



AMC
MECANOCAUCHO



Vibrabsorber
+ **sylomer**[®] by getzner
General Catalogue



AMC
MECANOCAUCHO



48 h.



24 h.

72 h.

24 h.

USA DELIVERY



4 WEEKS

San Sebastián
Asteasu



Our stock is at your service.

50 YEARS OF EXPERIENCE ENDORSE US

Since 1969 **AMC MECANOCAUCHO®**, has pioneered the manufacture and design of products for the attenuation of vibrations and noise.

Factory 1 in Asteasu.



Factory 2 in Asteasu.



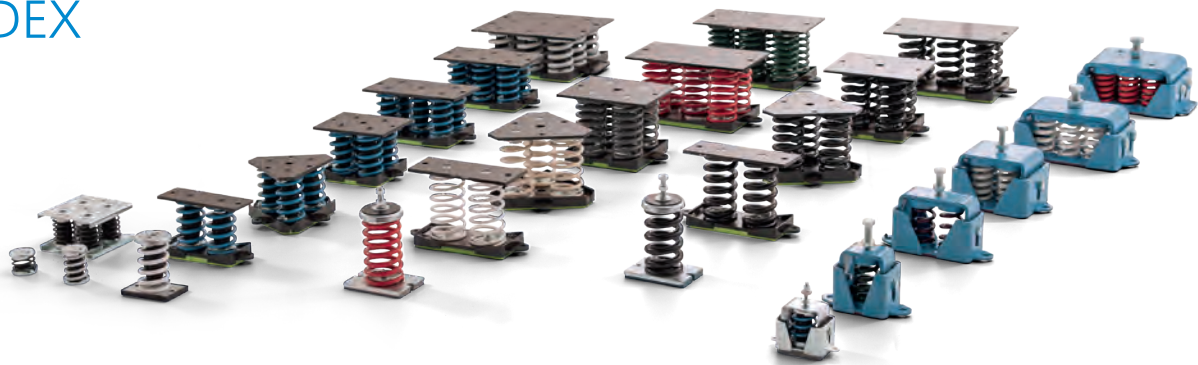
1969



1995



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AREAS OF APPLICATION

Our products are used in sectors such as:

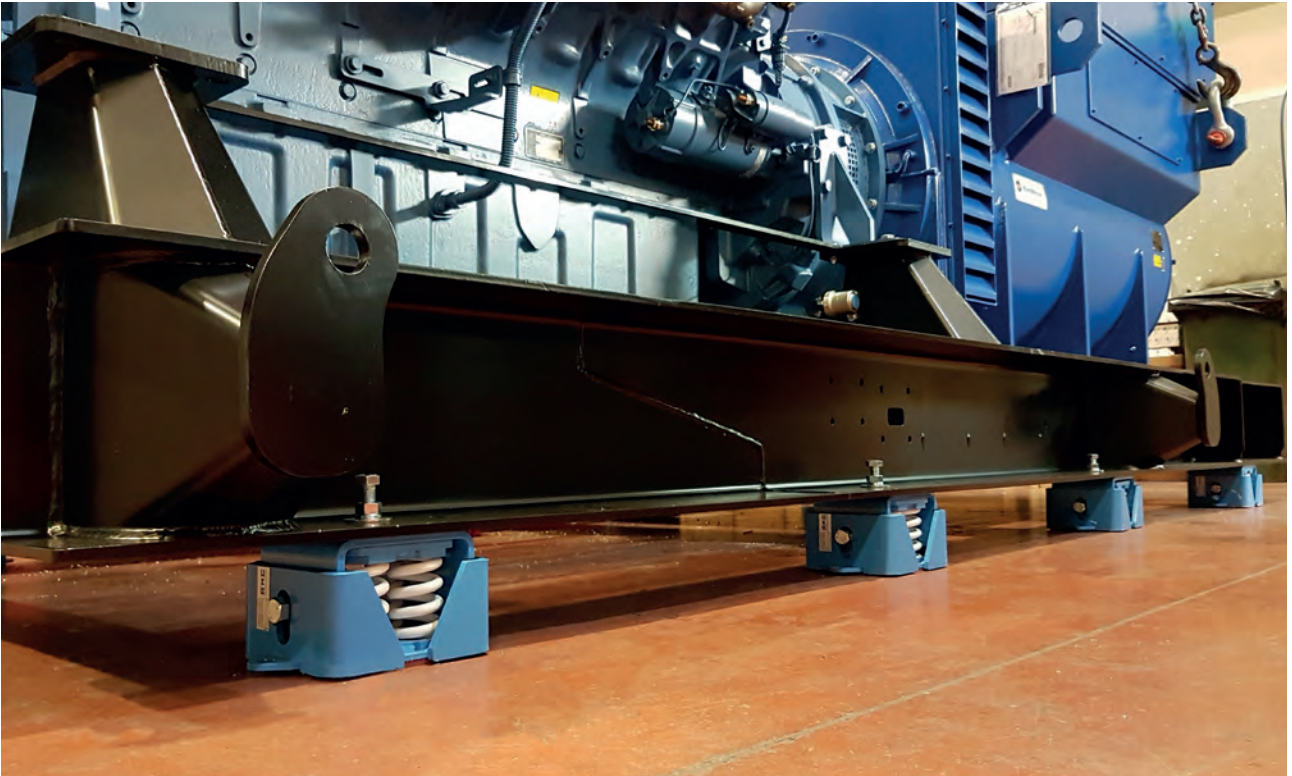
- Generation of electrical energy.
- Air compressors and Blowers.
- Pumps and Pumping equipment.
- Industrial vehicles.
- Machine Tools.
- Marine propulsion and auxiliary equipment.
- Agricultural and construction equipment machinery.
- Acoustic isolation of premises.



Compressor insulated with VIBRABSORBER +Sylomer®



Generator set insulated with VIBRABSORBER+Sylomer®



Generator set insulated with VIBRABSORBER+Sylomer®



Ventilation system insulated with VIBRABSORBER

QUALITY COMMITMENT

The products commercialised by AMC-MECANOCAUCHO® are all made in-house.

The stiffness and levels of mechanical fixations of all these products have been controlled so that they may be identified as "AMC MECANOCAUCHO®" products, whereby they can be traced. AMC MECANOCAUCHO® is officially approved by the NATO under the ID no. NCAGE 0230 B-compliant supplier.

ISO 9001:2014



ISO 14001: 2014



Marine type approval



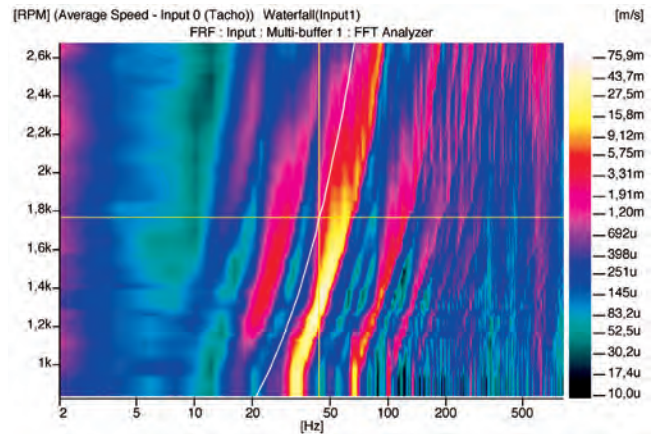
NATO certificate



THE SOLUTION

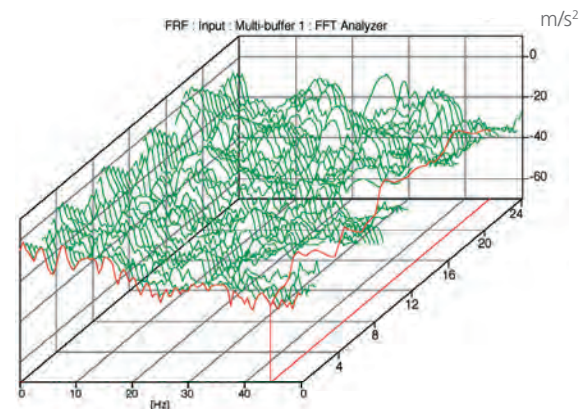
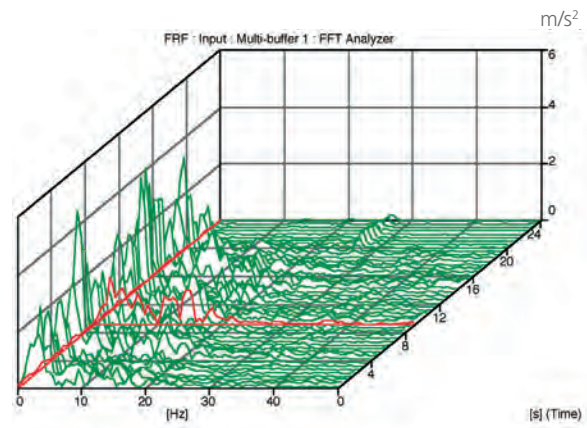
All machinery which by virtue of its design, has reciprocating or rotating parts, creates vibration to some degree through the imbalance of the moving parts.

This vibration produced by a machine leads to different problems, such as a reduction in the machine's useful life through part wear, plus the transmission of this vibration to other non-insulated adjacent structures, giving rise to problems of noise and vibration transmission.



FFT analysis of orders for a diesel engine

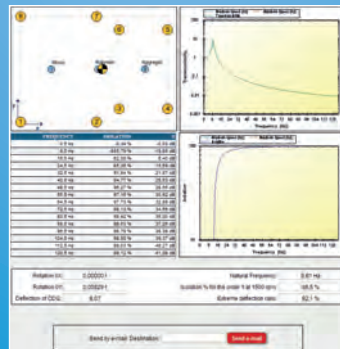
For over 45 years, AMC MECANOCAUCHO® has been developing the AMC MECANOCAUCHO® range of rubber-metal anti-vibration supports which can solve problems like the ones described above in all types of machinery, mobile or fixed. Thus protecting people and the environment from harmful effects of noise and vibration.



3D graphics of the vertical acceleration of a radiator

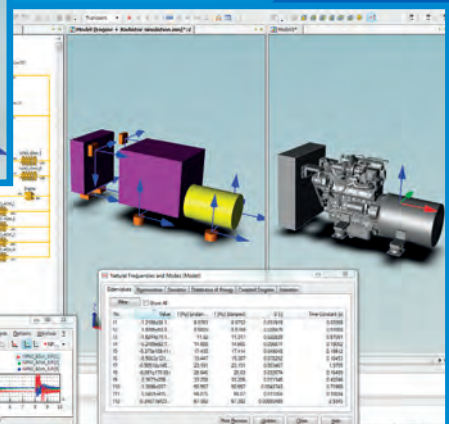
ENGINEERING

1. Calculation



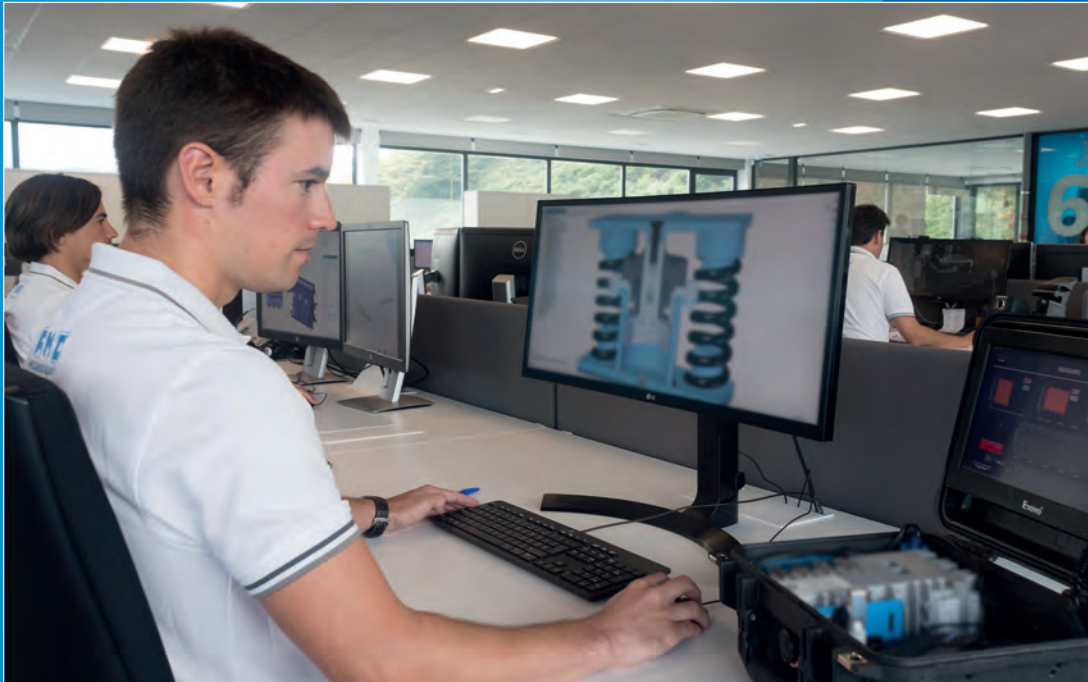
AMC MECANOCAUCHO® calculates anti-vibration solutions by taking into account data such as weight, mount positions, type of machine, Center of Gravity, frequency of excitation, etc...

One degree of freedom calculation



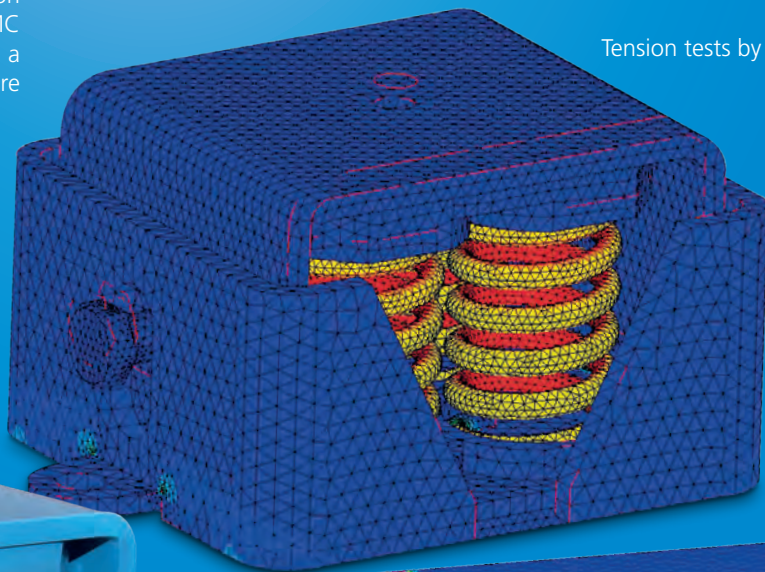
Anti-vibration calculation with more than one degree of freedom.

2. Design

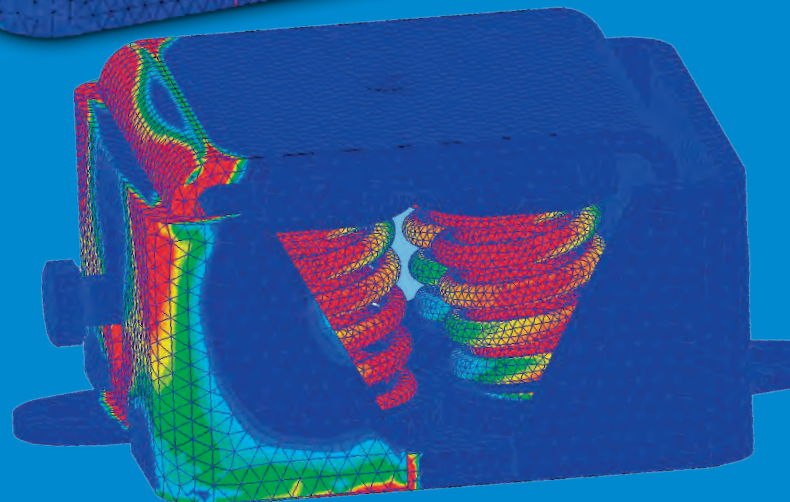


After studying client specific needs for the application and the isolation performance required, AMC MECANOCAUCHO® can produce a new design if standard products are not suitable.

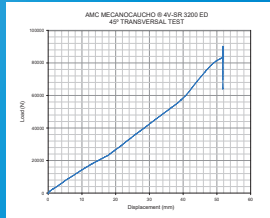
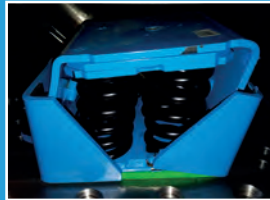
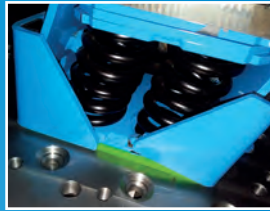
Tension tests by non linear FEM.



3D modelling of products

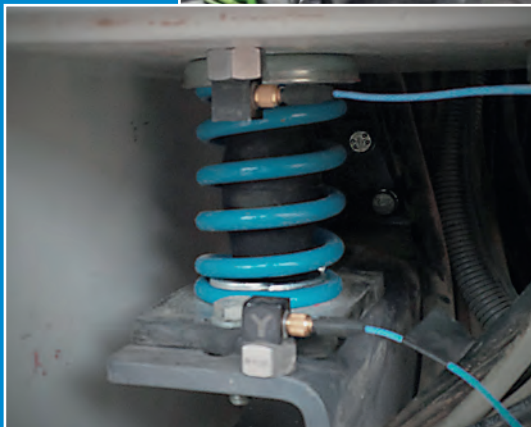


3. Test and dynamic characterisation



AMC MECANOCAUCHO® can offer customers a wealth of experience and know how in measuring noise and vibration to effect optimun solutions to those problems.

4. Measurements



AMC MECANOCAUCHO® provides its customers with all its experience and know-how in measuring vibrations and noise in the field so as to reduce machine-produced emissions of noise and vibrations.



AMC
ENGINEERING

THEORY OF VIBRATION ISOLATION

1.- ABC AT A GLANCE

MASS SPRING SYSTEM

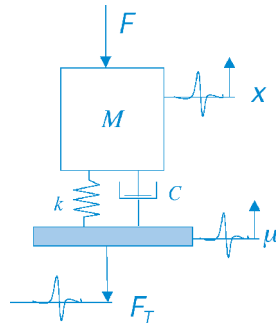
A mass spring system may be represented by a mass "M", excited by a force "F" and supported on an elastic stiffness element "K" with a dampening factor "C".

The frequency of the mass spring system is equal to:

$$f_o = \frac{1}{2 \cdot \pi} \sqrt{\frac{k}{M}}$$

figure 3

K = N/m
M = in Kg
Fo in Hz
C in Ns/m



The effectiveness of the suspension may be measured by transmissibility, i.e. by the force which is transmitted by the machine to the ground or floor. It is defined as the ratio between the force transmitted to the ground, FOT, and the original force produced by the vibration FO.

Another practical term is often used to describe the efficacy of an anti-vibration mount, namely the degree of insulation, which is:

Transmissibility equation: $E = (1 - T) \times 100\%$

Taking the following parameters into account:

Excitation $x = x_o \sin(\omega t + \vartheta)$
 $F = F_{To} \sin(\omega t + \vartheta)$

Response $\mu = \mu_o \sin \omega t$
 $F = F_o \sin \omega t$

Own Pulsation: $\omega_o = \sqrt{\frac{k}{M}}$ for $C \cong 0$

and natural frequency of $f_o = \frac{1}{2 \cdot \pi} \sqrt{\frac{k}{M}}$

The damping parameters are: $C_c = 2 \cdot \sqrt{kM}$

Where Cc is the critical damping and $\xi = \frac{C}{C_c}$ the damping coefficient.

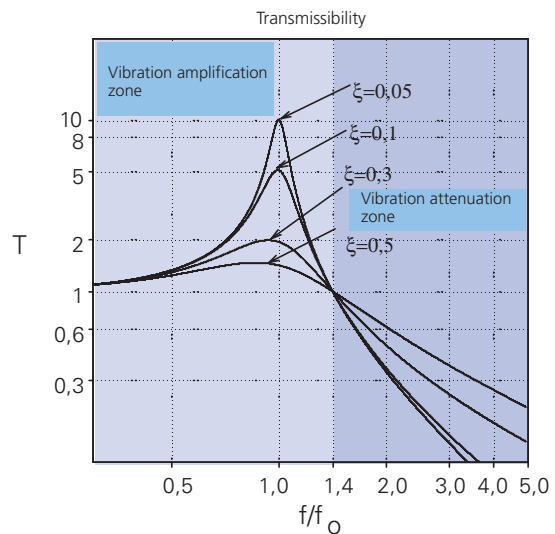
For this system we obtain a transmissibility T and a magnification factor A:

$$T = \frac{x_o}{\mu_o} = \frac{F_{To}}{F_o} = \sqrt{\frac{1 + \left(2 \cdot \xi \cdot \frac{\omega}{\omega_o}\right)^2}{\left(1 - \frac{\omega^2}{\omega_o^2}\right)^2 + \left(2 \cdot \xi \cdot \frac{\omega}{\omega_o}\right)^2}}$$

For the case of active $T = \frac{F_{To}}{F_o}$ and

passive isolations, we will have to $T = \frac{x_o}{\mu_o}$

Figure 5 represents the transmissibility curve of the schematic mass spring system of figure 3.



Examining this curve allows us to reach basic conclusions for an effective isolation.

If the frequency of excitation is $\sqrt{2}$ times less the natural frequency, transmissibility is greater than one, then the force transmitted is greater than the excitation force, there is magnification of the vibrations. When we work in this area, the existing damping in the system is important. The greater the latter, the smaller the magnification of the vibrations will be.

If the frequency of excitation is $\sqrt{2}$ times greater than the natural frequency, transmissibility is less than one, or in other words the force transmitted is less than the force originated in the system, then we are in the damping area.

In order to achieve the greatest isolation, the lowest possible natural frequencies should be sought. There are two ways of doing this:

- By increasing the system mass.
- By reducing the stiffness of the anti-vibration mount.

To increase the efficacy of the isolation in the damping area, it is advisable to have low damping, although weak damping generates greater displacement when passing through the resonance, it is advisable to use a damping coefficient t so that passage through the resonance does not give rise to inadmissible displacement for the machine.

STATIC AND DYNAMIC STIFFNESS

All elastomers suffer dynamic stiffening but metallic springs have a very low dynamic stiffening due to the low internal friction of the metals. Therefore we can consider that the springs have identical static and dynamic stiffness.

DAMPING

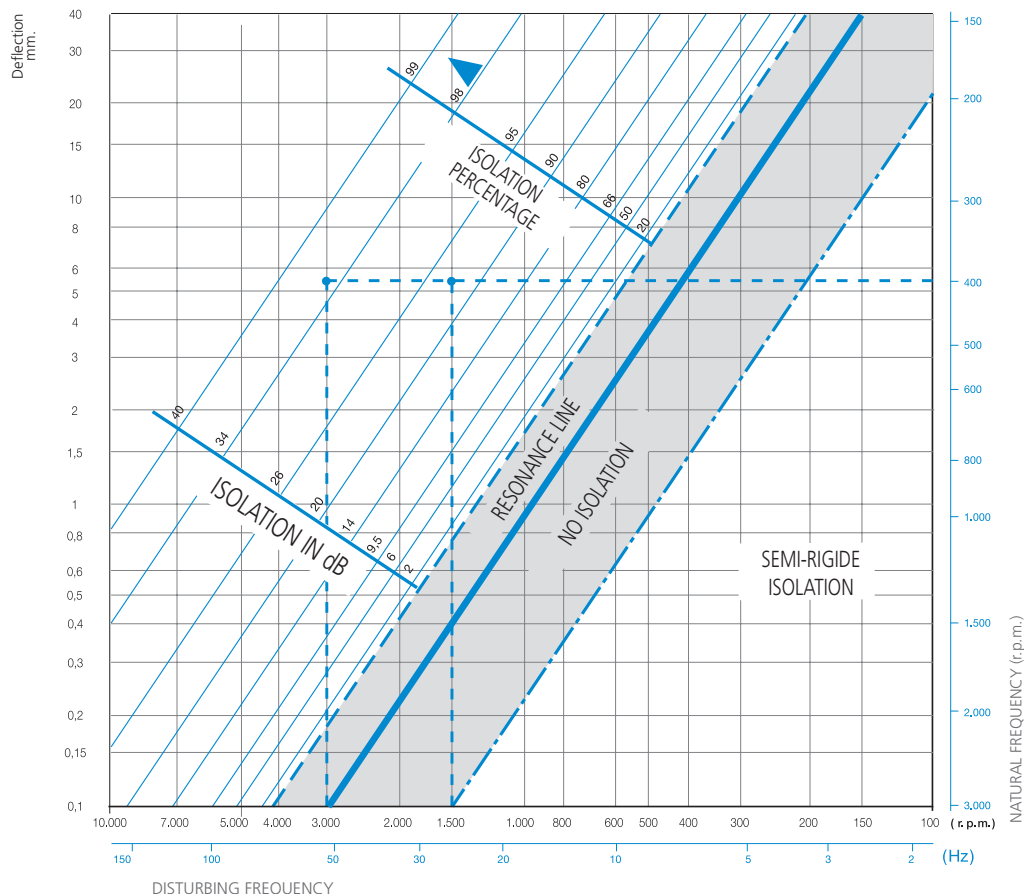
The metallic springs have very low damping. As we have mentioned previously, the metal spring coils, do not show any internal friction and therefore there is no energy dissipation through this phenomenon.

Dynamic laboratory tests have shown in practice that the damping for this kind of mounts is almost null and this is the reason why these mounts have been combined with viscous dampers for applications where more damping is demanded. For example genset suspensions.

CREEPING AND LONG-TERM BEHAVIOUR

The spring mounts do not have the creeping and continuous increase of deflection all elastomers have, but spring coils have also certain relaxation that depend on the applied load and the temperature. The higher the load and temperature are, the higher is the relaxation. Temperatures above 80°C and high loads, may cause a small loss of height in the spring. This set is always lower than the usual values of elastomers.

VIBRATION ISOLATION GRAPH



THEORY OF VIBRATION ISOLATION

1.- DYNAMIC TESTING MACHINE

Dynamic stiffness can only be established by measurement on a dynamic test bench. Similarly, the damping coefficients of compounds are further values that can be measured with this type of machines.

One concept that must be taken into account when designing an anti-vibration mount is its durability. A dynamic testing machine allows us to conduct fatigue tests that reproduce the real working conditions of the part so that its useful life can thus be predicted.

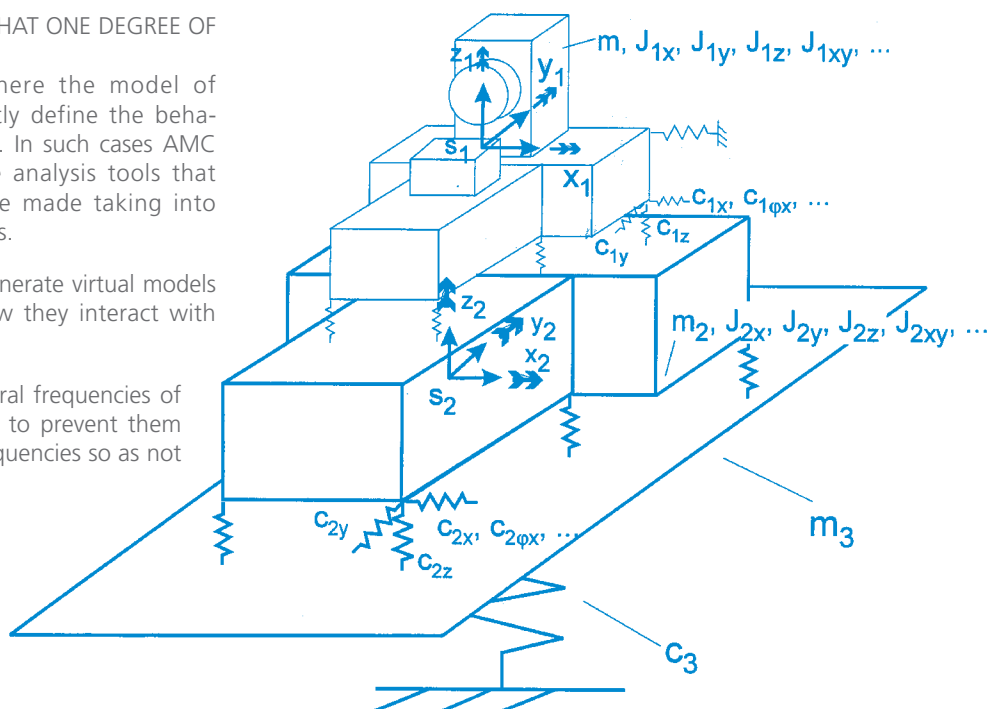


2.- ANALYSIS OF SYSTEMS OF MORE THAN ONE DEGREE OF FREEDOM

In actual fact, there are cases where the model of 1 degree of freedom cannot correctly define the behaviour of the equipment to be isolated. In such cases AMC MECANOCAUCHO® engineers have analysis tools that enable more elaborate models to be made taking into account the 6 Degrees of Freedom rules.

The latest computing tools can also generate virtual models of solid rigid multiples and study how they interact with each other and with the environment.

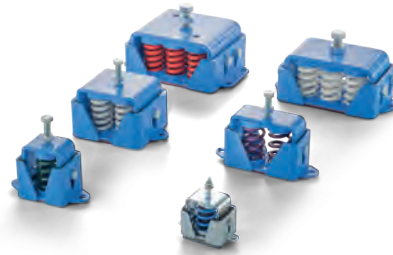
As a result, we can ascertain the natural frequencies of the system which are really important to prevent them from coinciding with the excitation frequencies so as not to have resonance problems.



AMC ANTI-SEISMIC SUPPORTS

These spring mounts incorporate an ANTISEISMIC device to protect the spring from earthquakes.

Natural Frequency 5 to 6 Hz



			Type	Spring color	Weight (kg)	Max. Load (kg)	Code	K (N/mm)
			ANTI-SEISMIC MINI	BLACK	0	8	21278	3,3
			BLACK	1,12	15	21270	8,5	
			BLACK	1,12	25	21271	12	
			BLUE	1,13	50	21272	28	
			GREY	1,15	75	21273	38	
			BEIGE	1,17	100	21274	52	
			WHITE	1,2	125	21275	58	
			BLACK	1,23	150	21276	79	
			RED	1,12	250	21277	130	
			ANTI-SEISMIC MINI + SYLOMER	BLACK	1	8	21224	3,3
			BLACK	1,12	15	21222	8,5	
			BLACK	1,12	25	21261	12	
			BLUE	1,13	50	21262	28	
			GREY	1,15	75	21263	38	
			BEIGE	1,17	100	21264	52	
			WHITE	1,2	125	21265	58	
			BLACK	1,23	150	21266	79	
			RED	1,12	250	21267	130	

			Type	No. Springs	Spring color	Deflection mm	Weight (kg)	Max. Load (kg)	Code	K (N/mm)
			1 AMC ANTI-SEISMIC	1	YELLOW	22	3,45	200	20410	92
			1	PURPLE	22	3,155	305	20409	146	
			1	GREEN	22	3,204	405	20381	166	
			1	GREY	22	3,318	540	20382	255	
			1	WHITE	22	3,248	612	20383	278	
			1	RED	22	3,414	803	20384	392	
			1 AMC ANTI-SEISMIC + SYLOMER	1	YELLOW	22	3,191	200	20338	92
			1	PURPLE	22	3,191	305	20413	146	
			1	GREEN	22	3,686	405	20377	166	
			1	GREY	22	3,284	540	20378	255	
			1	WHITE	22	3,284	612	20379	278	
			1	RED	22	3,449	803	20380	392	
			2 AMC ANTI-SEISMIC	2	YELLOW	22	4,819	400	20529	185
			2	PURPLE	22	4,819	610	20494	291	
			2	GREEN	22	4,919	810	20496	331	
			2	GREY	22	5,011	1080	20497	509	
			2	WHITE	22	5,142	1224	20498	567	
			2	RED	22	5,337	1606	20500	784	
			2 AMC ANTI-SEISMIC + SYLOMER	2	YELLOW	22	4,869	400	20528	185
			2	PURPLE	22	4,869	610	20480	291	
			2	GREEN	22	4,97	810	20487	331	
			2	GREY	22	5,192	1080	20488	509	
			2	WHITE	22	5,06	1224	20489	567	
			2	RED	22	5,386	1606	20490	784	
			4 AMC ANTI-SEISMIC	4	YELLOW	22	10,75	800	20679	369
			4	PURPLE	22	10,75	1220	20700	582	
			4	GREEN	22	10,894	1620	20696	662	
			4	GREY	22	10,75	2160	20697	1018	
			4	WHITE	22	10,965	2448	20698	1134	
			4	RED	22	11,69	3212	20699	1567	
			4 AMC ANTI-SEISMIC + SYLOMER	4	YELLOW	22	10,54	800	20680	369
			4	PURPLE	22	10,54	1220	20686	582	
			4	GREEN	22	10,84	1620	20687	662	
			4	GREY	22	10,689	2160	20688	1018	
			4	WHITE	22	10,689	2448	20689	1134	
			4	RED	22	11,636	3212	20690	1567	

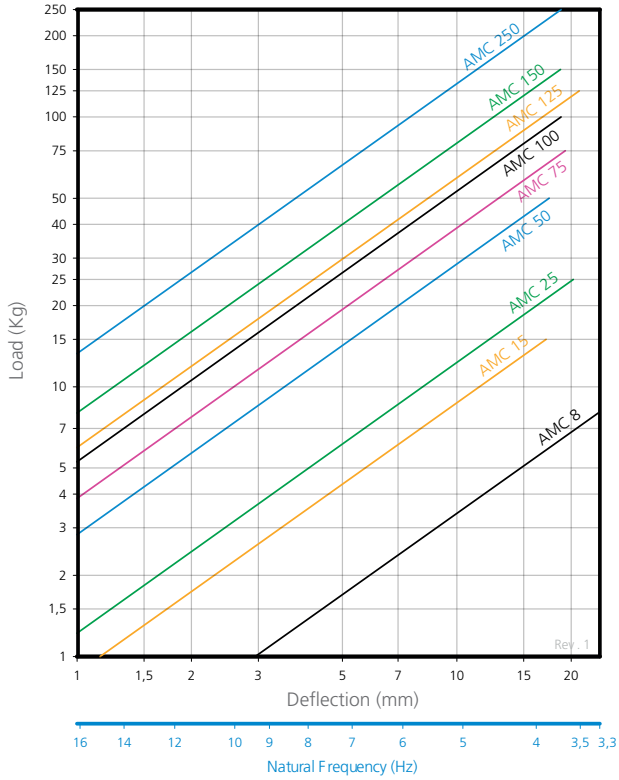


	Type	No. Springs	Spring color	Deflection mm	Weight (kg)	Max. Load (kg)	Code	K (N/mm)
	6 AMC ANTI-SEISMIC	6	YELLOW	22	15,45	1200	20749	554
		6	PURPLE	22	15,45	1830	20761	874
		6	GREEN	22	15,45	2430	20762	994
		6	GREY	22	15,45	3240	20763	1528
		6	WHITE	22	15,521	3672	20764	1702
		6	RED	22	16,553	4818	20765	2351
	6 AMC ANTI-SEISMIC + SYLOMER	6	YELLOW	22	14,829	1200	20750	554
		6	PURPLE	22	14,829	1830	20766	874
		6	GREEN	22	15,279	2430	20767	994
		6	GREY	22	15,957	3240	20768	1528
		6	WHITE	22	15	3672	20769	1702
		6	RED	22	16,473	4818	20770	2351
	9 AMC ANTI-SEISMIC	9	YELLOW	22	21,598	1800	20959	831
		9	PURPLE	22	21,598	2745	20961	1310
		9	GREEN	22	22,273	3645	20962	1490
		9	GREY	22	23,29	4860	20963	2291
		9	WHITE	22	22,516	5508	20964	2552
		9	RED	22	24,064	7227	20965	3526
	9 AMC ANTI-SEISMIC + SYLOMER	9	YELLOW	22	21,483	1800	20990	831
		9	PURPLE	22	21,483	2745	20992	1310
		9	GREEN	22	22,158	3645	20993	1490
		9	GREY	22	23,175	4860	20994	2291
		9	WHITE	22	22,401	5508	20995	2552
		9	RED	22	23,949	7227	20996	3526
	10 AMC ANTI-SEISMIC	10	YELLOW	22	24,228	2000	20849	923
		10	PURPLE	22	24,228	3050	20894	1456
		10	GREEN	22	24,978	4050	20895	1656
		10	GREY	22	26,108	5400	20896	2546
		10	WHITE	22	25,248	6120	20897	2836
		10	RED	22	26,968	8030	20898	3918
	10 AMC ANTI-SEISMIC + SYLOMER	10	YELLOW	22	24,089	2000	20850	923
		10	PURPLE	22	24,089	3050	20852	1456
		10	GREEN	22	24,839	4050	20853	1656
		10	GREY	22	25,969	5400	20854	2546
		10	WHITE	22	24,766	6120	20855	2836
		10	RED	22	26,829	8030	20856	3918

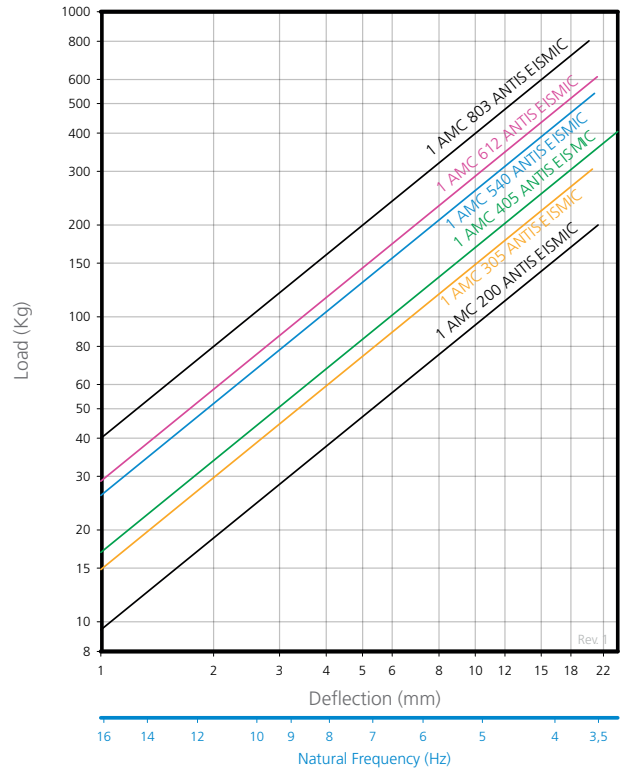
	Type	SUMMARY	Code	Weight (kg)
	SNUBBER 4 ANTI-SEISMIC	Dimensions A, B, C and D could vary according to the selected mount and the characteristics of the frame	22000	0

AMC ANTI-SEISMIC SUPPORTS. ELASTIC PROPERTIES

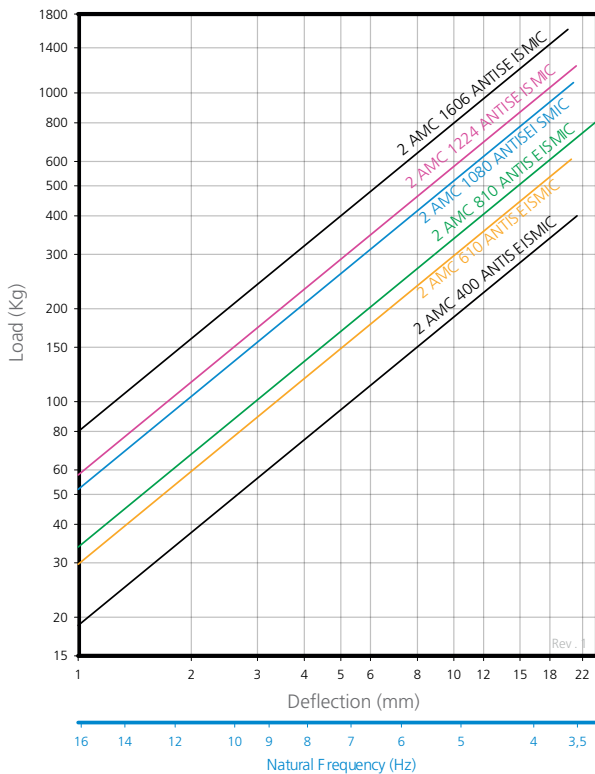
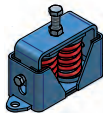
LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® Antiseismic mini



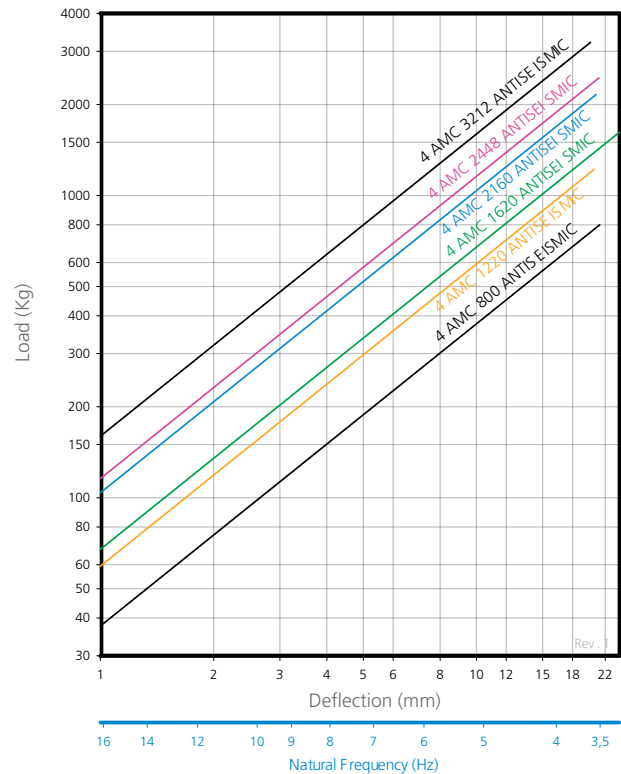
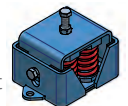
LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 1 AMC Antiseismic mount



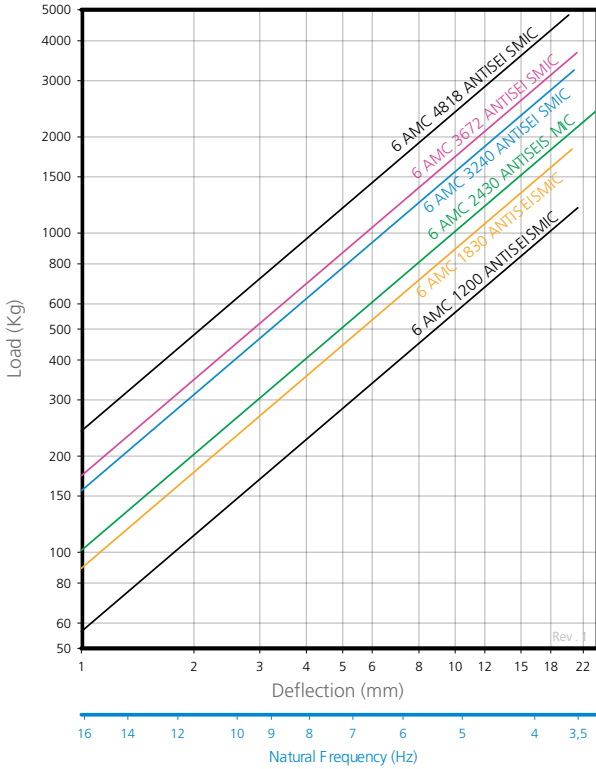
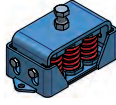
LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 2 AMC Antiseismic mount



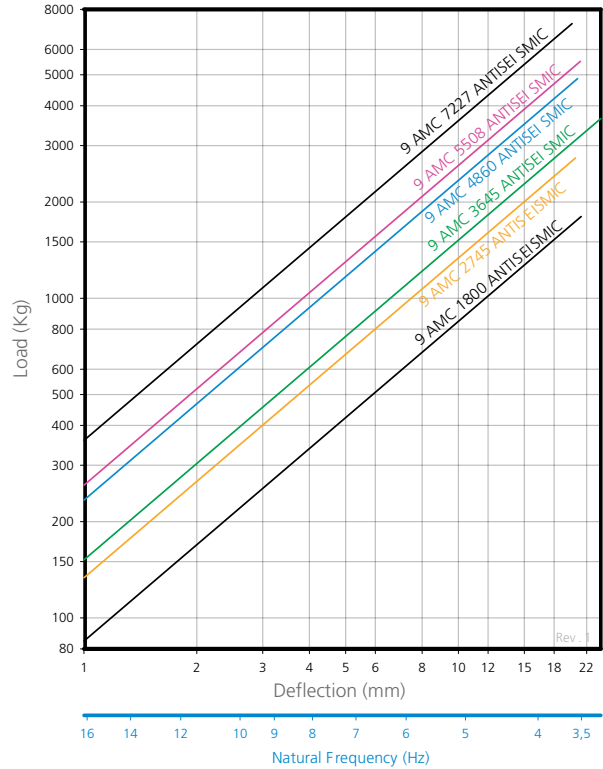
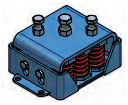
LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 4 AMC Antiseismic mount



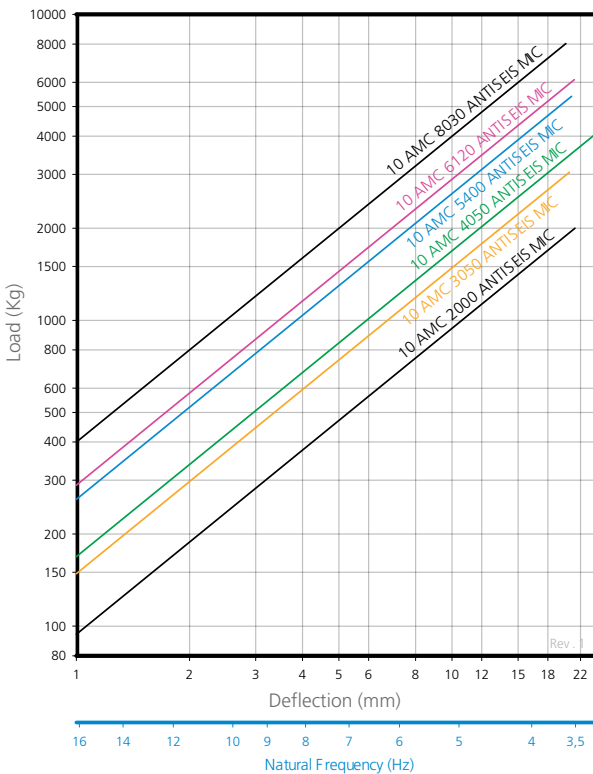
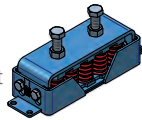
LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 6 AMC Antiseismic mount



LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 9 AMC Antiseismic mount



LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 10 AMC Antiseismic mount



VSH ANTI-SEISMIC SUPPORTS

This range of mounts comprises:

- A spring high elasticity and very low natural frequency
- An incorporated levelling system
- A non-slip rubber base
- A spare Sylomer to isolate mid and high frequencies comes standard

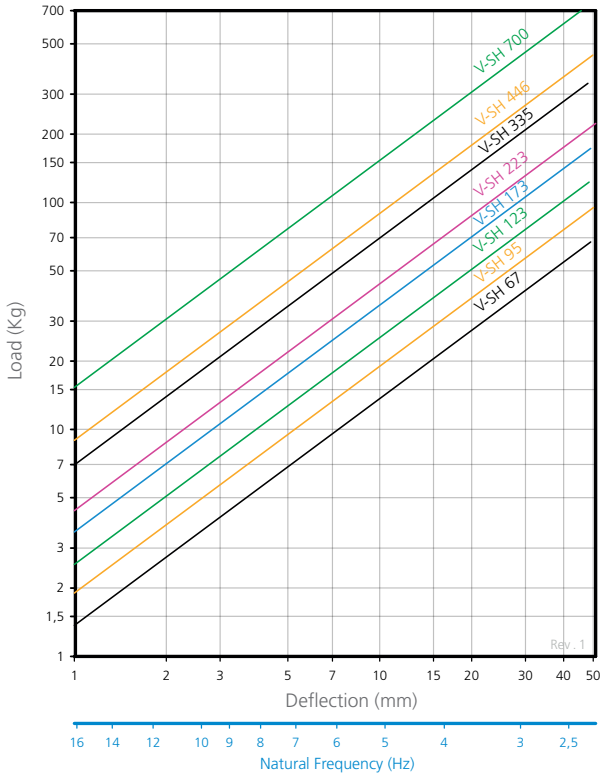
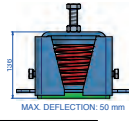


Natural Frequency 3 to 5 Hz

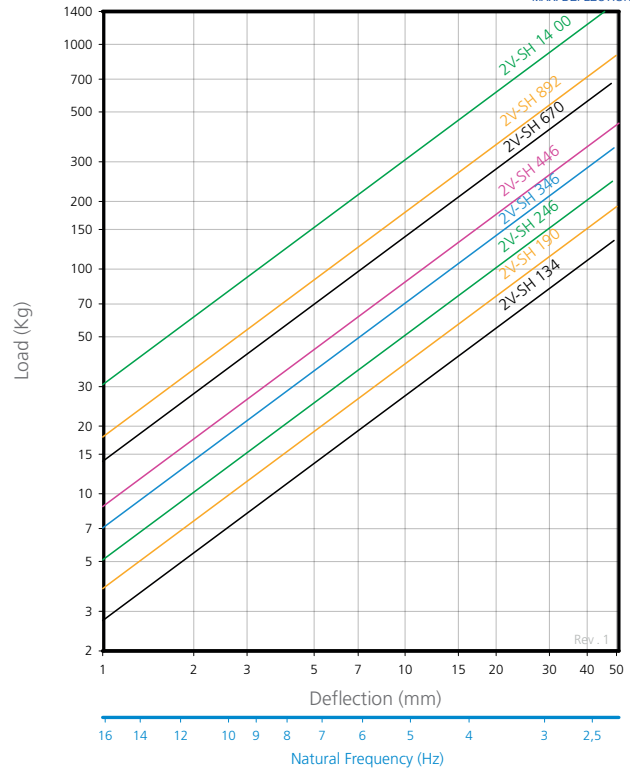
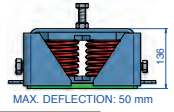
	Type	Spring color	Load (kg)	Weight (kg)	Code	K (N/mm)	
	1V-SH-67 ANTI SEISMIC + SYLOMER	BLUE	67	5,759	20653	13	
	1V-SH-95 ANTI SEISMIC + SYLOMER	WHITE	95	5,816	20654	19	
	1V-SH-123 ANTI SEISMIC + SYLOMER	BLACK	123	5,84	20655	25	
	1V-SH-173 ANTI SEISMIC + SYLOMER	BEIGE	173	5,93	20656	35	
	1V-SH-223 ANTI SEISMIC + SYLOMER	RED	223	6,301	20657	43	
	1V-SH-335 ANTI SEISMIC + SYLOMER	GREY	335	6,502	20658	68	
	1V-SH-446 ANTI SEISMIC + SYLOMER	GREEN	446	6,768	20659	88	
	1V-SH-700 ANTI SEISMIC + SYLOMER	BROWN	700	6,768	20661	150	
		2V-SH-134 ANTI SEISMIC + SYLOMER	BLUE	134	10,423	20587	27
		2V-SH-190 ANTI SEISMIC + SYLOMER	WHITE	190	10,537	20588	37
2V-SH-246 ANTI SEISMIC + SYLOMER		BLACK	246	10,648	20589	50	
2V-SH-346 ANTI SEISMIC + SYLOMER		BEIGE	346	10,648	20590	69	
2V-SH-446 ANTI SEISMIC + SYLOMER		RED	446	11,507	20591	86	
2V-SH-670 ANTI SEISMIC + SYLOMER		GREY	670	11,909	20592	137	
2V-SH-892 ANTI SEISMIC + SYLOMER		GREEN	892	12,441	20593	176	
2V-SH-1400 ANTI SEISMIC + SYLOMER		BROWN	1400	12,441	20594	301	
		4V-SH-268 ANTI SEISMIC + SYLOMER	BLUE	268	19,909	20752	54
		4V-SH-380 ANTI SEISMIC + SYLOMER	WHITE	380	20,137	20753	74
	4V-SH-492 ANTI SEISMIC + SYLOMER	BLACK	492	20,233	20754	100	
	4V-SH-692 ANTI SEISMIC + SYLOMER	BEIGE	692	20,593	20755	138	
	4V-SH-892 ANTI SEISMIC + SYLOMER	RED	892	22,077	20756	172	
	4V-SH-1340 ANTI SEISMIC + SYLOMER	GREY	1340	22,881	20757	274	
	4V-SH-1784 ANTI SEISMIC + SYLOMER	GREEN	1784	23,945	20758	351	
	4V-SH-2800 ANTI SEISMIC + SYLOMER	BROWN	2800	29	20759	601	
		6V-SH-402 ANTI SEISMIC + SYLOMER	BLUE	402	30,076	20861	80
		6V-SH-570 ANTI SEISMIC + SYLOMER	WHITE	570	30,418	20862	112
6V-SH-738 ANTI SEISMIC + SYLOMER		BLACK	738	30,562	20863	149	
6V-SH-1038 ANTI SEISMIC + SYLOMER		BEIGE	1038	31,102	20864	208	
6V-SH-1338 ANTI SEISMIC + SYLOMER		RED	1338	33,328	20865	258	
6V-SH-2010 ANTI SEISMIC + SYLOMER		GREY	2010	34,534	20866	410	
6V-SH-2676 ANTI SEISMIC + SYLOMER		GREEN	2676	36,13	20867	527	
6V-SH-4200 ANTI SEISMIC + SYLOMER		BROWN	4200	36,13	20868	902	
	9V-SH-603 ANTI SEISMIC + SYLOMER	BLUE	603	46,273	20887	121	
	9V-SH-855 ANTI SEISMIC + SYLOMER	WHITE	855	46,786	20888	167	
	9V-SH-1107 ANTI SEISMIC + SYLOMER	BLACK	1107	47,002	20889	224	
	9V-SH-1557 ANTI SEISMIC + SYLOMER	BEIGE	1557	47,812	20890	311	
	9V-SH-2007 ANTI SEISMIC + SYLOMER	RED	2007	51,151	20891	387	
	9V-SH-3015 ANTI SEISMIC + SYLOMER	GREY	3015	52,96	20892	616	
	9V-SH-4014 ANTI SEISMIC + SYLOMER	GREEN	4014	55,354	20893	790	
	9V-SH-6300 ANTI SEISMIC + SYLOMER	BROWN	6300	55,354	20900	1353	

VSH ANTI-SEISMIC SUPPORTS. ELASTIC PROPERTIES

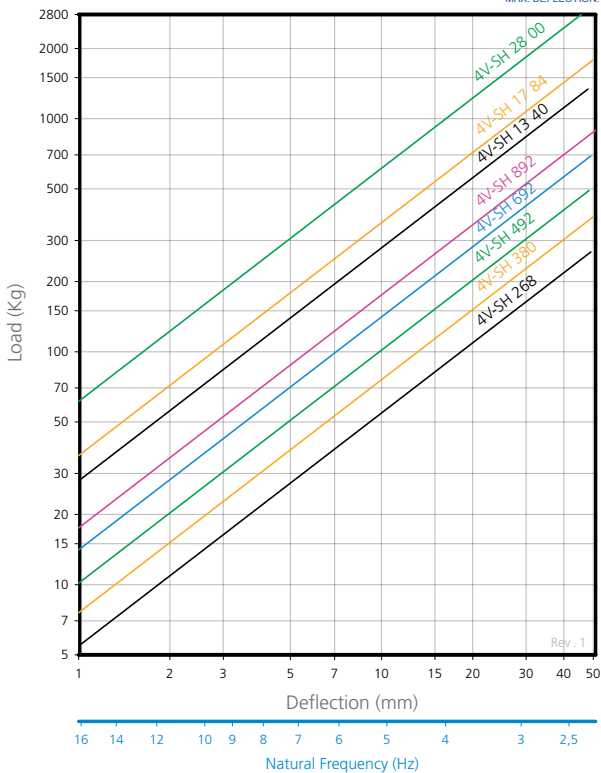
LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 1 AMC Antiseismic V-SH



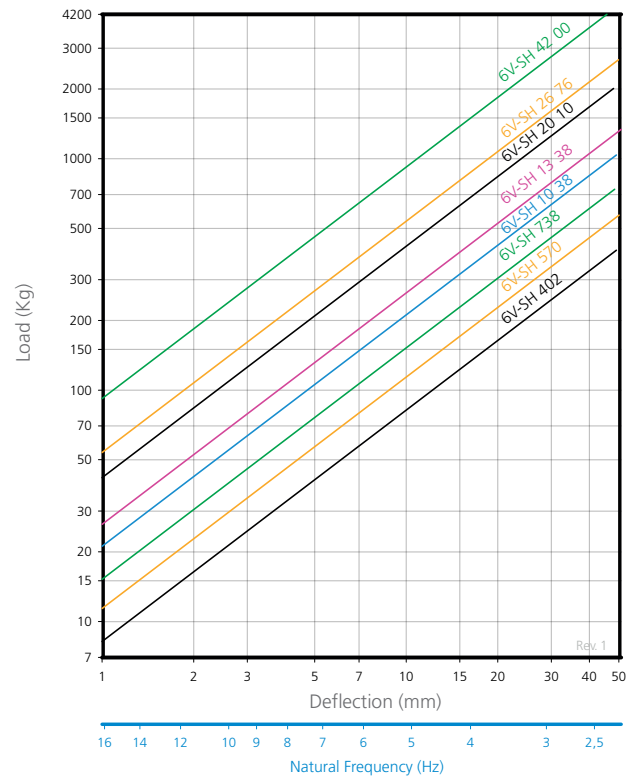
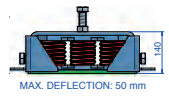
LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 2 AMC Antiseismic V-SH



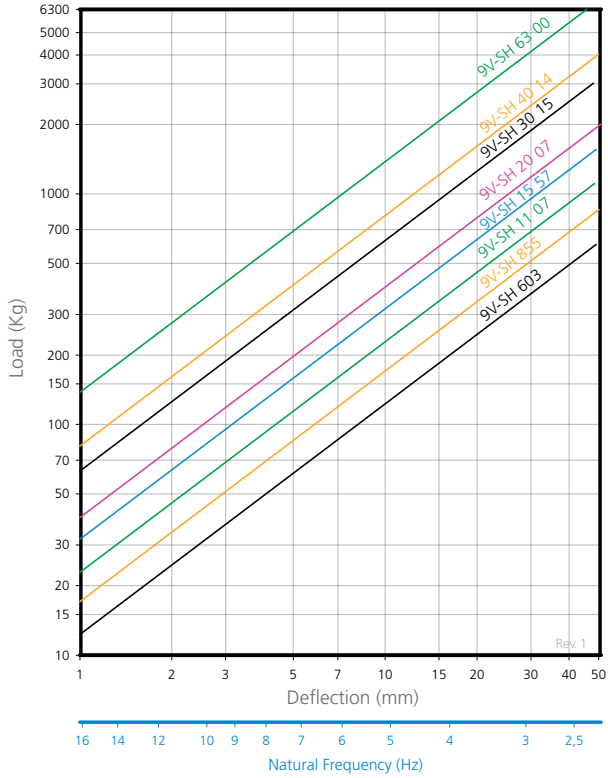
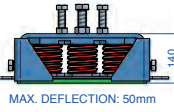
LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 4 AMC Antiseismic V-SH



LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 6 AMC Antiseismic V-SH



LOAD VS DEFLECTION DIAGRAM
 AMC-MECANOCAUCHO® 9 AMC Antiseismic V-SH



VSR ANTI-SEISMIC SUPPORTS

This range of mounts comprises:

- A spring high elasticity and very low natural frequency
- An incorporated levelling system
- A non-slip rubber base
- A spare Sylomer to isolate mid and high frequencies comes standard

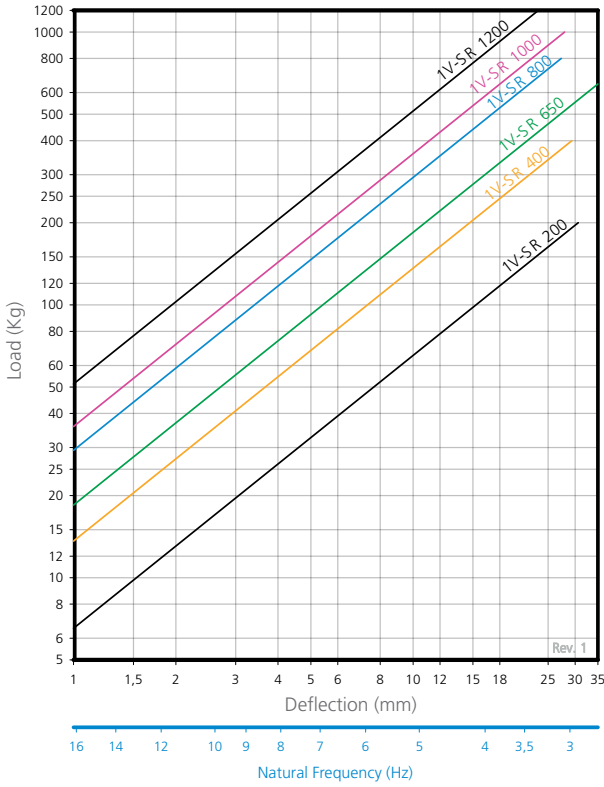


Natural Frequency 3 to 5 Hz

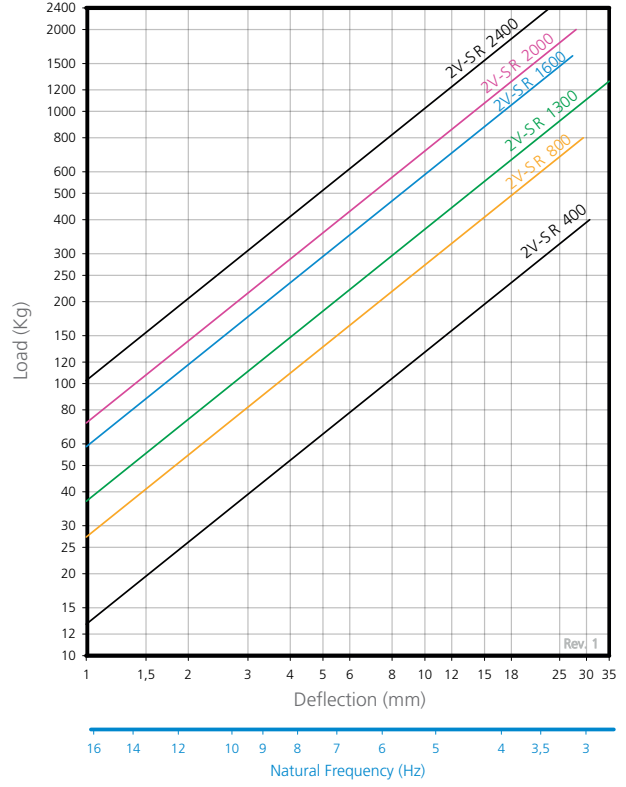
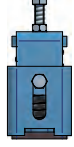
	Type	Spring color	Load (kg)	Weight (kg)	Code	K (N/mm)
	V-SR-200 ANTI SEISMIC + SYLOMER®	BLACK	200	5,72	21340	64
	V-SR-400 ANTI SEISMIC + SYLOMER®	BLACK	400	0	21341	134
	V-SR-650 ANTI SEISMIC + SYLOMER®	BLACK	650	6,715	20502	181
	V-SR-800 ANTI SEISMIC + SYLOMER®	BLACK	800	6,74	20503	287
	V-SR-1000 ANTI SEISMIC + SYLOMER®	BLACK	1000	7,045	20504	351
	V-SR-1200 ANTI SEISMIC + SYLOMER®	BLACK	1200	7,119	20505	503
	2V-SR-400 ANTI SEISMIC + SYLOMER®	BLACK	400	0	21342	128
	2V-SR-800 ANTI SEISMIC + SYLOMER®	BLACK	800	0	21343	267
	2V-SR-1300 ANTI SEISMIC + SYLOMER®	BLACK	1300	12,335	20506	362
	2V-SR-1600 ANTI SEISMIC + SYLOMER®	BLACK	1600	12,385	20507	575
	2V-SR-2000 ANTI SEISMIC + SYLOMER®	BLACK	2000	12,995	20508	702
	2V-SR-2400 ANTI SEISMIC + SYLOMER®	BLACK	2400	13,143	20509	1007
	4V-SR-800 ANTI SEISMIC + SYLOMER®	BLACK	800	23,4	21344	256
	4V-SR-1600 ANTI SEISMIC + SYLOMER®	BLACK	1600	24,5	21345	535
	4V-SR-2600 ANTI SEISMIC + SYLOMER®	BLACK	2600	23,733	21141	724
	4V-SR-3200 ANTI SEISMIC + SYLOMER®	BLACK	3200	23,833	21142	1150
	4V-SR-4000 ANTI SEISMIC + SYLOMER®	BLACK	4000	27,66	21143	1404
	4V-SR-4800 ANTI SEISMIC + SYLOMER®	BLACK	4800	25,349	21144	2013
	6V-SR-1200 ANTI SEISMIC + SYLOMER®	BLACK	1200	0	21346	384
	6V-SR-2400 ANTI SEISMIC + SYLOMER®	BLACK	2400	0	21347	802
	6V-SR-3900 ANTI SEISMIC + SYLOMER®	BLACK	3900	35,812	20877	1086
	6V-SR-4800 ANTI SEISMIC + SYLOMER®	BLACK	4800	35,962	20878	1724
	6V-SR-6000 ANTI SEISMIC + SYLOMER®	BLACK	6000	37,792	20879	2107
	6V-SR-7200 ANTI SEISMIC + SYLOMER®	BLACK	7200	38,236	20880	3020
	9V-SR-1800 ANTI SEISMIC + SYLOMER®	BLACK	1800	0	21348	576
	9V-SR-3600 ANTI SEISMIC + SYLOMER®	BLACK	3600	54,877	21349	1203
	9V-SR-5850 ANTI SEISMIC + SYLOMER®	BLACK	5850	54,877	20952	1629
	9V-SR-7200 ANTI SEISMIC + SYLOMER®	BLACK	7200	55,102	20953	2587
	9V-SR-9000 ANTI SEISMIC + SYLOMER®	BLACK	9000	57,847	20954	3160
	9V-SR-10800 ANTI SEISMIC + SYLOMER®	BLACK	10800	58	20955	4530

VSR ANTI-SEISMIC SUPPORTS. ELASTIC PROPERTIES

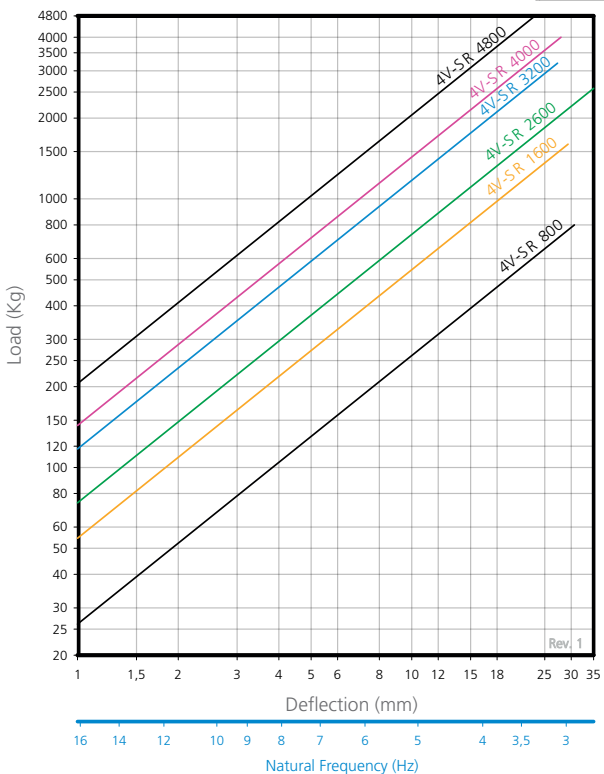
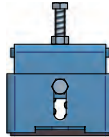
LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 1 AMC Antiseismic V-SR



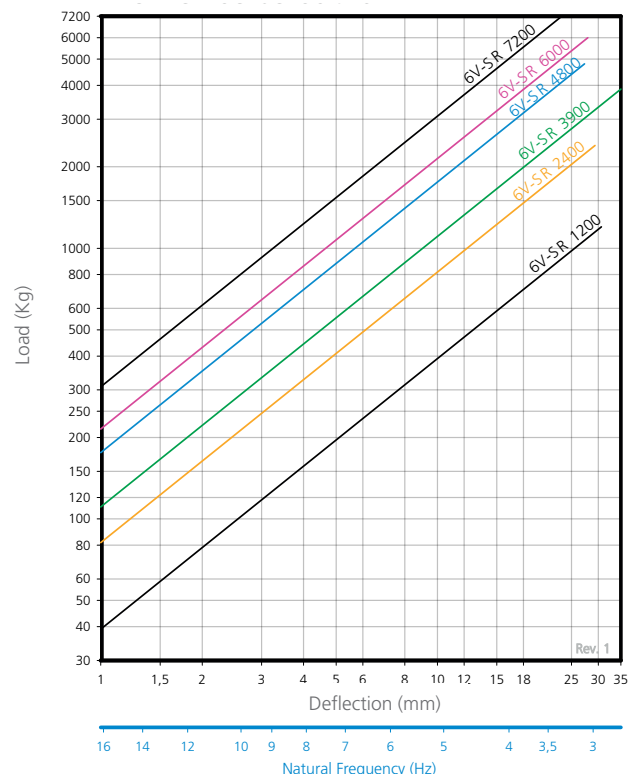
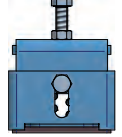
LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 2 AMC Antiseismic V-SR



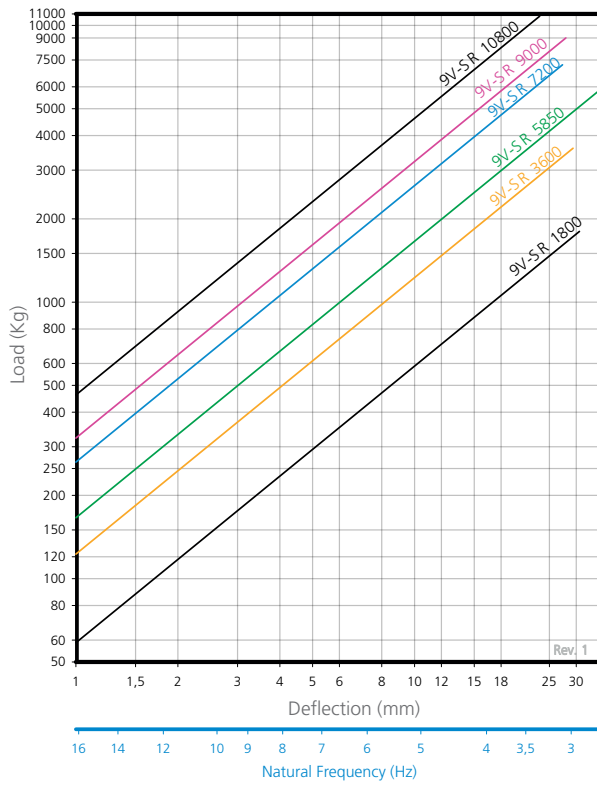
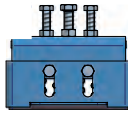
LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 4 AMC Antiseismic V-SR



LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 6 AMC Antiseismic V-SR



LOAD VS DEFLECTION DIAGRAM
AMC-MECANOCAUCHO® 9 AMC Antiseismic V-SR



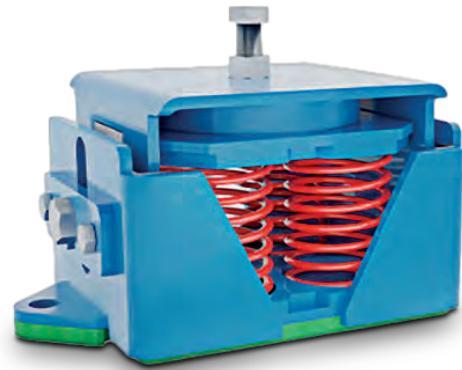
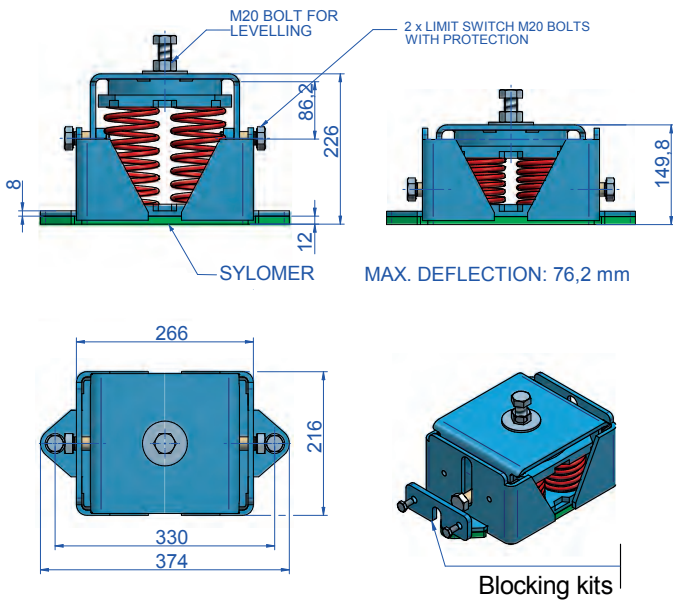
ANTI-SEISMIC SUPPORT PRELOADABLE 4V-SX

V-SX mounts are capable of reaching very low natural frequencies, from 2 to 3Hz. In addition, this mount incorporates a Sylomer[®] mat, also providing good isolation at mid-high frequencies. Thanks to this spring-Sylomer[®] combination, this mount can provide great isolation across the entire frequency range.

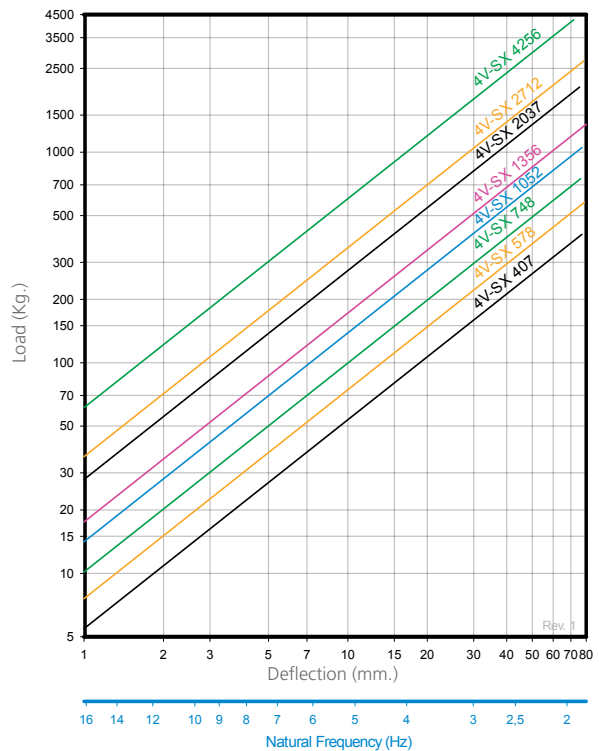
TECHNICAL CHARACTERISTICS

This range of supports consists of:

- A spring with high elasticity and very low natural frequency.
- An incorporated levelling system.
- An incorporated preload system.
- A Sylomer[®] pad under the mount base in order to isolate mid-high frequencies.



LOAD DEFLECTION CURVE
ANTI-SEISMIC SUPPORT PRELOADABLE 4V-SX



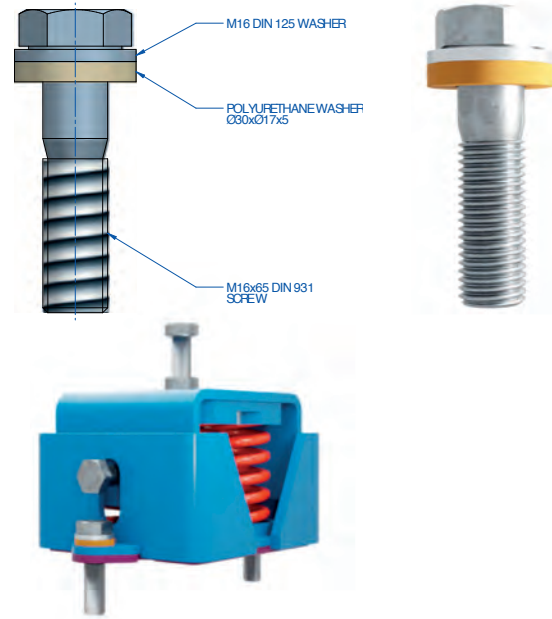
Type	Spring color	Load (kg)	Weight (kg)	K (N/mm)	Code
4V-SX 407 PRELOADABLE ANTI-SEISMIC + SYLOMER [®]	BLUE	407	32	53,6	20802
4V-SX 578 PRELOADABLE ANTI-SEISMIC + SYLOMER [®]	WHITE	578	32	74,4	20803
4V-SX 748 PRELOADABLE ANTI-SEISMIC + SYLOMER [®]	BLACK	748	32	99,6	20804
4V-SX 1052 PRELOADABLE ANTI-SEISMIC + SYLOMER [®]	BEIGE	1052	32	138,4	20805
4V-SX 1356 PRELOADABLE ANTI-SEISMIC + SYLOMER [®]	RED	1356	32	172	20806
4V-SX 2037 PRELOADABLE ANTI-SEISMIC + SYLOMER [®]	GREY	2037	32	273,6	20800
4V-SX 2712 PRELOADABLE ANTI-SEISMIC + SYLOMER [®]	GREEN	2712	32	351,2	20807
4V-SX 4256 PRELOADABLE ANTI-SEISMIC + SYLOMER [®]	BROWN	4256	32	601,2	20808



SYLOMER FIXATION KIT

The Sylomer washers allow a mechanical fixation avoiding structural borne noise.

Type	Code
1V-SR-SH/2V-SR-SH/4V-SX ANTI-SEISMIC	708095
4/6/9V-SR-SH ANTI-SEISMIC	708096
AMC ANTI-SEISMIC	708097
ANTI-SEISMIC MINI	708098
1 AMC/1V-SR/1V-SH + SYLOMER®	708064

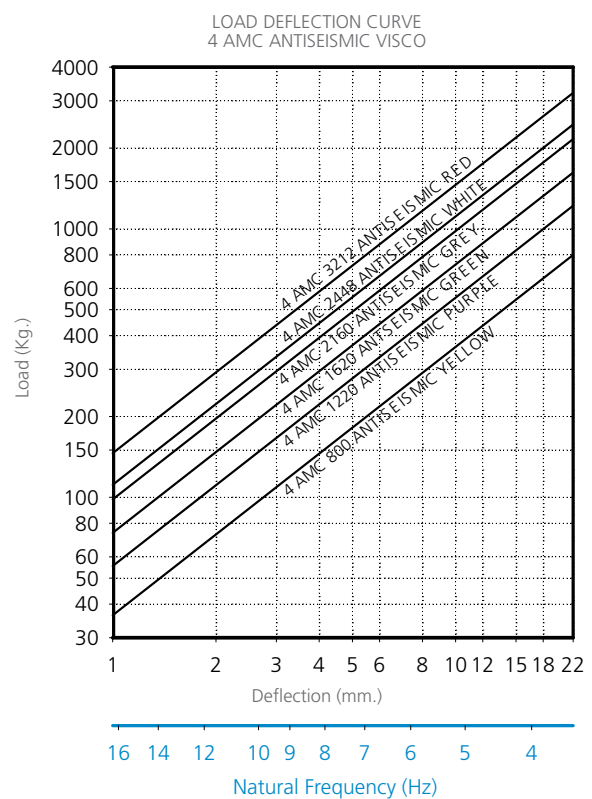
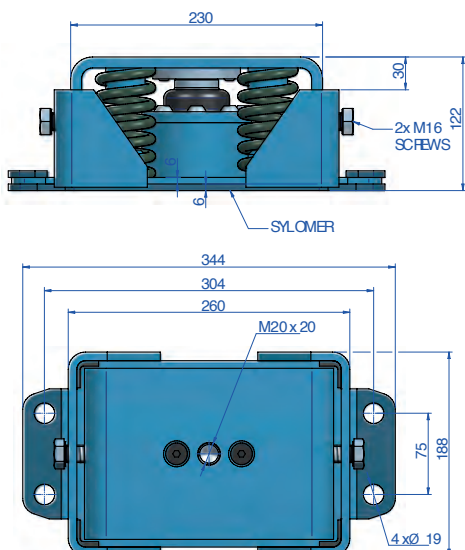
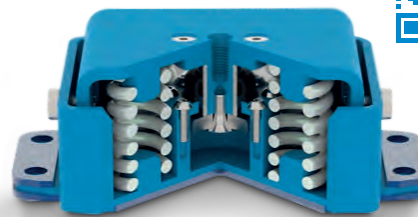


ANTI SEISMIC VISCO

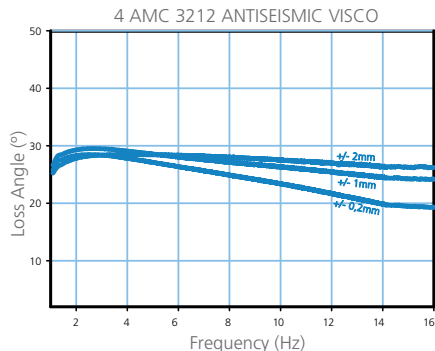
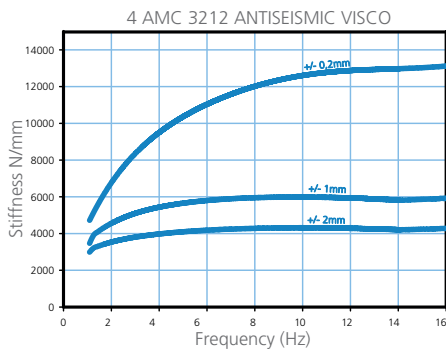
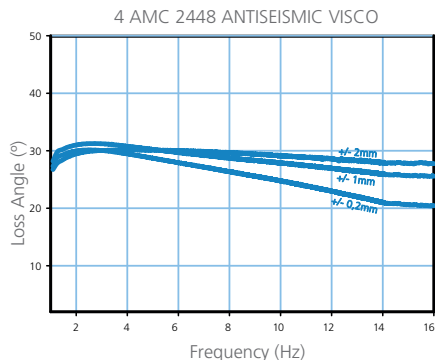
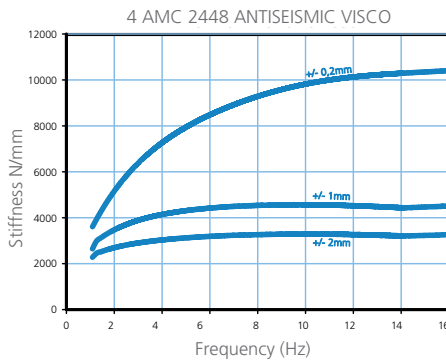
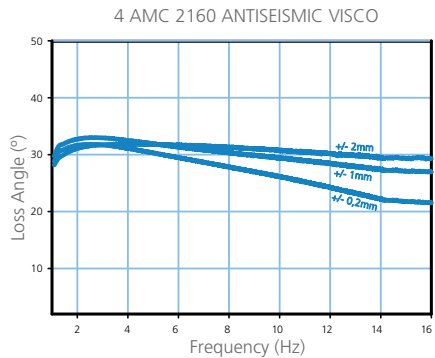
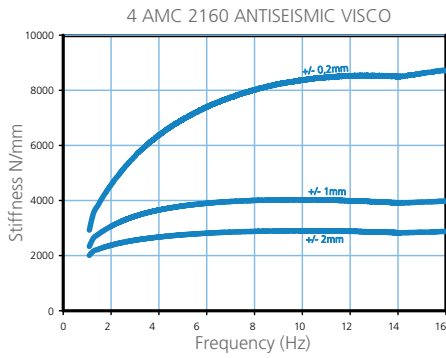
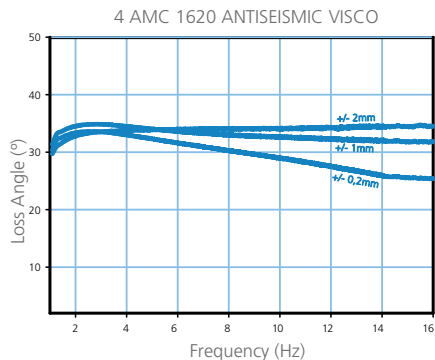
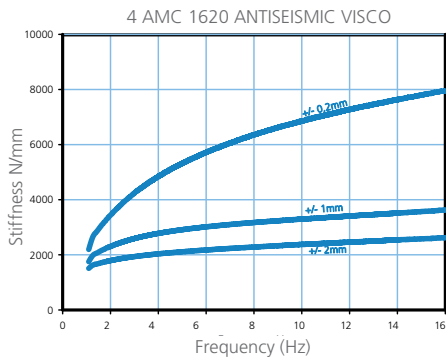
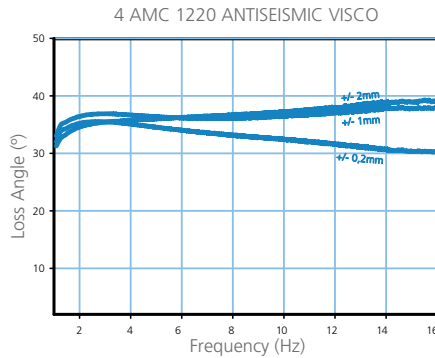
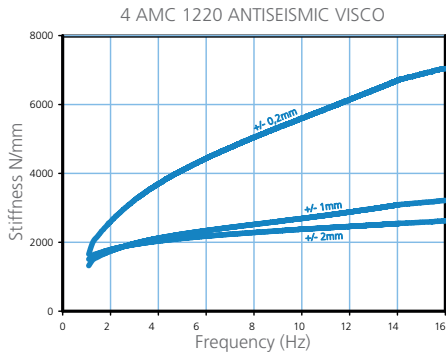
This spring mount is suitable for those applications that require greater vibration isolation and movement control, such as:

- Emergency generator sets on Hospitals, data bank organizations or residential areas.
- Pumps or piston compressors that have high eccentricity where a mass of inertia cannot be installed.
- HVAC equipment on Hospitals or residential areas.
- This mount is suitable for the isolation of static rotating machines which are exposed to axial and radial shocks, dripping oil or diesel or exposure to the weathering.

Type	No. Springs	Spring color	Deflection (mm)	Max. Load (kg)	Code	K (N/mm)
ANTI SEISMIC VISCO	4	YELLOW	22	800	21269	364
	4	PURPLE	22	1220	21256	556
	4	GREEN	22	1620	21255	736
	4	GREY	22	2160	21257	982
	4	WHITE	22	2448	21258	1113
	4	RED	22	3212	21259	1380



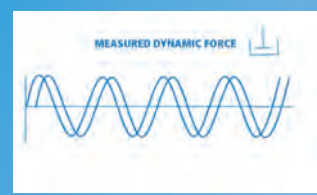
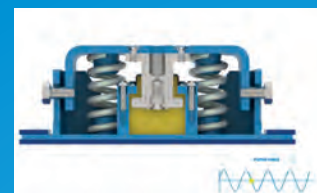
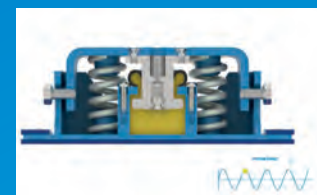
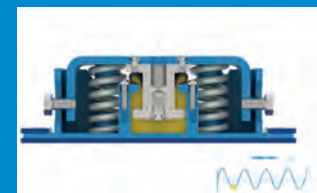
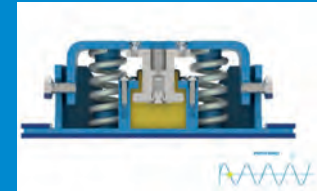
DYNAMIC BEHAVIOUR



SEQUENCE OF THE ANTISEISMIC MOVEMENT



WATCH THIS MOVEMENT IN VIDEO



VIBRABSORBER + sylomer[®]

with adjustable damping & vertical displacement end stroke buffer

The Vibrabsorber+Sylomer[®] with adjustable damping system is composed of a damping chamber where the piston can allow more or less viscous fluid transmission. This anti vibration mount has incorporated anti traction buffers of Sylomer[®] to limit the vertical movement of the mount if needed.

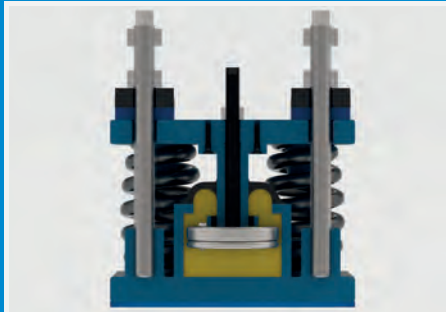
The base of the mount includes a layer of Sylomer[®] to reduce the transmission of high frequencies that could go through the coil springs.

The dynamic stiffness and angle loss depends on the amplitude and also on how open the piston orifices are. This can be adjusted by rotating the discs of the piston. This rotation is achieved by turning a central bolt from Minimum to Maximum.

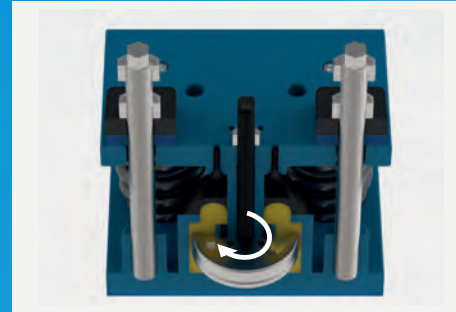
This product is tailored for each application.



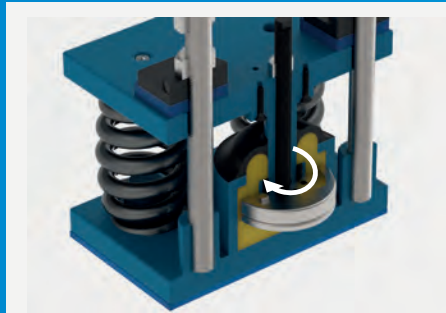
STIFFNESS AND DAMPING COEFFICIENT CAN BE TUNED TO BESPOKE APPLICATIONS.



THE DAMPING FLUID IS COMPOSED OF A VISCOUS THERMOSTABLE ELASTOMER. THE RUBBER MEMBRANE IS BONDED TO THE METAL TO AVOID LEAKAGES OF FLUID. THE MEMBRANE ALLOWS TRANSFER OF FLUID FROM CHAMBER TO CHAMBER.



THE DAMPING IS ADJUSTABLE BY A ROTATION OF A CENTRAL BOLT FROM MINIMUM TO MAXIMUM DAMPING.

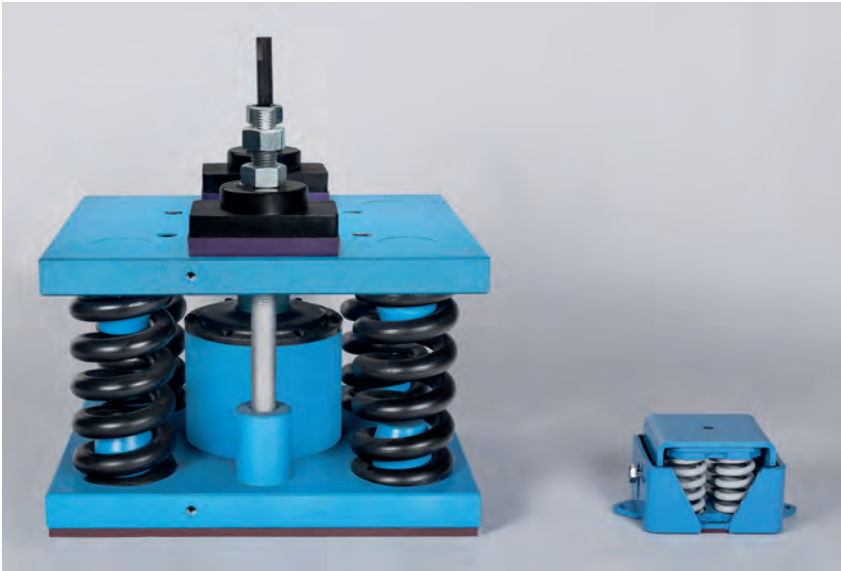


VARIABLE DAMPING IS ACHIEVED BY A ROTATION OF DISCS.

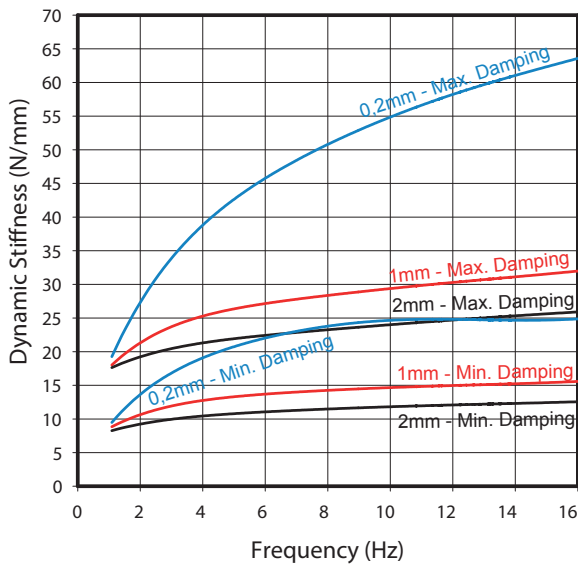


VARIABLE DAMPING IS ACHIEVED BY A ROTATION OF DISCS.

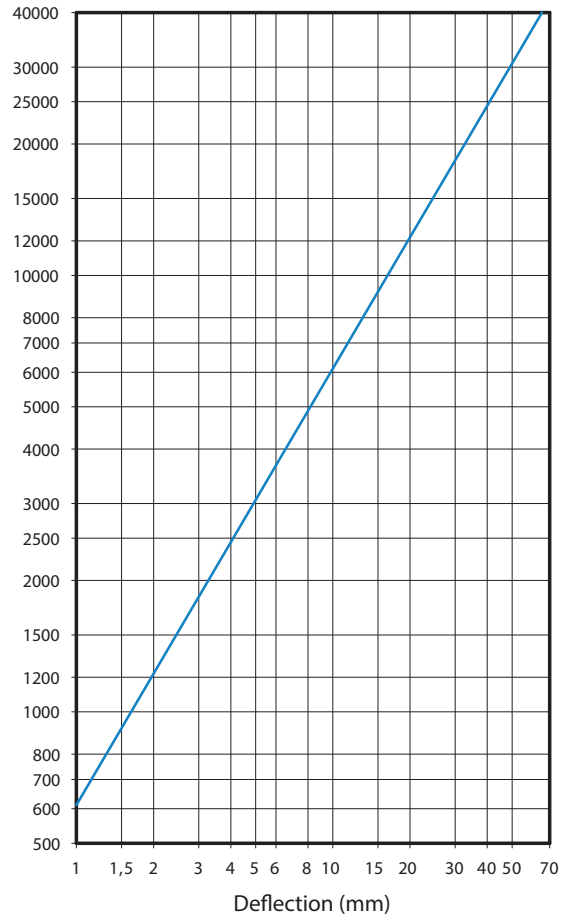




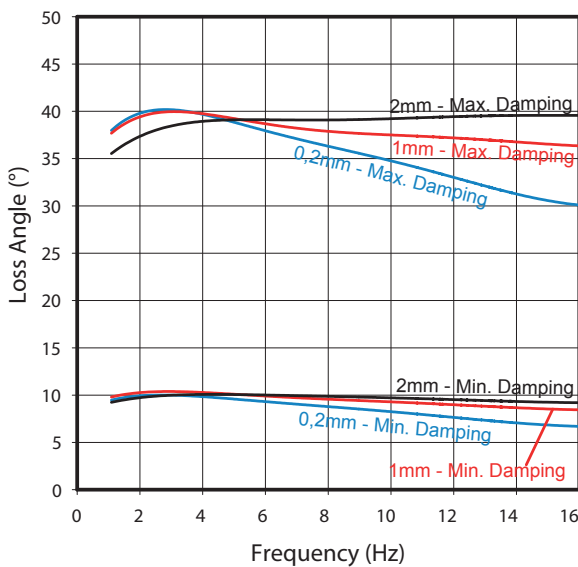
AMPLITUDE DEPENDANT DYNAMIC STIFFNESS
ADJUSTABLE VISCOELASTIC SPRING



LOAD DEFLECTION CURVE
ADJUSTABLE VISCOELASTIC SPRING



AMPLITUDE DEPENDANT LOSS ANGLE
ADJUSTABLE VISCOELASTIC SPRING



AMC MECANOCAUCHO® ONLINE CALCULATION SOFTWARE

TRAINING WILL BE PROVIDED BY OUR APPLICATION ENGINEERS.

Total Center of Gravity

Xcdg (mm.)	Ycdg (mm.)	Total Mass
860,0000	500,0000	700,00 Kg.

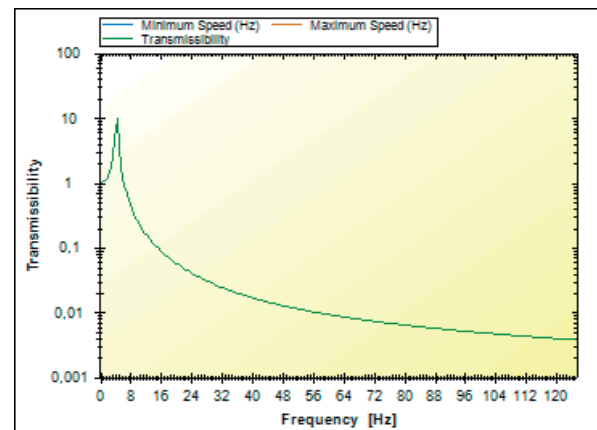
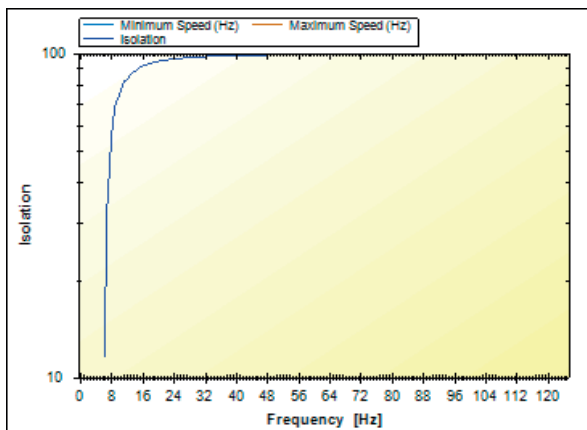
System Loads

Name	x	y	m



AMC MECANOCAUCHO® TECHNICAL SUPPORT

N°	Code	Description	k (N/mm.)	X (mm.)	Y (mm.)	F (Kg.)	s (mm.)	% MAX.
1	20373	1 AMC 250+Sylomer®	84,60	0,00	0,00	116,67	13,60	46,67
2	20373	1 AMC 250+Sylomer®	84,60	860	0,00	116,67	13,60	46,67
3	20373	1 AMC 250+Sylomer®	84,60	1720,00	0,00	116,67	13,60	46,67
4	20373	1 AMC 250+Sylomer®	84,60	1720,00	1000,00	116,67	13,60	46,67
5	20373	1 AMC 250+Sylomer®	84,60	860	1000,00	116,67	13,60	46,67
6	20373	1 AMC 250+Sylomer®	84,60	00	1000,00	116,67	13,60	46,67



Isolation % for the order 1,00 at 1.500,00 rpm 96,25 %

Do not hesitate to ask us for login details at sales@amcsa.es

VIBRATION ISOLATOR PRO BLUETOOTH ACCELEROMETER

DESCRIPTION

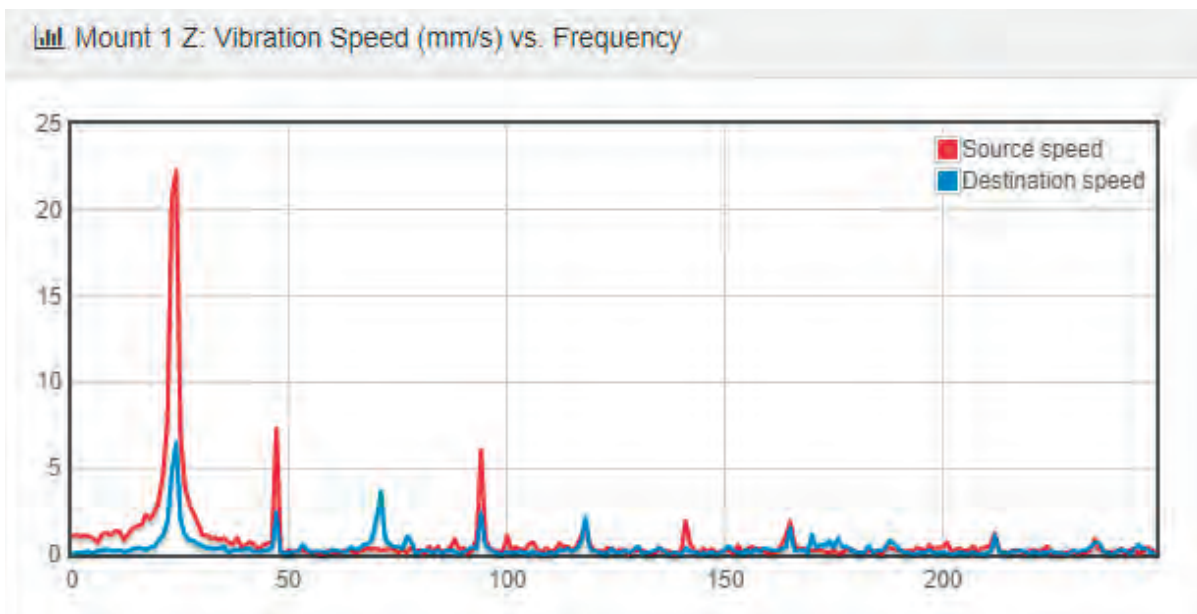
AMC MECANOCAUCHO® Bluetooth Accelerometer has been developed to work in conjunction with the AMC MECANOCAUCHO® free of cost app Vibration Isolator Pro for Android and iOS.

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 bandwidth
- Low noise
- iOS and Android compatible



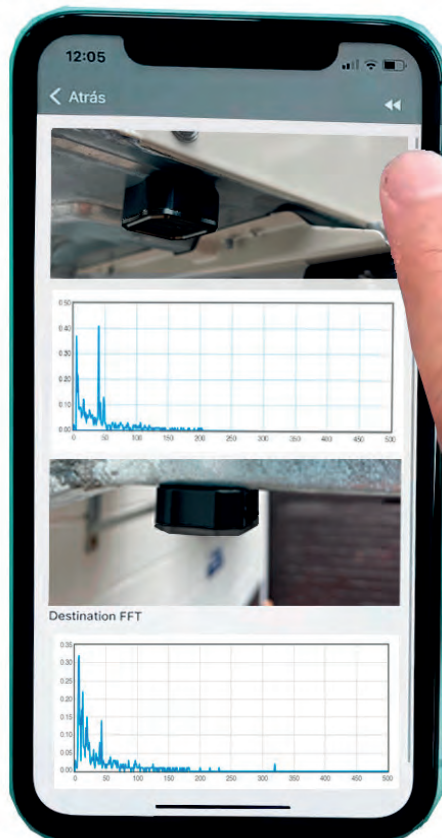
* AMC S.A. reserves the right to modify the design and manufacture of the materials presented in this catalogue without prior notice.

SPECIFICATIONS

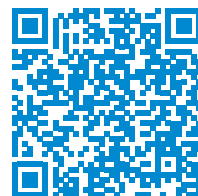
Acceleration Range	$\pm 10g$
Lower frequency limit	0Hz
Upper frequency limit	500Hz
Sensor technology	MEMS
Output Units	mm/s
Sampling rate	1024 kHz
Dimension	41 x 33 x 23 mm
Weigth	48 g
Housing material	Aluminium, plastic
Operating temperature range	-20 to 60°C
Residual Noise density	80 $\mu g/\sqrt{Hz}$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



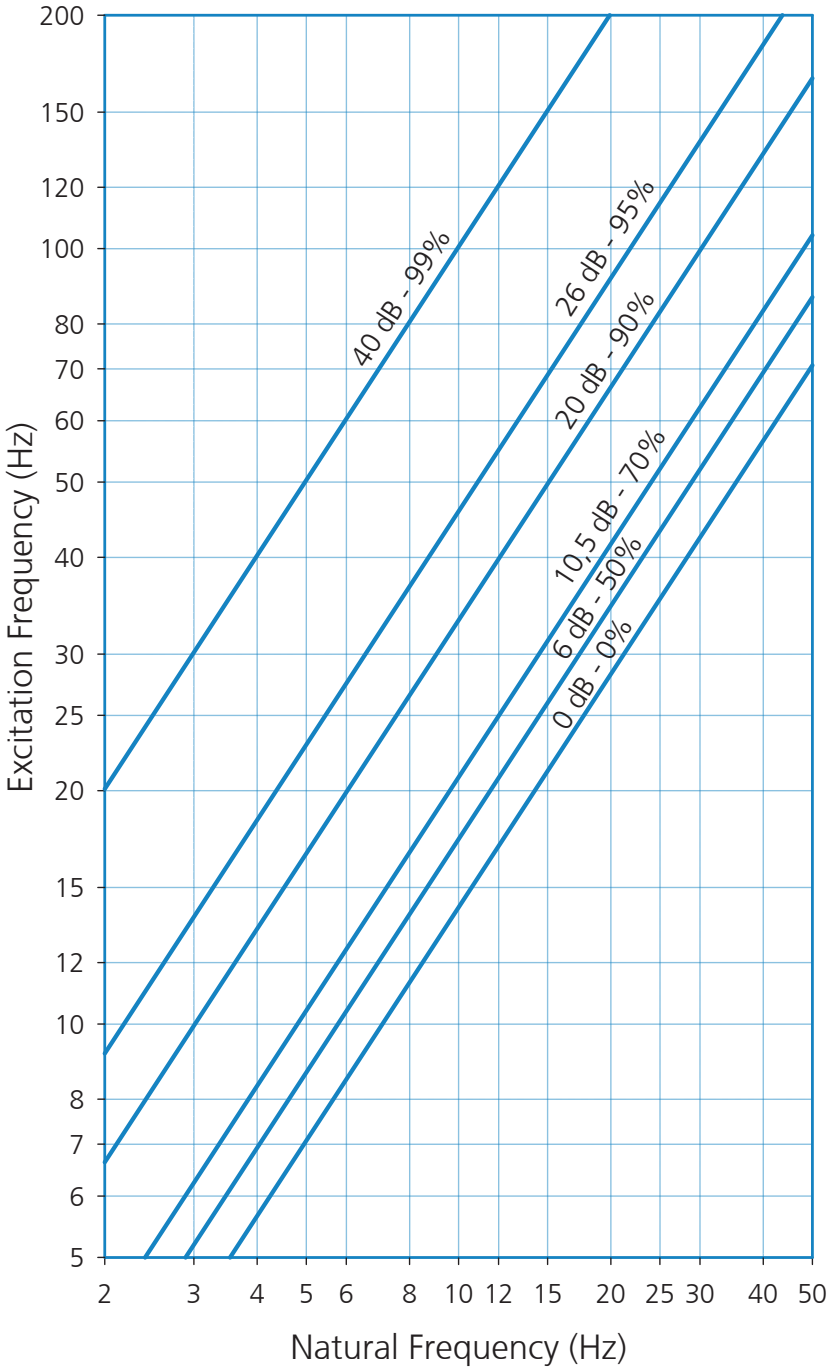
Type	Code
Bluetooth VIP Accelerometer	711062



VIDEO TO
KNOW THE NEW
APPLICATION



VIBRATION ISOLATION GRAPH



OTHER AMC PRODUCTS



AMC-MECANOCAUCHO® ANTIVIBRATION MOUNTINGS

Rubber to metal mounts for industrial applications.



AKUSTIK & AKUSTIK+^{by getzner}sylomer®

Optimized acoustic hangers, floor mounts and wall ties for the structure borne noise isolation of buildings and machinery.



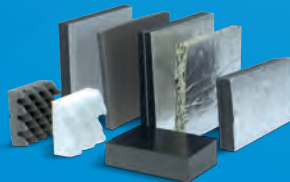
sylomer^{by getzner}®

Micro-cellular polyurethane material specially conceived for vibration isolation.



Granab® Golvregelsystem

Acoustic and technical floor for buildings.



AKUSTIKABSORBER

Soundproofing composites for industrial applications.

DISCOVER OUR **NEW APPLICATIONS**: available at Android and IOS.

VIBRATION ISOLATOR PRO



Let your phone discover **THE MAIN DISTURBING FREQUENCIES** of your application. The integrated accelerometers of your phone are capable of making an FFT measurement where you will be able to see the main frequencies that you need to isolate.



ACOUSTIC HANGER PRO



Discover the app that helps you **FIND THE CORRECT ACOUSTIC HANGER** for your application. Let your phone provide you a full report of isolation, datasheets and installation video. **SIMPLE, EASY & FREE.**



AMC
MECANOCAUCHO

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