Vehicle cabins
- Public works and agricultural vehicles, etc.

ASSEMBLY INSTRUCTIONS

The SCHR mounts should be assembled according to the following installation instructions. There are two possible configurations, see assembly 1 and assembly 2, for which the recommendations given in the following chart must be observed. They can be installed in plates of different thicknesses according to the Tmax and Tmin values given in the table at the bottom. The Load vs. Deformation curves will vary according to the thickness of the plate on which the mount is to be installed.





Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Q (mm)	T (Max.)	T (Min.)	Weight (gr.)	Code	Shore	Max. Load (kg)
SCHR 35	11	20,1	11	4	11	8	34,5	20,4	6	6	42	**138621**	45 Sh	40
												138623	60 Sh	80
SCHR 50	20	31,7	19,5	10,5	20	13,5	49	31,8	14	12,5	153	**138535**	45 Sh	80
												138534	65 Sh	150
												138559	75 Sh	200
SCHR 65	23	39,5	24	15	23	16,75	64,5	40	22	19	269	**138551**	50 Sh	160
												138552	65 Sh	300
SCHR 90	25	56,5	31	17	25	23	88	57	29	25	675	**138547**	45 Sh	260
												138548	60 Sh	450
SCHR 125	32	65,4	32	22	32	27	125,5	65,8	32	25	1440	**138216**	50 Sh	650
												138217	60 Sh	800
SCHR 140	35	70	31	13	35	31	140	71	20	20	1900	**138508**	45 Sh	700
												138510	60 Sh	2000

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

Type	Code	Weight (kg)	Øext (mm)	Øint (mm)	Thickness (mm)
SCHR 35 Washer	**610053**	0,03	38	8,5	2
SCHR 50 Washer	**611080**	0,051	54	13,5	3
SCHR 65 Washer	**606130**	0,125	67	16,5	5
SCHR 90 Washer	**608101**	0,31	96	22	6
SCHR 125 Washer	**610123**	0,58	145	25	8
SCHR 140 Washer	**608115**	1,251	145	30	10

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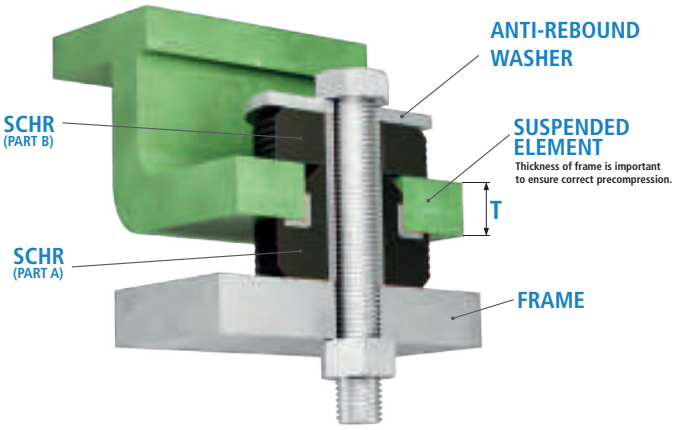
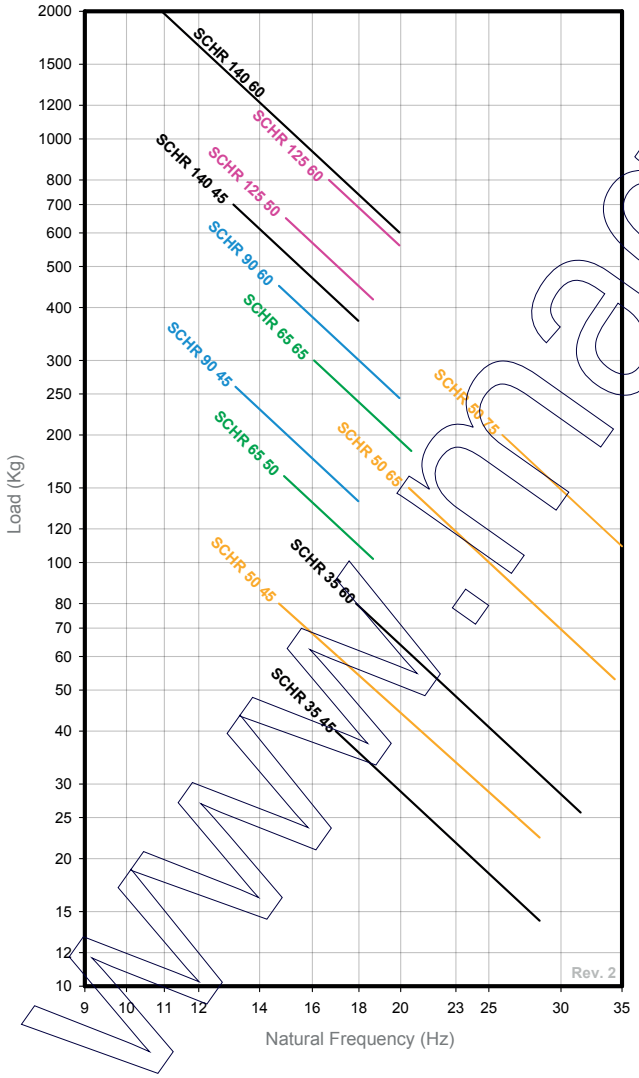
ASSEMBLY 1

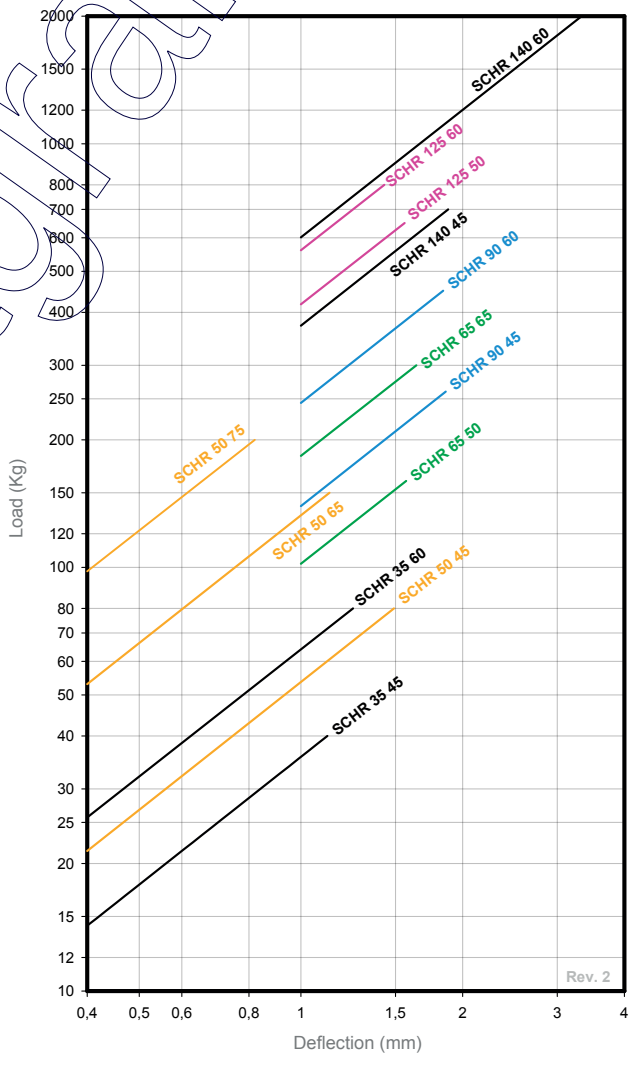


ASSEMBLY 2

NATURAL FREQUENCY
AMC MECANOCAUCHO® SCHR



LOAD DEFLECTION GRAPH
AMC MECANOCAUCHO® SCHR



SCB

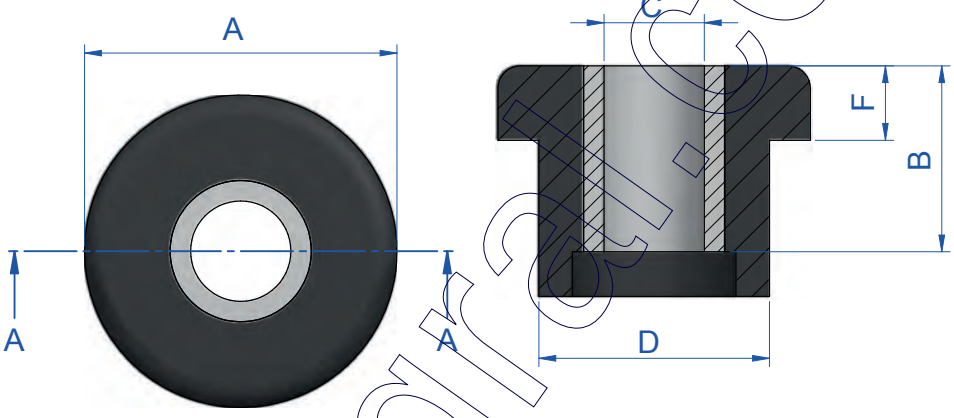
DESCRIPTION

The SCB elastic mounts are elements that work on the basis of compression since thanks to their design and assembly they provide an anti-rebound effect, thus permitting safety assemblies.

ADVANTAGES

- Easy to install
- Simple and economical product.
- Wide range of loads.

Their failsafe feature makes them very recommendable for mobile applications.

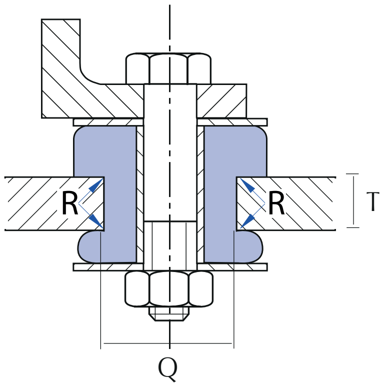


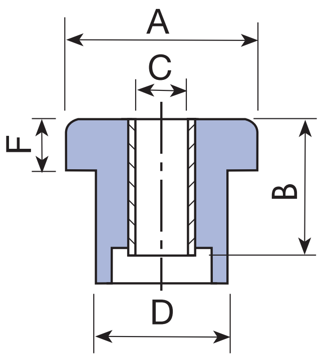
Washers should be used, if the rubber surface is not covered with the contact surface.
Washers upon request.

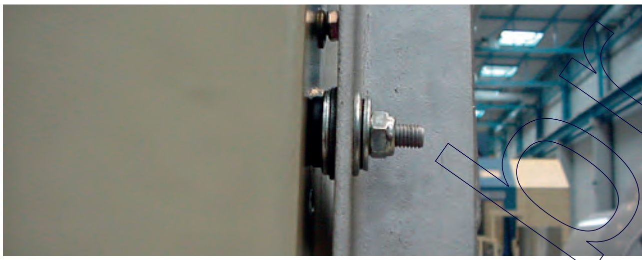
Type	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	Q (mm)	T (Max.)	T (Min.)	Weight (gr.)	R (mm)	Code	Load (kg)	Shore
SCB 20	27	15,5	10,25	20	7	19,5	5	4	20	1	**138013**	30	45 Sh
											138019	38	60 Sh
SCB 20i	27	15,5	8	20	7	19,5	5	4	20	1	**138056**	38	60 Sh
SCB 25	27,5	21	10	20	6,5	19,5	15	14	20	1	**138001**	50	60 Sh
SCB 35	27,5	12,5	8	19,4	8,5	19	4	3	30	0,5	**138012**	25	45 Sh
SCB 38	33,5	19	10,5	20,5	11	20,5	5	3	30	0,5	**138043**	50	60 Sh
											138044	80	75 Sh
SCB 40	35	15,5	13	26,5	8	26,5	5	4	50	1	**138022**	75	60 Sh
SCB 45	41,5	25,5	13,75	31	10	30	11	10	56	1,5	**138002**	100	60 Sh
SCB 50	49,5	35	13,5	34	13,5	33	17	16	73	1,5	**138003**	200	60 Sh
SCB 60	63	31,2	16,2	41	17	40	10	9	108	3	**138004**	250	60 Sh
SCB 65	62	43,5	16,5	40	17	39	20	19	140	3	**138005**	250	60 Sh
SCB 95	92	51,5	20,5	56	26,5	54,5	20	19	395	3	**138011**	1000	65 Sh

Type	Øext (mm)	Øint (mm)	Thickness (mm)	Code	Weight (kg)
SCB 20 WASHER	28	10,5	2	**606185**	0,03
SCB 20i WASHER	28	8,5	2	**606124**	0,03
SCB 25 WASHER	28	8,5	2	**606124**	0,03
SCB 35 WASHER	28	8,5	2	**606124**	0,03
SCB 38 WASHER	38	12,5	3	**611065**	0,04
SCB 40 WASHER	38	12,5	3	**611065**	0,04
SCB 45 WASHER	54	12,5	3	**611080**	0,051
SCB 50 WASHER	54	12,5	3	**611080**	0,051
SCB 60 WASHER	66	16,5	5	**606130**	0,125
SCB 65 WASHER	66	16,5	5	**606130**	0,125
SCB 95 WASHER	95	22	6	**608101**	0,31

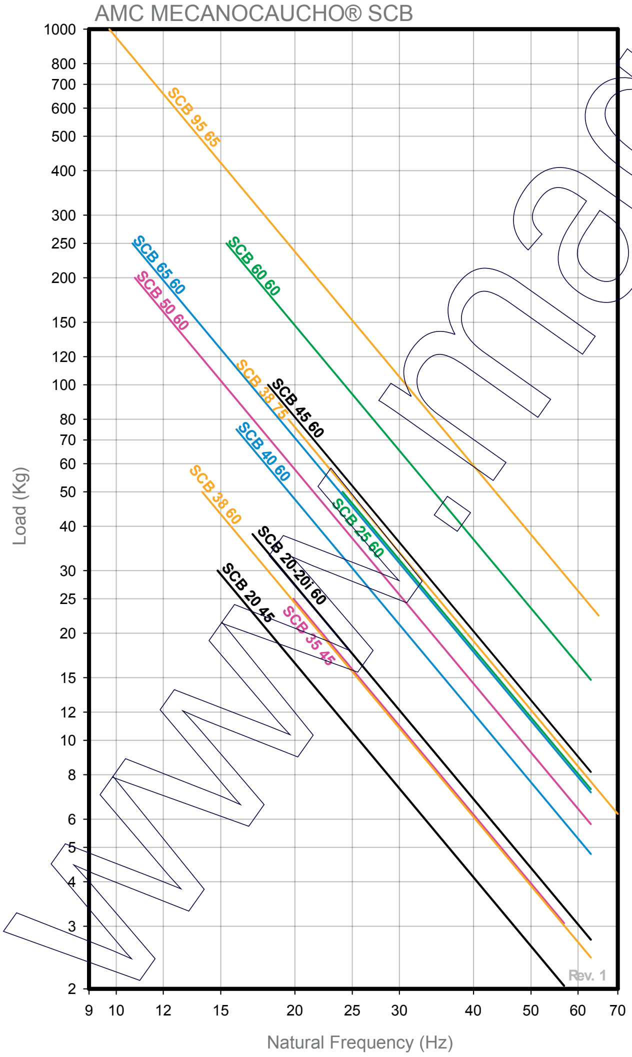
ASSEMBLY



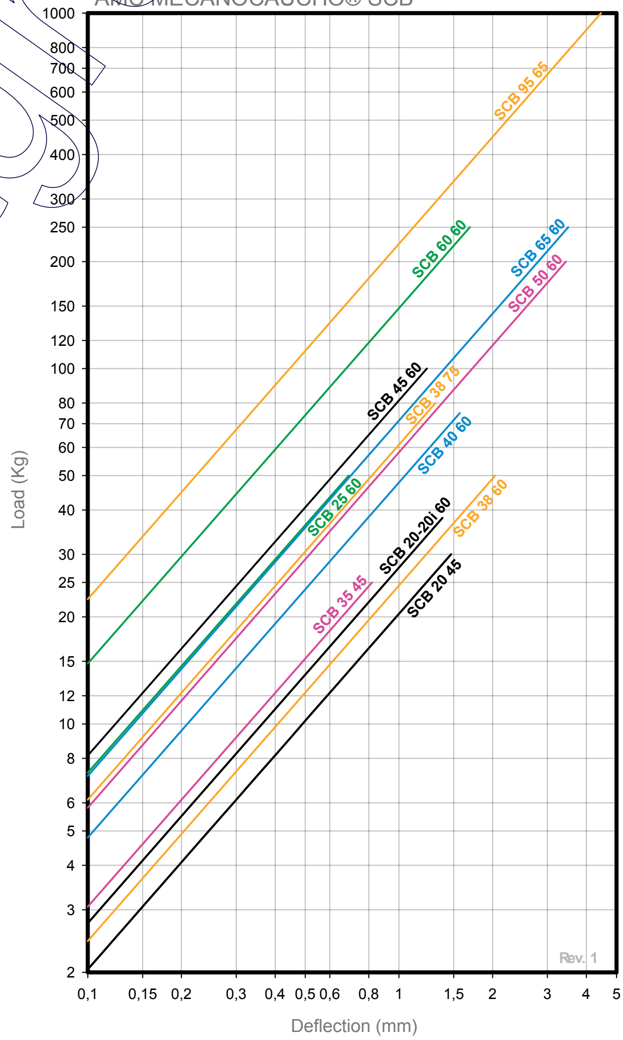




NATURAL FREQUENCY
AMC MECANOCAUCHO® SCB



LOAD DEFLECTION GRAPH
AMC MECANOCAUCHO® SCB



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SCBR

DESCRIPTION

The SCBR elastic mounts are elements that work on the basis of compression since thanks to their design and assembly they provide an anti-rebound effect, thus permitting safety assemblies.

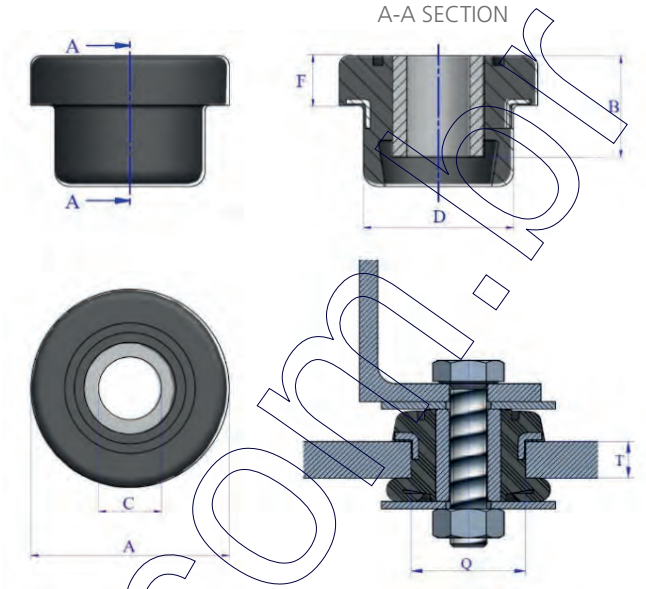
Moreover it contains a metallic part, that avoids a premature wear by friction between the rubber and the housing of the mount.

ADVANTAGES

The inside stop effect makes them very recommendable for safety purposes.

- Easy to assemble.
- Simple and economical product.
- Wide range of loads.

A-A SECTION

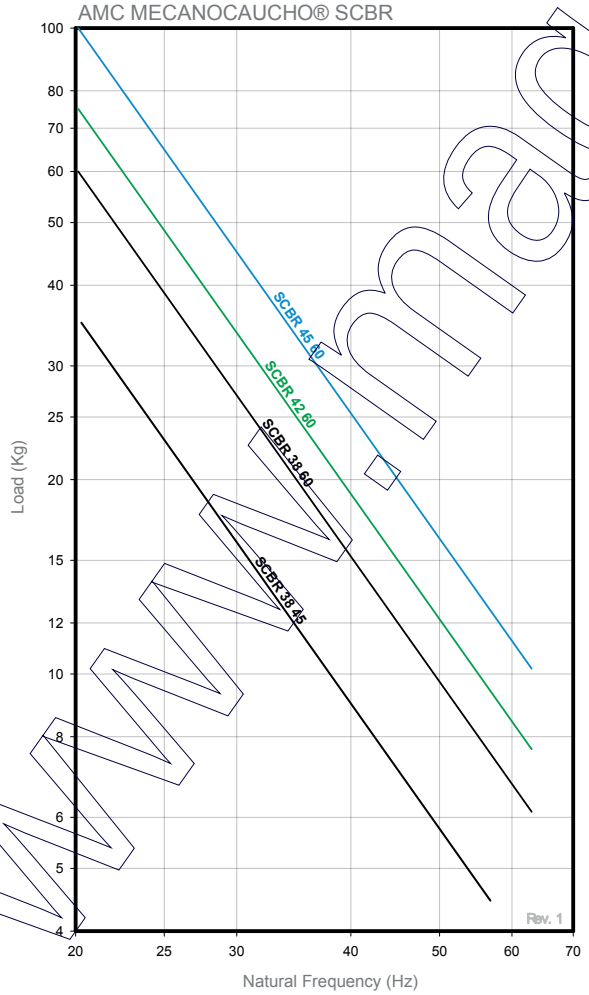


Washers should be used, if the rubber surface is not covered with the contact surface.
Washers upon request.

Type	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	Q (mm)	T (Max.)	T (Min.)	Weight (gr.)	Washer	Code	Load (kg)	Shore
SCBR 38	34	19	10,75	20,75	11	20,5	5	3	30	611065	**138045**	35	45 Sh
SCBR 42	42	21,25	13	31,5	9,5	31,5	6	6	40	611080	**138051**	75	60 Sh
SCBR 45	42	25,5	10,5	31,5	10	30	11	10	56	611080	**138027**	100	60 Sh

Type	Øext (mm)	Øint (mm)	Thickness (mm)	Code	Weight (kg)
SCB 38 WASHER	38	12,5	3	**611065**	0,04
SCB 42 WASHER	54	12,5	3	**611080**	0,051
SCB 45 WASHER	54	12,5	3	**611080**	0,051

NATURAL FREQUENCY
AMC MECANOCAUCHO® SCBR



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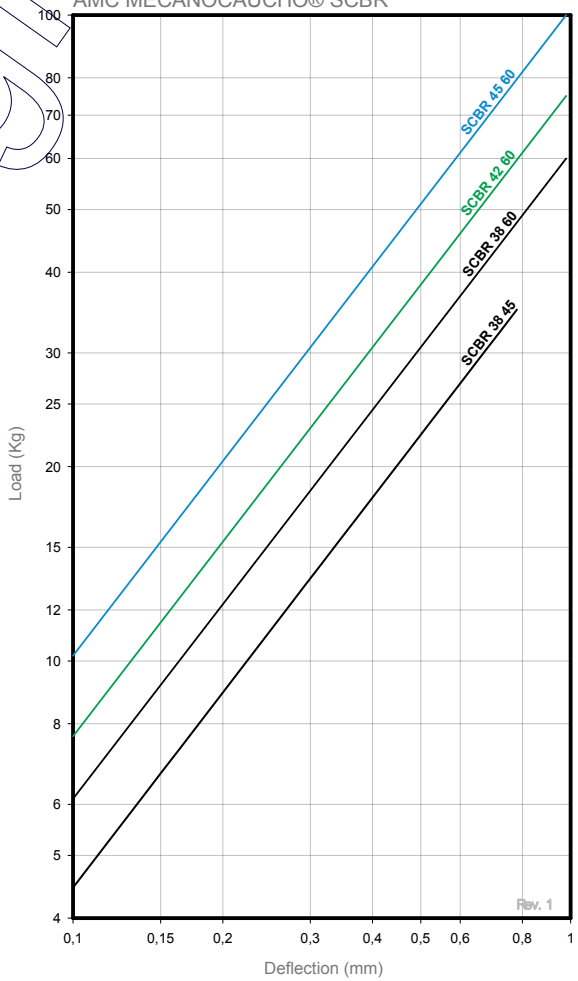
AMC MECANOCAUCHO® SCBR



VD

DESCRIPTION

The AMC MECANOCAUCHO® mount works the elastomer at shear-compression. It is comprised of 2 metal parts which allow it to be installed with its two built-in screws.

TECHNICAL CHARACTERISTICS

The type VD is a vee shaped mount providing high deflections for relatively low loads. This means that the natural frequency is low and ideal for engines which normally run at idle speed.

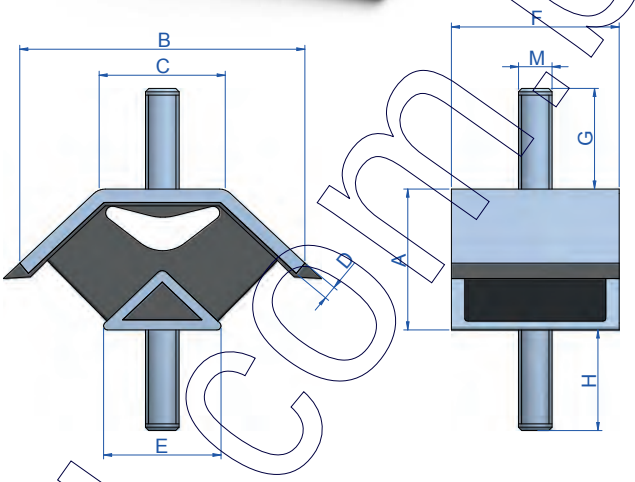
It has three different stiffnesses rates X,Y,Z which permits adjustments of system modes for optimal isolation and stability.

They can be installed at specific angles providing further adjustment to the systems characteristics. For this purposes, please contact our technical department.

APPLICATIONS

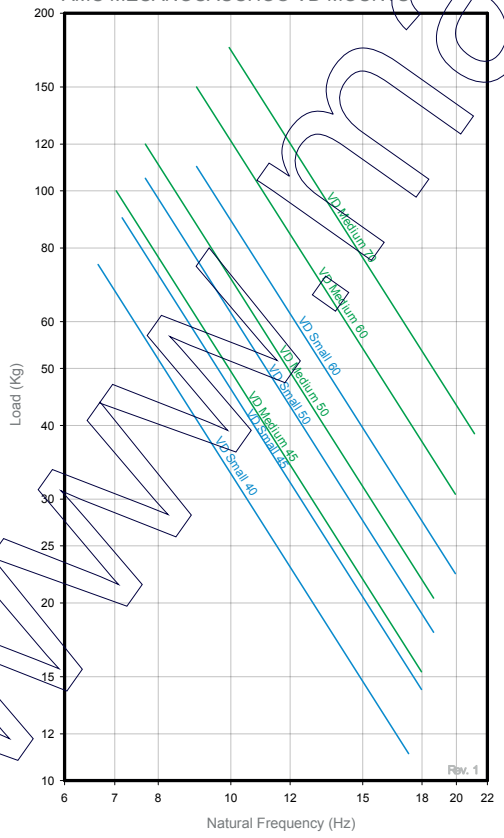
It is used in applications where the load of the suspended unit is low and the level of vibration isolation must be high, such as:

- Small vehicles.
- Small and mediuMsized gen sets.
- Construction equipment machinery.

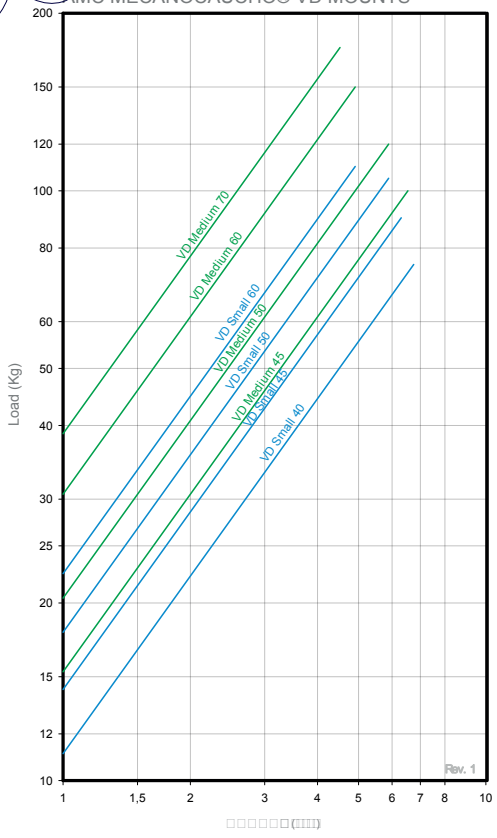


Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	M	Weight (gr.)	Code	Load (kg)
Small 40	41	95	39	4	35	50	23	25	M-10	330	**148121**	75
Small 45 M12	41	95	39	4	35	50	30	30	M-12	350	**148132**	90
Small 50	41	95	39	4	35	50	23	25	M-10	330	**148123**	100
Small 60	41	95	39	4	35	50	23	25	M-10	330	**148125**	110
Small 60 M12	41	95	39	4	35	50	30	31	M-12	350	**148133**	110
Medium 45	64	130	60	6	52	60	34	36	M-12	805	**148101**	100
Medium 50	64	130	60	6	52	60	34	36	M-12	805	**148102**	100
Medium 60	64	130	60	6	52	60	34	36	M-12	805	**148104**	150
Medium 70	64	130	60	6	52	60	34	36	M-12	805	**148105**	175

NATURAL FREQUENCY
AMC MECANOCAUCHO® VD MOUNTS



LOAD DEFLECTION GRAPH
AMC MECANOCAUCHO® VD MOUNTS



V-SHAPED MARINE TYPE

DESCRIPTION

The AMC MECANOCAUCHO® V-shaped marine mount works the rubber section in shear-compression. It is comprised of 2 metal parts which permit its installation by means of a screw at the top and two holes for securing it to the chassis.

TECHNICAL CHARACTERISTICS

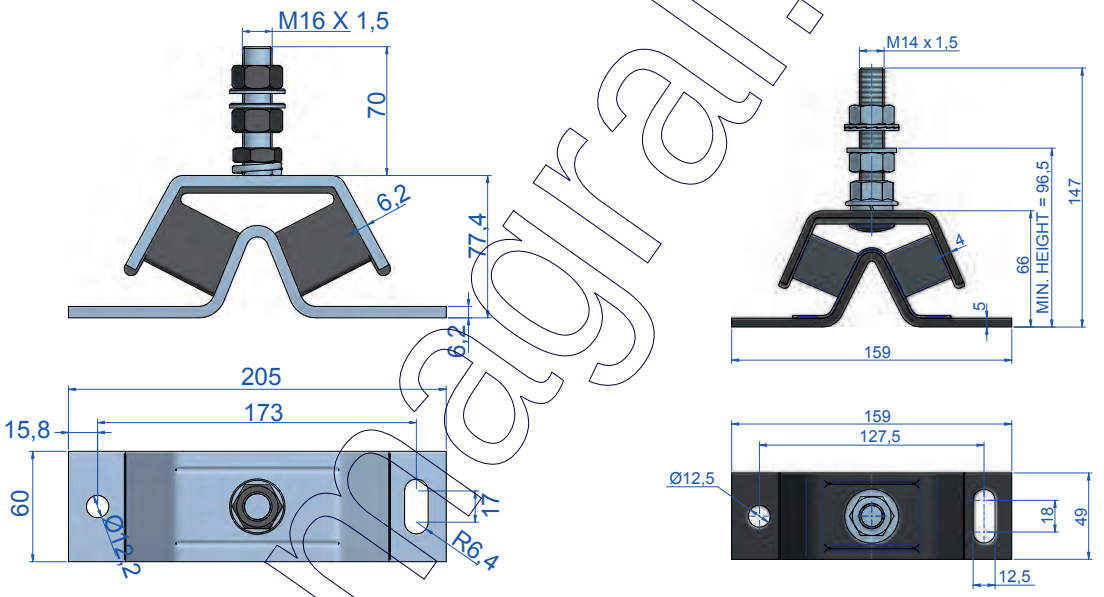
The AMC MECANOCAUCHO® V-shaped marine mount has a V-shaped design providing high deflections for relatively low loads. This means that the natural frequency is low and ideal for engines which normally work at iddle speed.

It has three different stiffness rates X,Y,Z which permits adjustments of system modes for optimal isolation and stability.

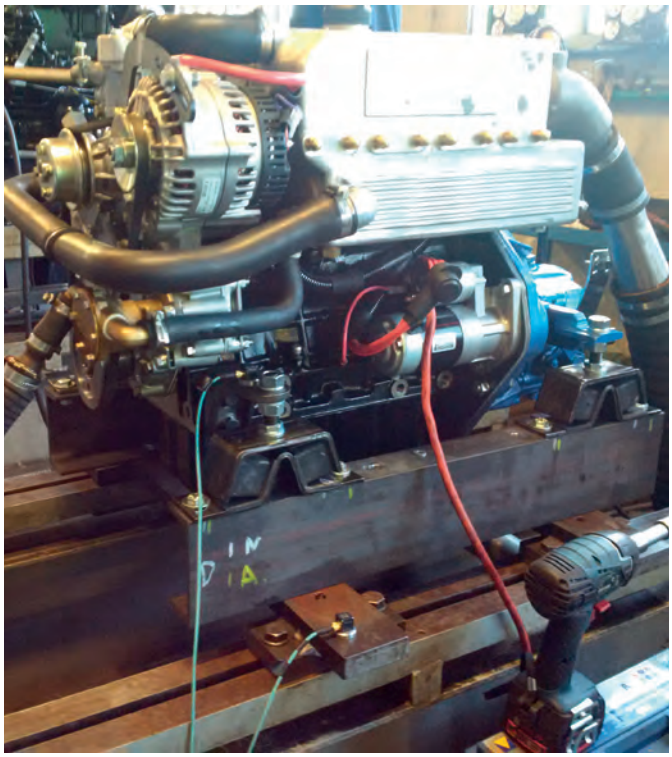
APPLICATIONS

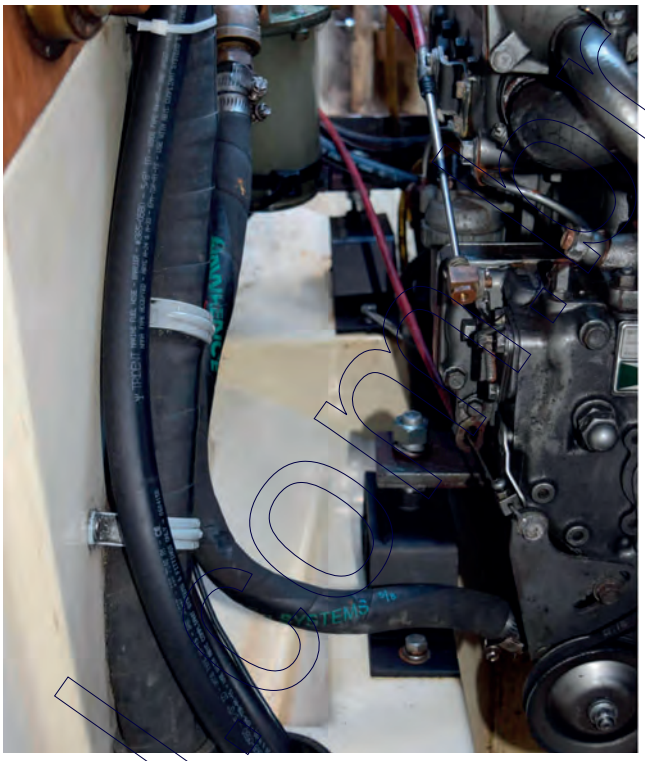
It is used in applications where the load of the suspended unit is low, and where high deflection is required to reach high vibration isolation levels.

Small vehicle or machines, small and medium sized gensets, marine engines,...

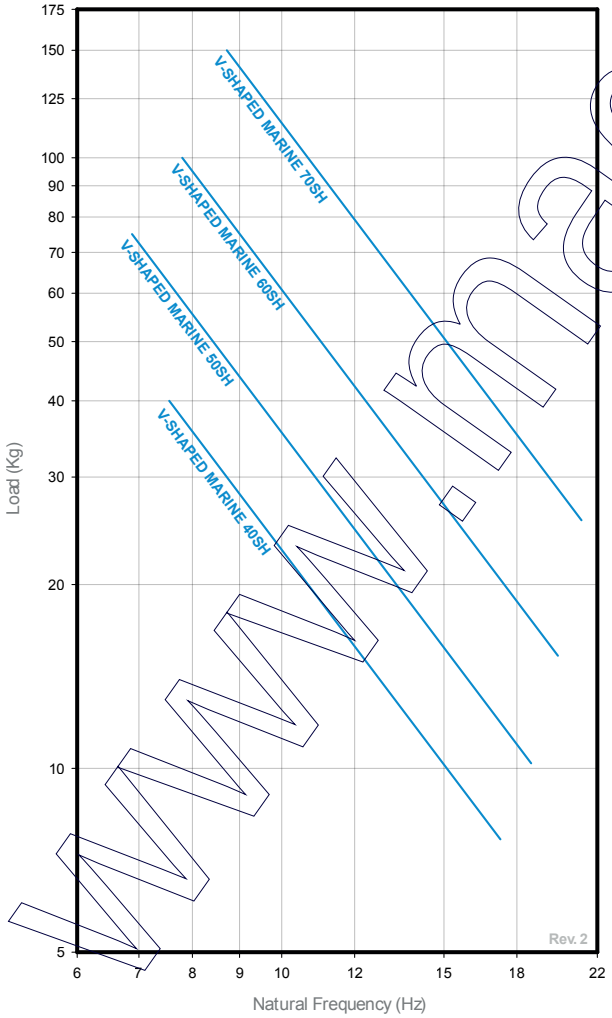


Type	Weight (gr.)	Code	Descrip.	Load (kg)	Shore
V-shaped marine	1720	**148001**	75	40	40 Sh
		148003	100	75	50 Sh
		148004	150	100	60 Sh
		148006	200	150	70 Sh
Small V-shaped marine	925	**136279**	50	40	
		136338	70	40	

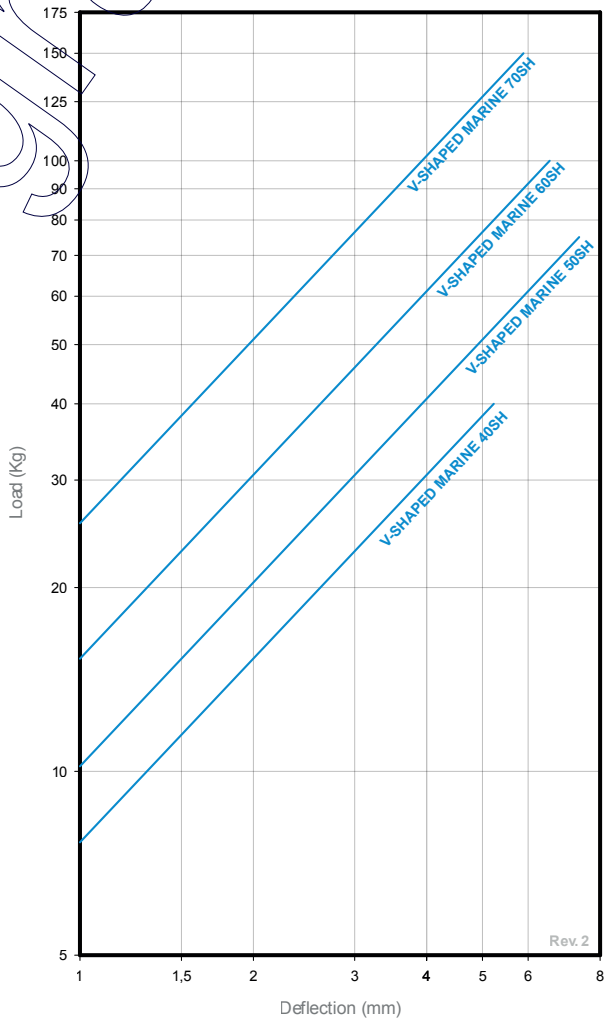




NATURAL FREQUENCY
AMC MECANOCAUCHO® V-SHAPED MARINE MOUNT



LOAD DEFLECTION GRAPH
AMC MECANOCAUCHO® V-SHAPED MARINE MOUNT



Type AN-60

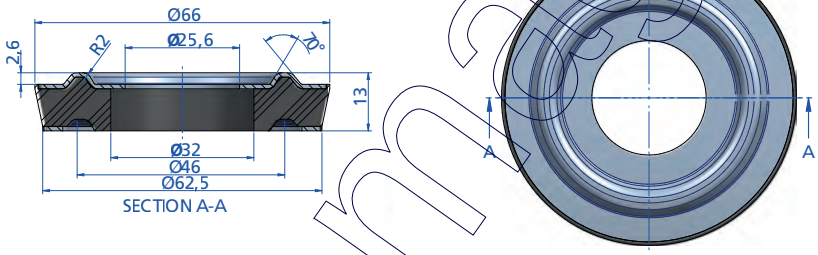
The AMC-MECANOCAUCHO® anti vibration mounts type AN-60 have a specific design that allows suspensions with tunable traction indexes and compression rigidity. This feature is particularly useful in those applications where the vibration and transient forces come mainly in axial direction. The metal parts are robust and are designed with a specific groove that allows the supplementary AN-60 to be stacked.

The metal parts that make up this support are treated with Zinck Nickel coating. This characteristic allows them to have a high protection against the agents present in the exterior, such as the saline mist.

APPLICATIONS

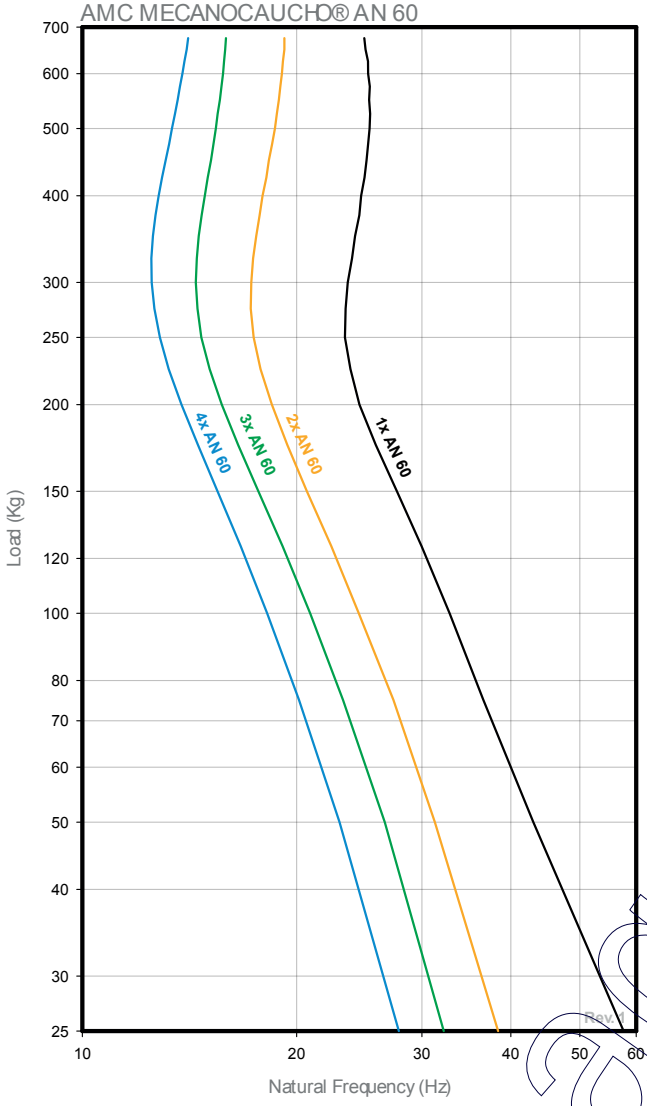
AMC-MECANOCAUCHO® type AN-60 anti vibration mounts can be used from the suspension of vibratory equipment to Tune mass dampers or mobile applications that are exposed to compression and traction forces:

- The assembly on board of equipment on ships
- Railroads
- Road Transport
- Engines
- Pumps
- Generating sets



Type	Shore	Deflection (mm)	Weight (kg)	Max. Load (kg)	**Code**
AN-60	60Sh	1,8	0,05	700	**180239**

NATURAL FREQUENCY
AMC MECANOCAUCHO® AN 60



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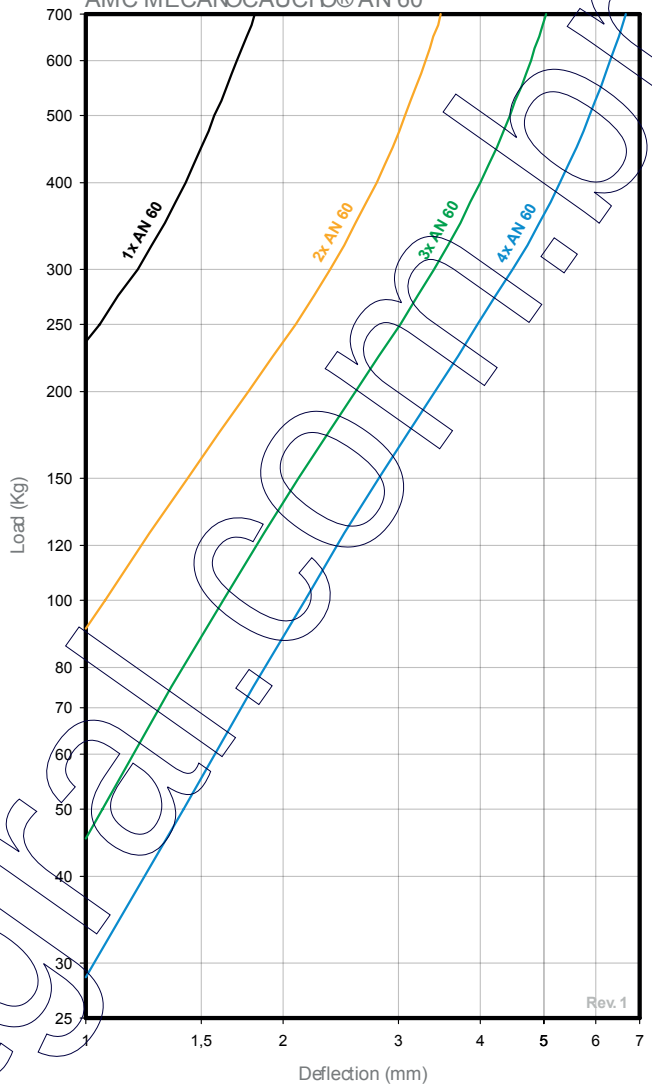
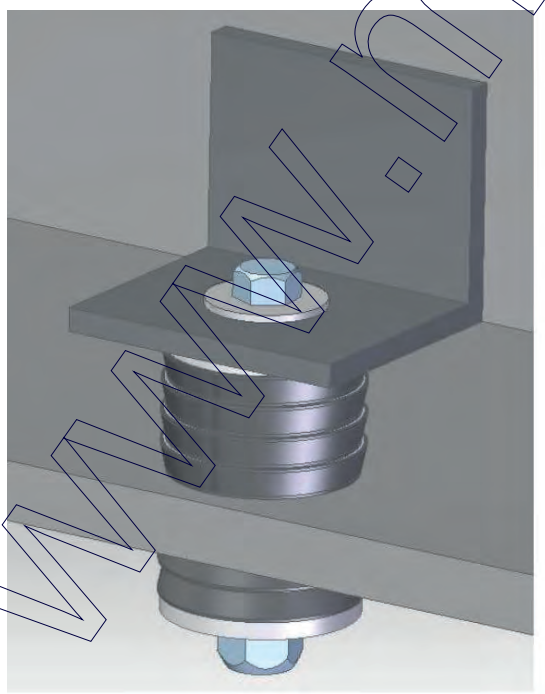
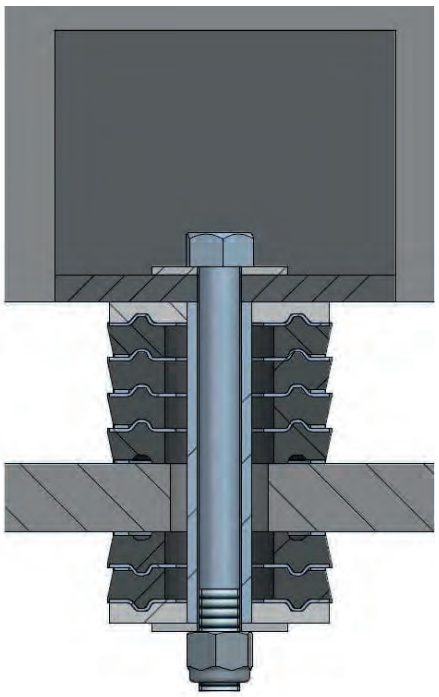
AMC MECANOCAUCHO® AN 60







AMC MECANOCAUCHO

NP

DESCRIPTION

The AMC MECANOCAUCHO® NP mounts are composed of a metallic flange and a bush that are bondend to a high resilient rubber compound.

The AMC MECANOCAUCHO® NP mounts can be fitted with overload/rebound washers. This allows fail-safe installations. For this purpose we recommend using washer Ref. AMC: 608074 that has the following dimensions: 76 x 16.5 x 5mm.

The flange comes with four fixing holes and the inner bush allows up to 120 N/mm tightening torque.

TECHNICAL CHARACTERISTICS

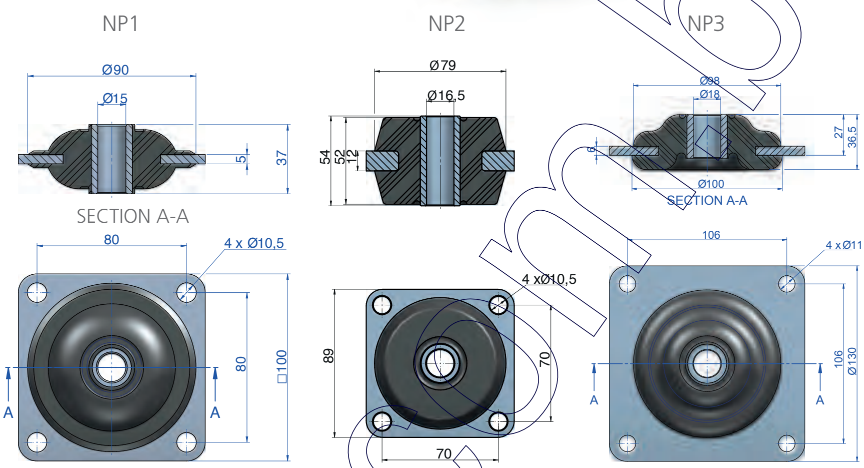
AMC MECANOCAUCHO® NP mounts can be applied in mobile applications when installed with overload/rebound washers.

AMC MECANOCAUCHO® NP mounts are available in several rubber hardnesses to suit the load range of the application.

APPLICATIONS

AMC MECANOCAUCHO® NP mounts are used for the effective noise and vibration isolation in the following applications:

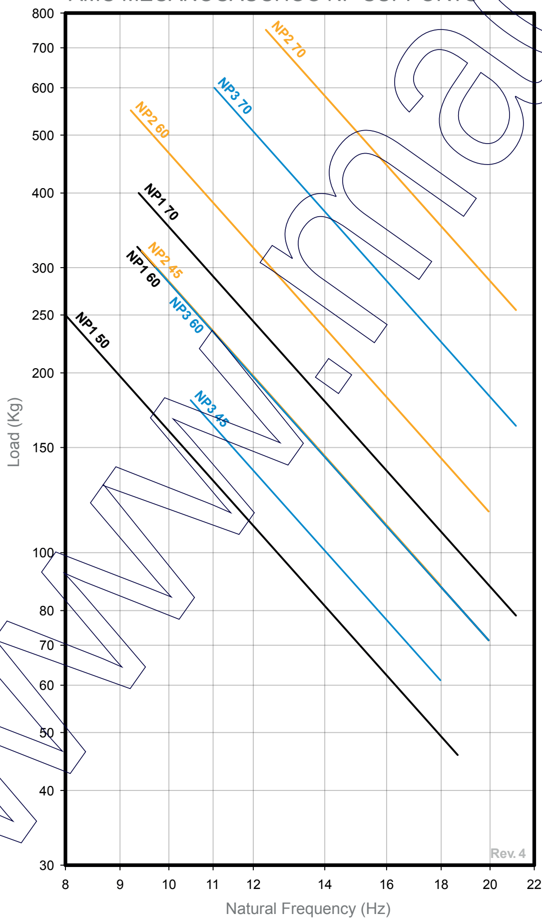
- Agricultural equipment
- Construction equipment machinery.
- Cranes.
- Forklift trucks.
- Multipurpose vehicles.



Type	Shore	Max. Load (kg)	Code
NP1	50Sh 60Sh 70Sh	250 325 400	**138202** **138201** **138203**
NP2	45Sh 60Sh 70Sh	320 550 750	**138205** **138206** **138207**
NP3	45Sh 60Sh 70Sh	110 200 300	**138190** **138191** **138192**

Type	Code
NP1 WASHER	**608074**
NP2 WASHER	**608074**
NP3 WASHER	**610285**

NATURAL FREQUENCY
AMC MECANOCAUCHO® NP SUPPORTS



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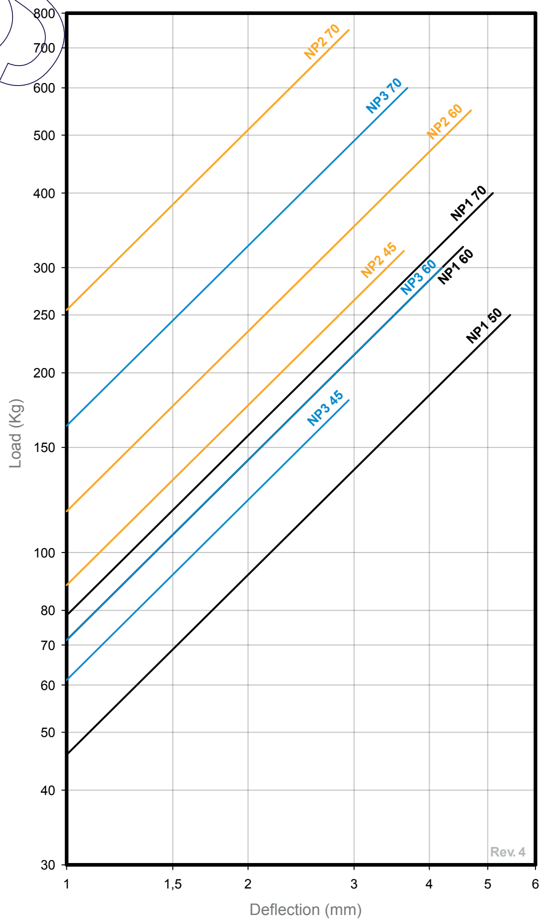
AMC MECANOCAUCHO® NP SUPPORTS



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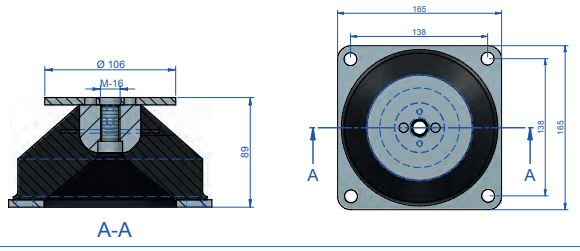
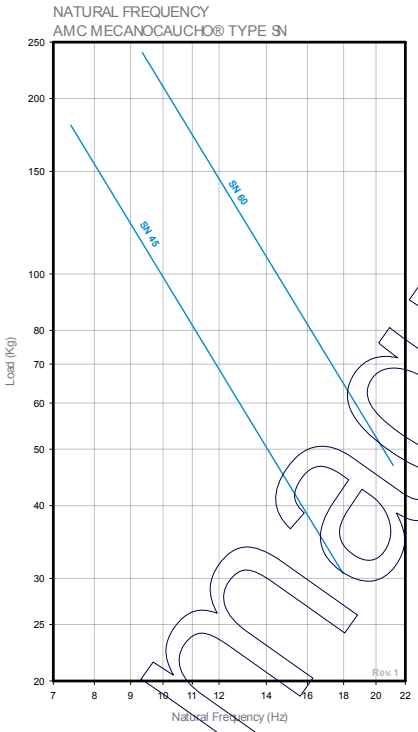
SN ANTI VIBRATION MOUNTS

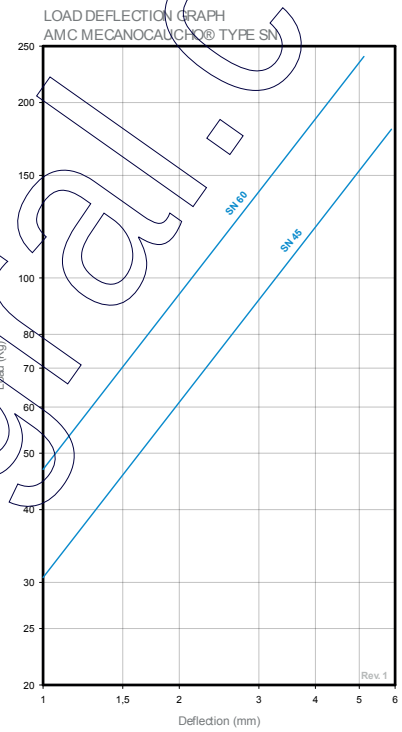
APPLICATIONS

It is a support used in multiple applications, but primarily in marine engines whose excitation frequency is less than or close to 1000 rev/min.



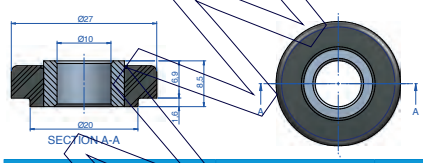
Type	Deflection mm	Weight (kg)	Shore	Max. Load (kg)	Code
SN	9	2,61	45 Sh	180	**139001**
	8	2,61	60 Sh	240	**139002**

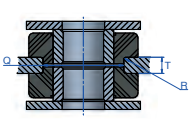


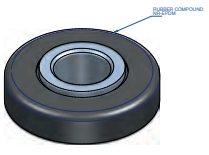


MECANOCAUCHO® TFS

The AMC-Mecanocaucho® TFS type anti vibration mounts are made of two symmetric moulded parts.
They are designed to work in traction or compression providing a similar stiffness.
When installed with metal washers they allow failsafe installations.







Type	Color Code	Shore	Q (mm)	T (mm)	Max. Load (kg)	R (mm)	Code
TFS 25	Yellow	45 Sh	20	4	10	1	**138035**

WASHERS

Washers are supplied on request.

Type	Weight (gr)	Øext (mm)	Øint (mm)	Thickness (mm)	Code
TFS 25	10	28,2	10,5	2	**606185**

AMC
MECANOCAUCHO

AT

DESCRIPTION

AMC MECANOCAUCHO® AT mounts are specifically designed to provide isolation for medium to high frequency applications.

The rubber section is fully bonded to two concentric tubular parts. The inner metal is a plain tube design. The outer metal part is also mainly tubular but has a manufacturing process Flanged effect at one end with a variation in the number of attachment holes.

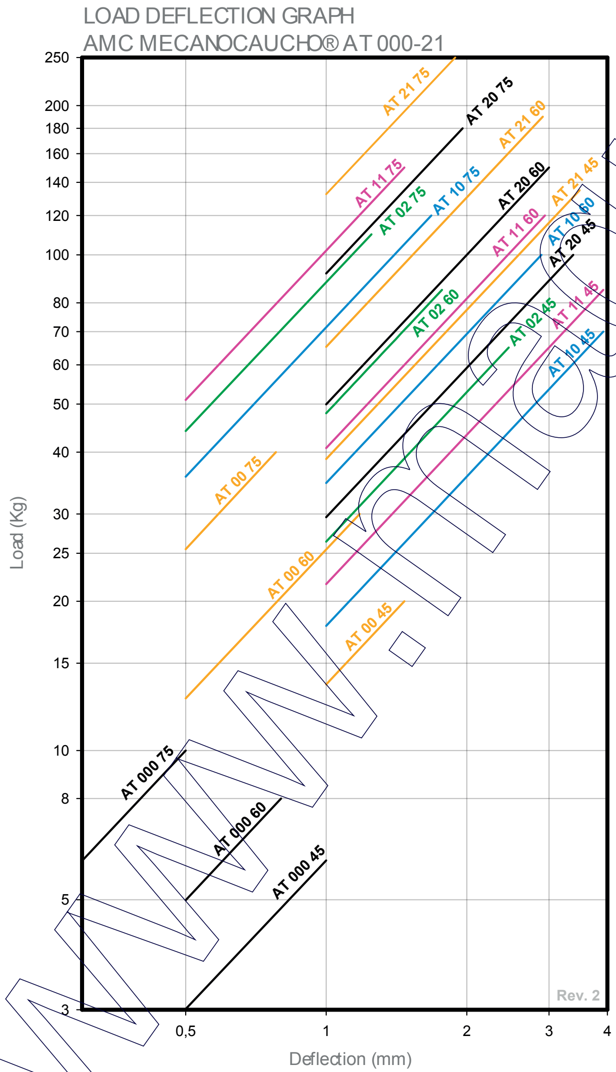
TECHNICAL CHARACTERISTICS

Type AT mounts have a radial to axial ratio of 4:1 , thus providing good horizontal stability.

It is manufactured in three hardnesses to facilitate the choice of the most suitable mount (Soft: hardness A 45, MediuMsized: hardness B 60 and Hard: hardness C 75).

APPLICATIONS

The AT elastic mounts can be used to great advantage for the vibration isolation of engines, piston compressors, presses, electric transformers, mobile units, machines, on concrete buttresses, etc.



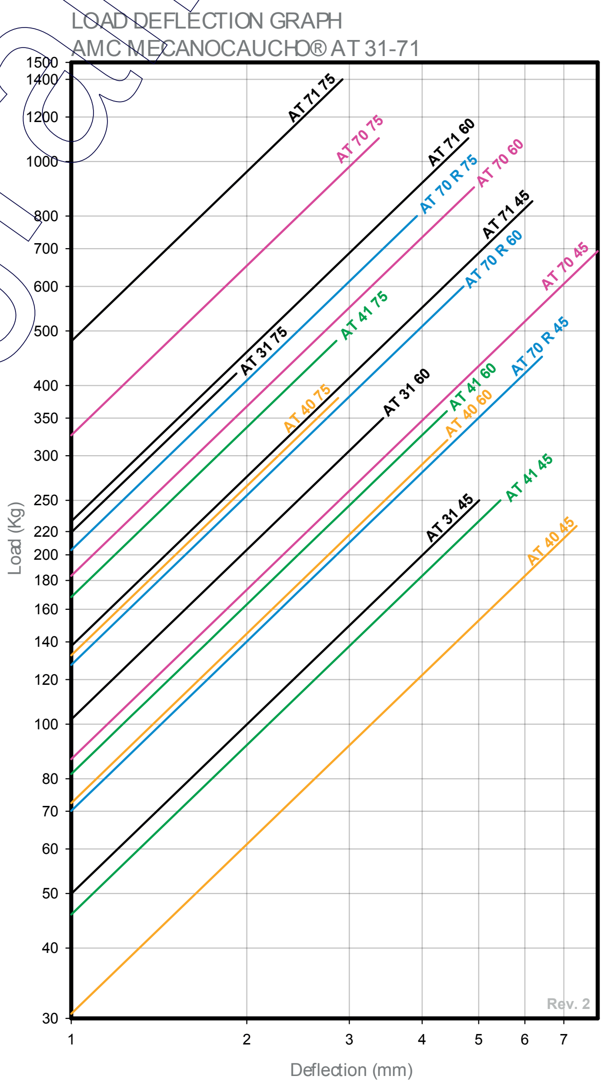


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Fig. 1

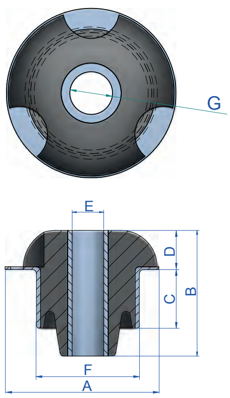


Fig. 2

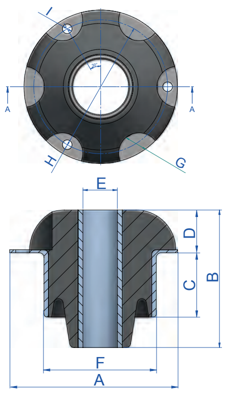


Fig. 3

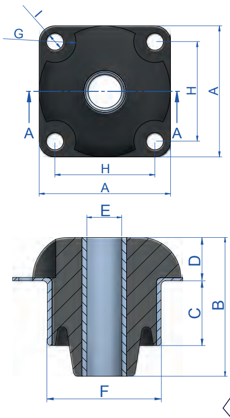
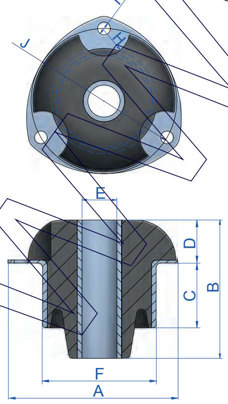
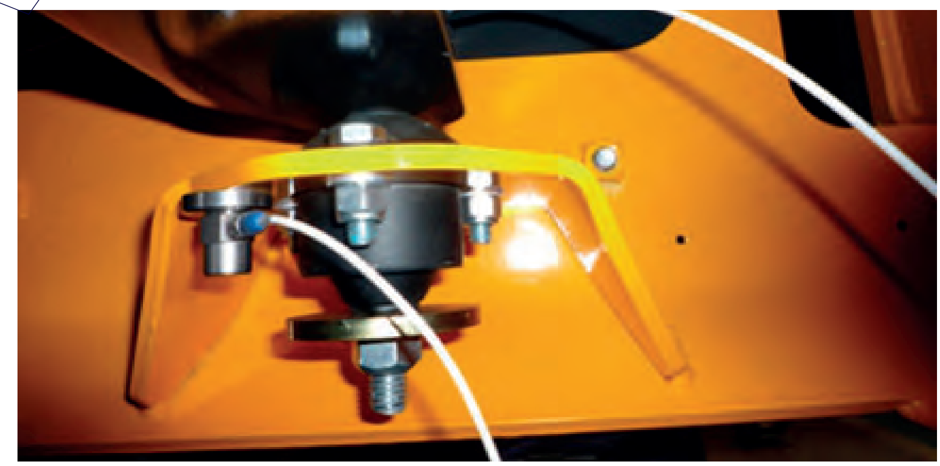


Fig. 4

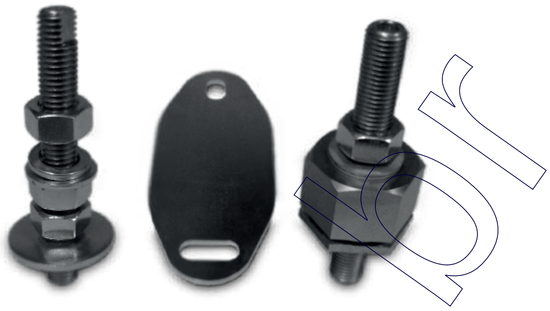


Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	Weight (gr.)	Fig.	Code	Load (kg)	Shore
AT 000	25	11	3	6,5	6,4	20	4	19	3,2		8	3	**132171**	6	45 Sh
													132172	8	60 Sh
													132173	10	75 Sh
AT 00	36	28	12,5	11,5	8,2	26	12	26	5,2		39	3	**132101**	20	45 Sh
													132102	30	60 Sh
													132103	40	75 Sh
AT 02	48	51	24	18	12,1	37,6	8	-	-		144	1	**132104**	65	45 Sh
													132105	85	60 Sh
													132106	110	75 Sh
AT 10	60	47	18	19	12,2	49	11	69	8,2	73	250	4	**132175**	70	45 Sh
													132176	100	60 Sh
													132177	120	75 Sh
AT 11	60	60	30,5	19	12,2	49	11	69	8,2	73	250	4	**132107**	85	45 Sh
													132108	120	60 Sh
													132109	150	75 Sh
AT 20	71	55	27,5	19	18,3	55,7	10	-	-		344	1	**132110**	100	45 Sh
													132111	150	60 Sh
													132112	180	75 Sh
AT 21 round	70	70	38,5	20,7	18,3	55,7	10	80	8,5	86	437	1	**132113**	135	45 Sh
													132114	190	60 Sh
													132115	250	75 Sh
AT 21 lugs	70	70	38,5	20,7	18,3	55,7	10	80	8,5	86	437	4	**132116**	135	45 Sh
													132117	190	60 Sh
													132118	250	75 Sh
AT 31 lugs	90	95	47	28	20,2	65	16	95	8,5	107	780	4	**132136**	250	45 Sh
													132137	350	60 Sh
													132138	420	75 Sh
AT 40 round	100	90	42	28	22,2	74	18	100	8,5	112	789	1	**132139**	225	45 Sh
													132140	320	60 Sh
													132141	380	75 Sh
AT 40 lugs	100	90	42	28	22,2	74	18	100	8,5	112	780	4	**132142**	225	45 Sh
													132143	320	60 Sh
													132144	380	75 Sh
AT 41 round	100	110	49	28	22,2	74	18	100	8,5	112	895	1	**132145**	250	45 Sh
													132146	360	60 Sh
													132147	480	75 Sh
AT 41 lugs	100	110	49	28	22,2	74	18	100	8,5	112	900	4	**132148**	250	45 Sh
													132149	360	60 Sh
													132161	480	75 Sh
AT 70 lower	163,5	97	36	46	60,2	118	22	145	10,5		3124	2	**132162**	450	45 Sh
													132163	600	60 Sh
													132164	800	75 Sh
AT 70	163,5	140	66	46	60,2	118	22	145	10,5		3124	2	**132165**	700	45 Sh
													132166	900	60 Sh
													132167	1100	75 Sh
AT 71	163,5	170	96	46	60,2	118	22	145	10,5		3790	2	**132168**	850	45 Sh
													132169	1100	60 Sh
													132170	1400	75 Sh



* AMC S.A. reserves the right to modify the design and manufacture of the materials presented in this catalogue without prior notice.

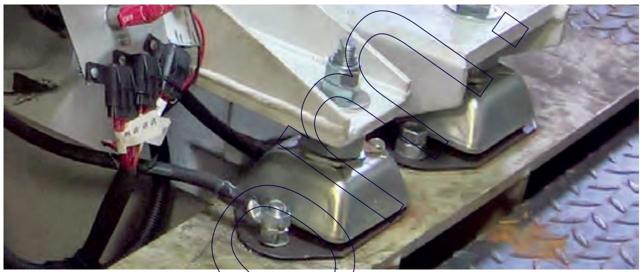
HEIGHT ADJUSTING SYSTEMS

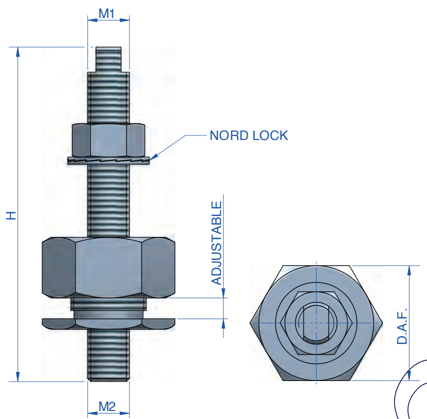


The AMC Mecanocaucho® height adjusting systems can be used to retrofit current installations. Please take into consideration the following information:

It is recommendable to settle the mountings at least 48hours before the alignment of the engine installation, especially for close coupling tolerances.

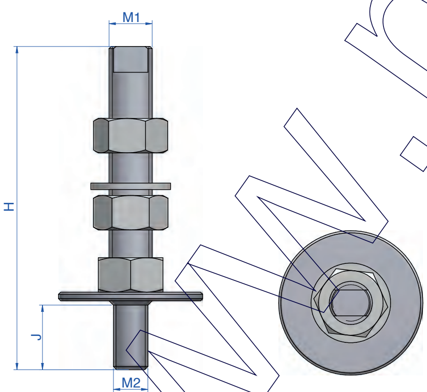
The use of high performance glue between the bolt and the mounting is advisable in order to increase the security.





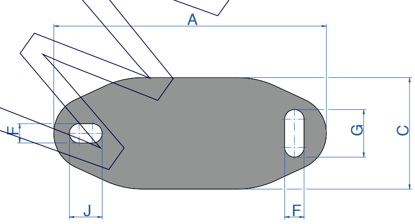
Hi-Sec

Type	Code	H (mm)	M1	M2	Adjustable (mm)	Machined head	D.A.F.	Weight (gr.)
HI-SEC	708077	110	M16	M12	± 5	Y	46	357
	708007	110	M16	M16	± 5	Y	46	514
	708094	130	M20	M20	± 5	N	46	775
	708079	110	M20	M16	± 10	Y	55	1095
	708029	160	M20	M20	± 10	Y	55	1011
	708005	160	M20	M20	± 10	N	55	1096
	708011	200	M24	M24	± 10	N	120	2234



Standard height adjusters

Type	Code	H (mm)	M1	M2	J (mm)	Machined head	Weight (gr.)
STUD	708008	110	M16	M12	25	Y	215
	708003	110	M16	M16	-	Y	285
	708004	130	M20	M20	-	N	475
	708001	100	M12	M12	-	Y	174



Shim

Type	Code	A (mm)	C (mm)	D (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	Weight (kg)
SMALL	136301	120	60	100	14	11	3	14	11	-
MEDIUM	136302	183	75	140	30	13	4	13	22	-
LARGE	136303	228	112	182	34	18	5	18	26	-

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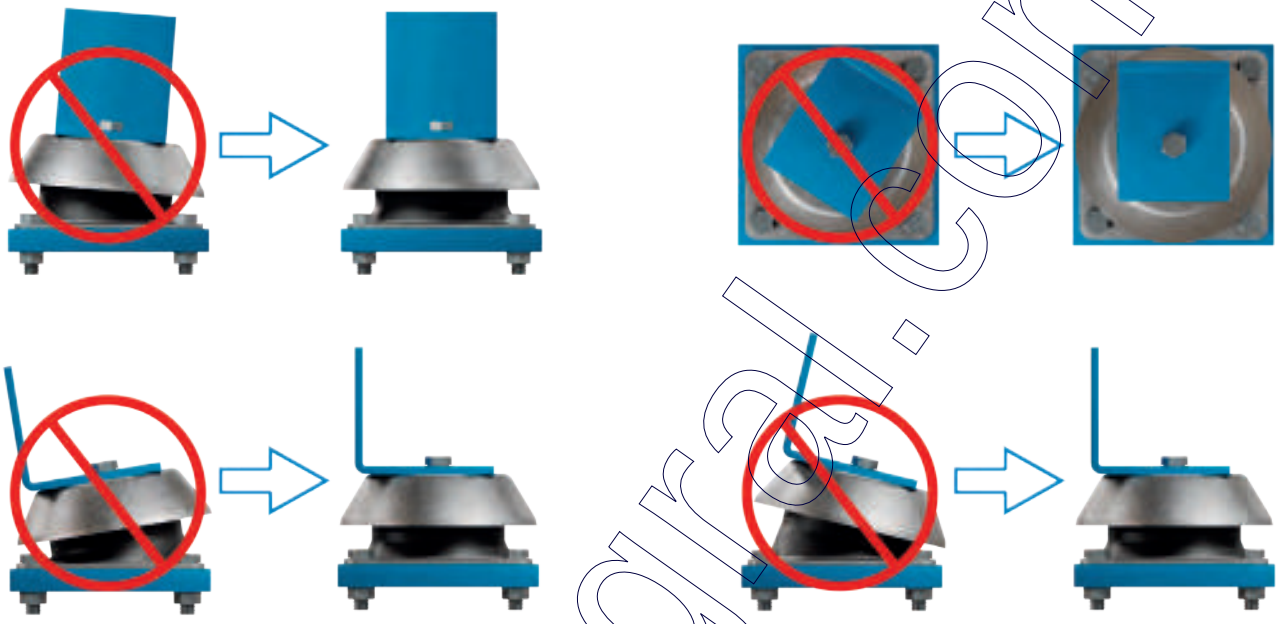
INSTALLATION PRINCIPLES

RECOMMENDATIONS FOR HOOD MOUNTS

The hood mounts should be be installed between two parallel and perfectly flat surfaces. Mounts operating tilted or twisted do not work properly. This may be due to incorrect alignment, tolerances in the building of the chassis or over-tightened torque during the installation of the Antivibration mounts.

This applies to our marine-type, BSB, BRB or Mecanodamp mounts.

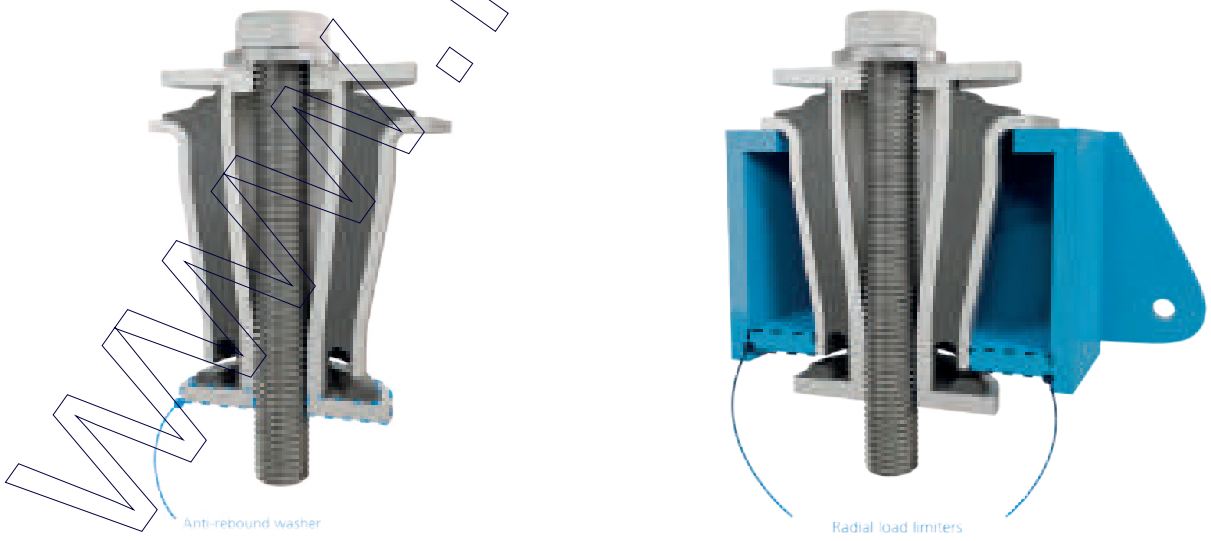


RECOMMENDATIONS FOR THE CONICAL MOUNTS

The conical mounts should always use the washers indicated for each model.

Similarly, we recommend the use of lateral limiters for cases with high loads or radial impact.

This applies to our AT, SCB, SCH or Mecanocaucho® mounts.



RECOMMENDATIONS FOR THE DSD AND DRD MOUNTS

Although it is not absolutely necessary, the AMC MECANOCAUCHO® hoods should be used in the DSD and DRD hoods. This hood distributes the load evenly in the event of overloads, and also provides protection from possible oil splashes.

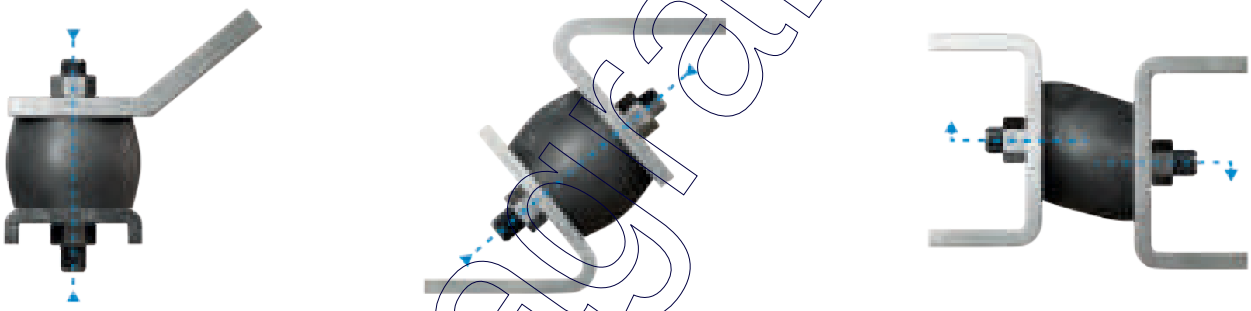
Care should be taken to make sure that the protective hood has the same or a greater diameter than that of the diameter of the rubber element.

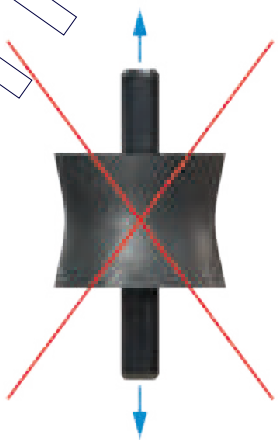
We have a standard range of Mecanocaucho® protection hoods. Check them out.

RECOMMENDATIONS FOR THE CYLINDRICAL MOUNTS

The cylindrical mounts should never work at traction. They should be used on a compression basis. To obtain greater deflection, use them at shear or shear /compression, although the maximum loads indicated in our catalogue for shear use should never be exceeded.

This applies to our bobbins, diabolo, trapezoidal or annular mounts.





RECOMMENDATIONS FOR MACHINES THAT REQUIRE ALIGNMENT

When an alignment is required between different mechanical elements of the machine, the creeping effect should be taken into account. The increased deformation produced by the creep of the elastomer leads to a "misalignment" between suspended and rigid elements, particularly during the first 48 hours of static load in the antivibration mounts.

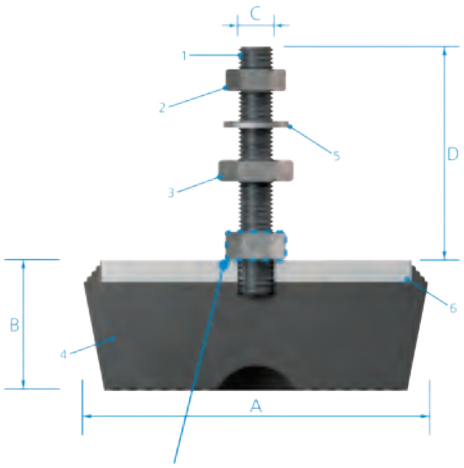
Alignment should therefore be checked 48 hours after the installation of the machine.

If this is not possible contact AMC's technical department and they will help you to ascertain the optimal alignment of your machine.

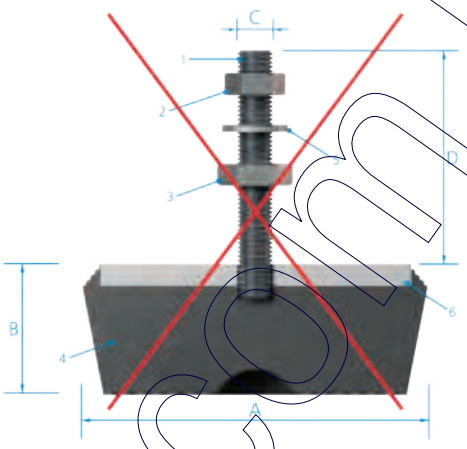
RECOMMENDATIONS FOR AMC MECANOCAUCHO® MACHINE MOUNTS WITHOUT ADJUSTABLE HOOD

On installing one of our AMC MECANOCAUCHO® machine mounts without adjustable hood, great care should be taken to ensure that the load of the machine does not rest on the screw, but on the hood.

This applies to our AMC MECANOCAUCHO® SV, SM and low SV series mounts.



This nut spreads the load on the bell and avoids tensioning the below welded insert.



RECOMMENDATIONS FOR TORQUE TIGHTENING FOR THE BRB, BSB, MD AND MARINE MOUNTS

Before installing, make sure that the support surfaces are sufficiently rigid flat and totally parallel. The main fixing screw should be tightened according to the torques recommended in the following chart:

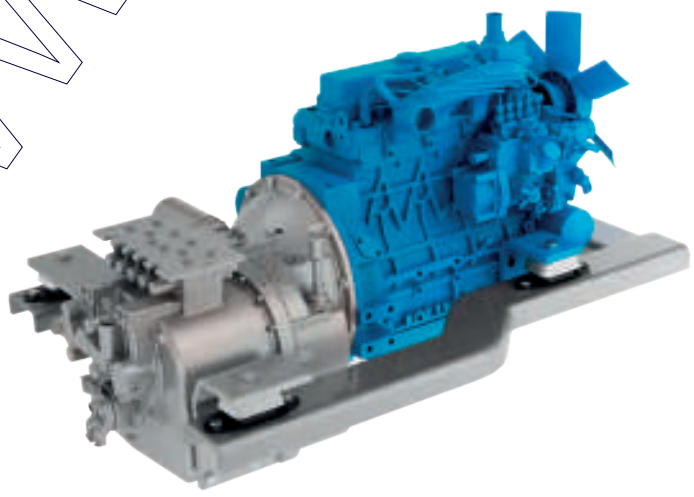
	M8	M10	M12	M16	M20	M24
Tightening torque Nm	16	32	55	125	190	285

RECOMMENDATIONS FOR THE INSTALLATION OF ANTIVIBRATION MOUNTS

The position of the antivibration mounts determines the vibration modes of the suspended ensemble. An even load distribution over all the mounts is advisable. One easy way of obtaining this is by installing the antivibration mounts equidistant from the CDG of the ensemble.

Mounts installed at the height of the crankshaft provide more stable suspensions and avoid over-movement of the suspended ensemble, particularly in mobile or moving applications.

The external connections to the suspended ensemble, such as cables, exhaust, hydraulic pipes, etc., must be elastic enough to prevent vibrations from being transmitted to the chassis through them.



VIBRATION ISOLATOR PRO BLUETOOTH ACCELEROMETER

DESCRIPTION

AMC MECANOCAUCHO® Bluetooth Accelerometer has been developed to work in conjunction with the AMC MECANOCAUCHO® free of cost app Vibration Isolator Pro for Android and iOS.

This equipment can provide an immediate vibratory analysis in the frequency domain, by connecting it to an Android or iOS mobile phone or tablet.

The application will guide the user along several steps in order to complete the analysis in an easy way.

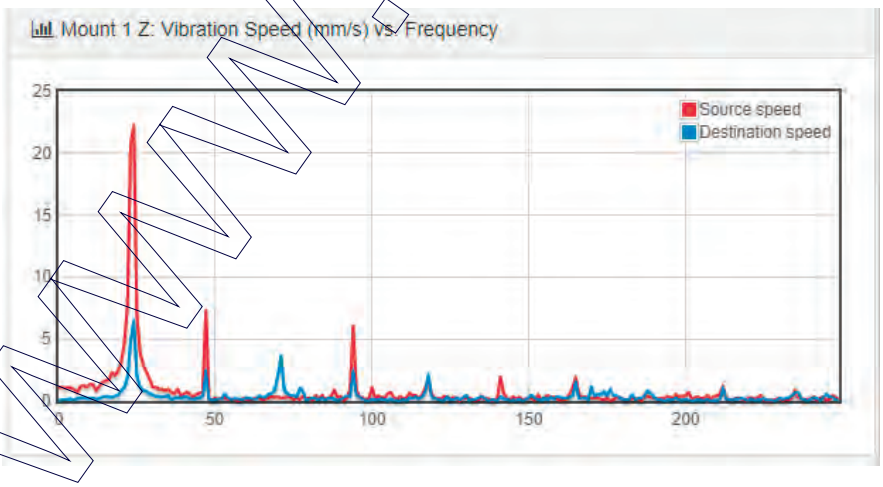
ADVANTAGES

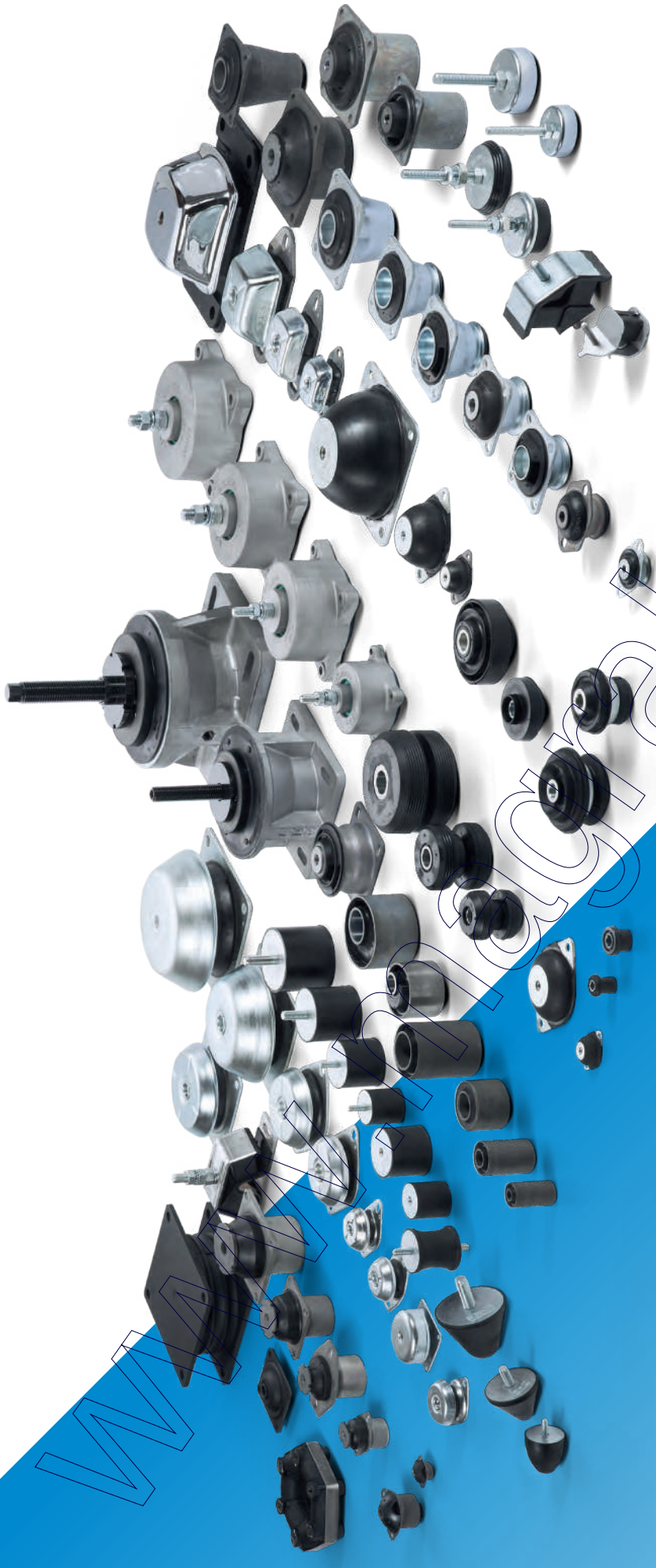
- Compact design
- 3 axis accelerometer
- DC to 500Hz useful bandwith
- Low noise
- iOS and Android compatible

QUICK GUIDE

SPECIFICATIONS

Acceleration Range	± 10g
Lower frequency limit	0Hz
Upper frequency limit	500Hz
Sensor technology	MEMS
Output Units	mm/s
Sampling rate	1024 kHz
Dimension	41 x 33 x 23 mm
Weigth	48 g
Housing material	Aluminium, plastic
Operating temperature range	-20 to 60ºC
Residual Noise density	80 µg/√Hz rms
Sensitivity	19 µg/LSB
ADC resolution	20 Bits
Cross Axis sensitivity	1,50%
Maximum supported acc.	500g
Wireless protocol	Bluetooth LE 4.2





The following graph shows the expected vibration isolation performance when two key factors are known:

FREQUENCY OF EXCITATION

This is the problematic frequency which is required to be isolated. For example the vibration frequency produced from a diesel engine.

NATURAL FREQUENCY

This is the frequency at which a system will naturally oscillate at if subjected to an external force.

This frequency is dependant on the mass of the suspended element and the stiffness of the mounting points. If in doubt an AMC engineer is available to assist with calculations to determine the natural frequency of your installation.