

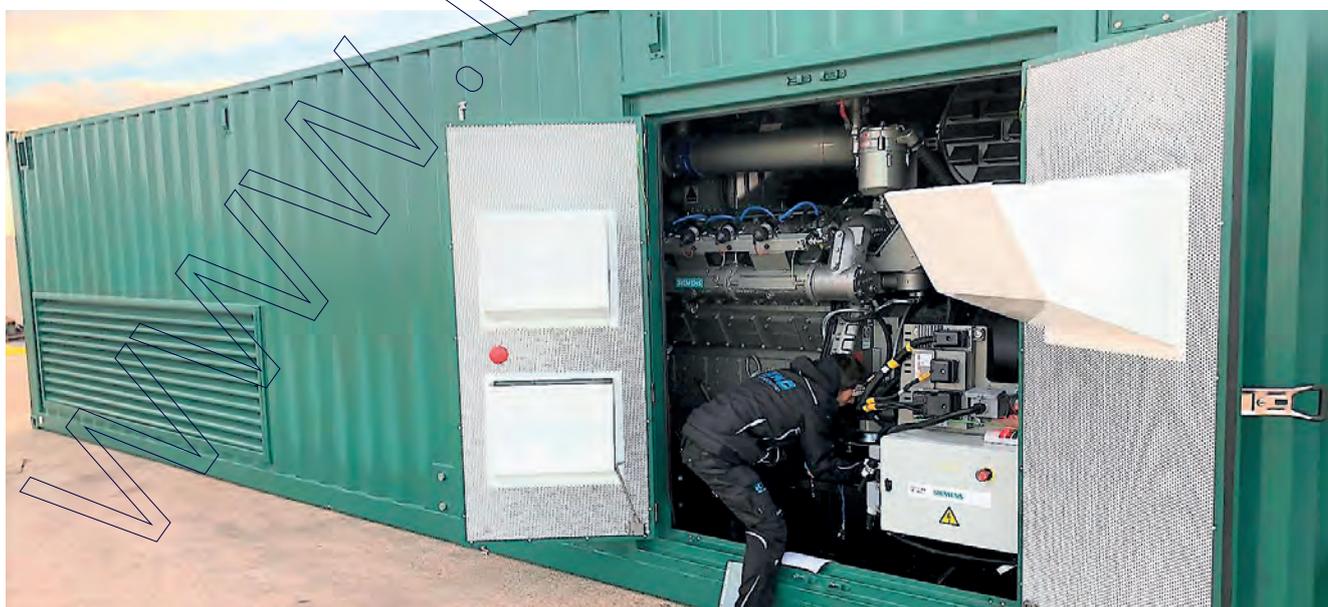
# RUBBER METAL

Anti vibration mounts  
**AMC MECANOCAUCHO®**

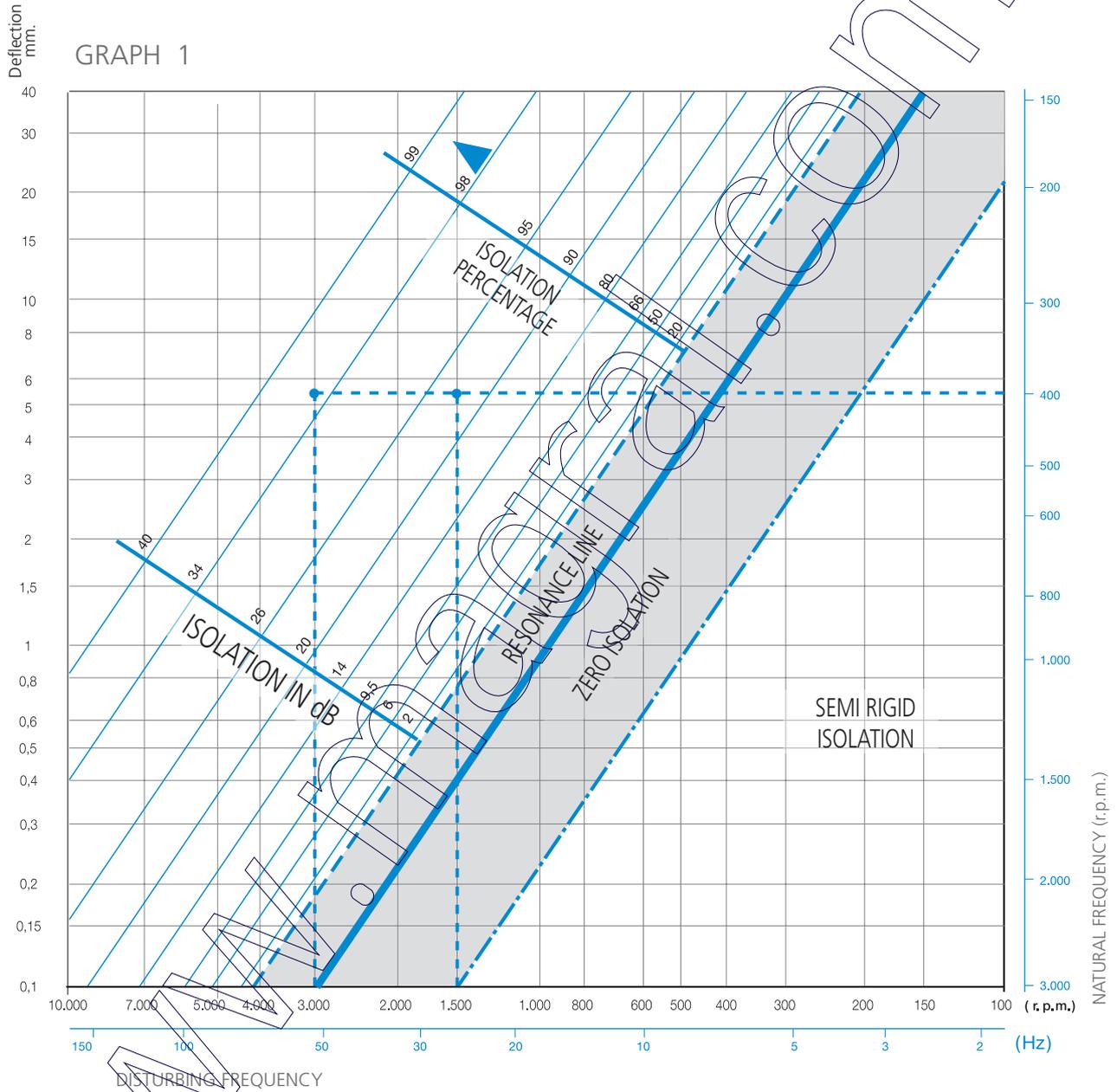
# APPLICATIONS

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



# VIBRATION ISOLATION EFFICIENCY GRAPH



# INDEX DEPENDING ON THE APPLICATION

## MOBILE APPLICATIONS: ENGINES, GENERATORS, COMPRESSOR PUMPS

 BRB Page 16	 BSB Page 18	 BRBX Page 20	 BRT Page 21	 MD Page 22	 MARINE MOUNTS Page 24	 MARINE X MOUNT Page 25	 MARINE MOUNTS TYPE XD Page 26	 MARINE MOUNTS TYPE X7 Page 27
 HYDRAULIC MOUNTS Page 28	 HYDRAULIC CONES Page 34	 CONES Page 38	 DSM Page 46	 CONES WITH FIXATION FLANGE Page 48	 CABIN MOUNTS Page 50	 CB Page 52	 TF Page 54	 SCH Page 56
 SCHR Page 58	 SCB Page 60	 SCBR Page 62	 VD Page 63	 MARINE V-TYPE Page 64	 AN 60 Page 66	 NP MOUNTS Page 68	 SN Page 69	 TFS Page 69
 AT Page 70	 SPS Page 72	 AKUSTIK PIPE / OMEGA Page 73	 WF Page 74	 FZ SYLOMER® Page 76	 SFC, SFT, ST Page 78	 WIRE ROPE ANTI VIBRATION MOUNT Page 79	 HELICAL WIRE ROPE SOLUTION Page 80	 FZM Page 81
 SVT Page 82								

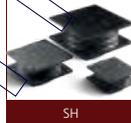
## STATIC APPLICATIONS: ENGINES, GENERATORS, HYDRAULIC PUMPS AND COMPRESSORS

 GENERATOR MOUNT IN V Page 83	 DRD Page 84	 DSD Page 86	 ATP Page 88	 TRANSFORMER MOUNTS Page 89	 ELASTOMERIC SPRINGS Page 90	 REINFORCED ELASTOMERIC SPRINGS Page 91
--	---	---	---	--	--	--

## BUSHINGS

 ECCENTRIC BUSHINGS Page 92	 BUSHINGS Page 94
--	--

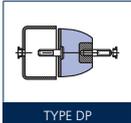
## MOUNTS FOR HEAVY LOADS

 SANDWICH Page 95	 SH Page 96	 ANTI-SKID Page 98	 TYPE B Page 98	 TYPE P Page 98	 ANTI-SKID P Page 98	 TYPE S Page 98
--	--	---	---	--	---	--

## MACHINE LEVELLING MOUNTS

 NF-NFR Page 100	 SV Page 101	 SV LOW Page 102
---	---	---

## ELASTIC COUPLINGS

 COUPLING Page 103	 TYPE DP Page 103
---	---

## RUBBER BLOCKS AND MATS

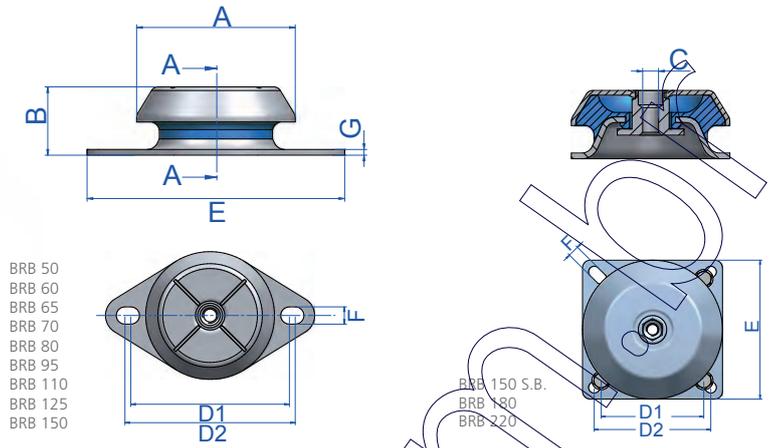
 TYPE I Page 104	 TYPE C Page 104	 300X300 Page 104	 400X400 Page 104	 BLOCKS Page 104
---	---	--	--	---

## BOBBINS & BUFFERS

 STUD MOUNTS Page 106	 RUBBER BUFFERS Page 114
---	---

## OTHERS

 HEIGHT ADJUSTERS Page 116
---



BRB 50  
BRB 60  
BRB 65  
BRB 70  
BRB 80  
BRB 95  
BRB 110  
BRB 125  
BRB 150

BRB 150 S.B.  
BRB 180  
BRB 220

# BRB

## DESCRIPTION

The BRB type AMC MECANOCAUCHO® mounts are antivibration elements which work the rubber in shear and compression. Their tall height section produce large deflections, low natural frequencies, and excellent vibration isolation results. This range of mounts is suitable for applications where high vibration isolation in the 85-95% range is a priority.

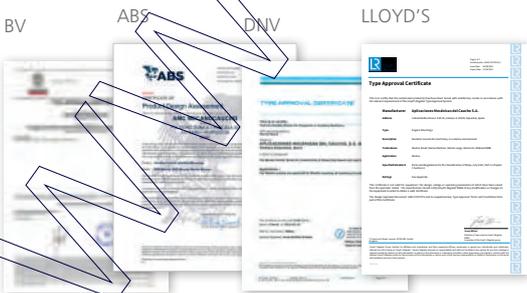
## TECHNICAL CHARACTERISTICS

- The top metal hood protects the rubber from the Ozone, UV rays, diesel or oils which damage the rubber.
- The metal parts have a suitable anticorrosive treatment for outdoor applications. RoHs compliant.
- They 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 mounts are clearly identified, as the base-plates are engraved with the type and hardness, which makes it possible to easily recognise the part even after several years of use.
- The hood has a cross stamped on the top, which enhances its rigidity on mobile applications and also improves the evacuation of oil or liquids that precipitate onto it.

## APPLICATIONS

This mount is suitable for the isolation of mobile rotating machines which are exposed to axial and radial shocks, dripping oil, diesel or exposure to the weather. It is particularly interesting for applications where a high level of vibration isolation is required.

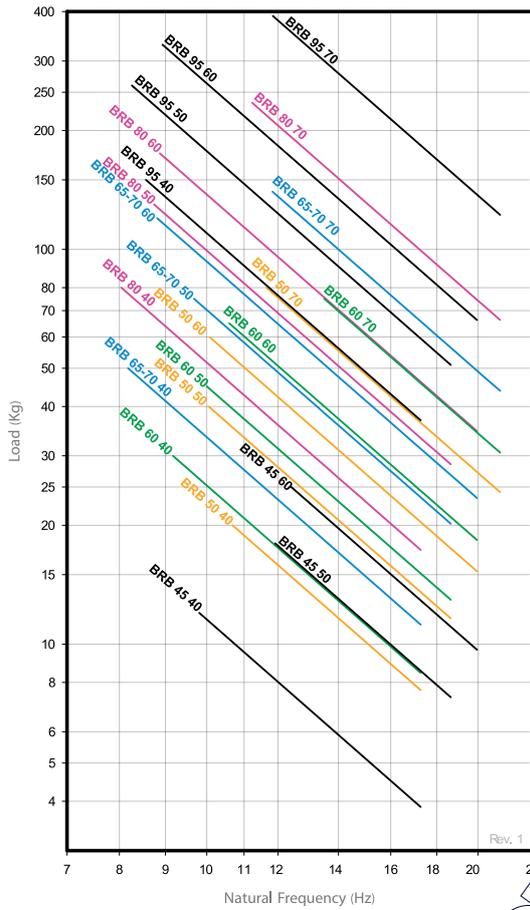
### MARINE CERTIFICATES



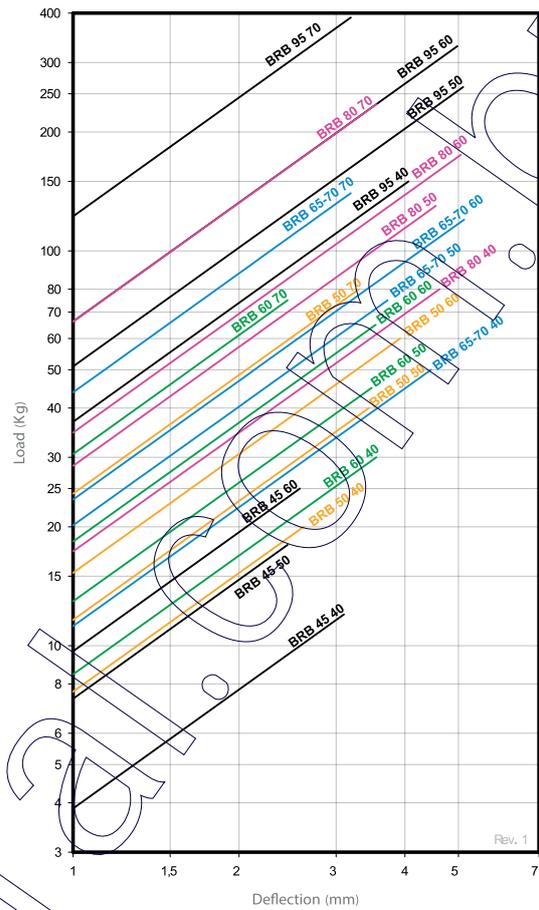
S.B. = Square Base

Type	A (mm)	B (mm)	C (mm)	D1 (Min.)	D2 (Max.)	E (mm)	F (mm)	G (mm)	Weight (gr.)	Code	Load (kg)	Shore
BRB 45	50	32	M-8	61	70	85	6,5	2	131	135137	12	40 Sh
										135138	18	50 Sh
										135139	25	60 Sh
										135451	20	40 Sh
BRB 50	50	25	M-8	61	70	85	6,5	2	117	135453	40	50 Sh
										135455	60	60 Sh
										135457	80	70 Sh
										135101	30	40 Sh
BRB 60	64	35	M-10	76,5	90,5	110	9	2,5	225	135405	45	50 Sh
										135103	65	60 Sh
										135104	75	70 Sh
										135421	50	40 Sh
BRB 65 M10	64	35	M-10	76,5	90,5	110	9	2,5	243	135422	75	50 Sh
										135423	120	60 Sh
										135424	140	70 Sh
										135431	50	40 Sh
BRB 65 M12	64	35	M-12	76,5	90,5	110	9	2,5	243	135432	75	50 Sh
										135433	120	60 Sh
										135434	140	70 Sh
										135251	50	40 Sh
BRB 70	64	35	M-12	100	100	120	11	3	253	135252	75	50 Sh
										135253	120	60 Sh
										135254	140	70 Sh
										135231	80	40 Sh
BRB 80 M10	83	35	M-10	108	112	135	11	3	398	135232	130	50 Sh
										135233	175	60 Sh
										135234	235	70 Sh
										135275	80	40 Sh
BRB 80 M12	83	35	M-12	108	112	135	11	3	398	135276	130	50 Sh
										135277	175	60 Sh
										135278	235	70 Sh
										135771	150	40 Sh
BRB 95 M10	92	39	M-10	122	126,6	150	10	3	657	135772	260	50 Sh
										135773	330	60 Sh
										135774	390	70 Sh
										135761	150	40 Sh
BRB 95 M12	92	39	M-12	122	126,6	150	10	3	657	135762	260	50 Sh
										135763	330	60 Sh
										135764	390	70 Sh
										135241	200	40 Sh
BRB 110 M12	106	41	M-12	137	149	175	13	3	857	135242	305	50 Sh
										135243	420	60 Sh
										135244	450	70 Sh
										135331	200	40 Sh
BRB 110 M16	106	41	M-16	137	149	175	13	3	857	135332	305	50 Sh
										135333	420	60 Sh
										135334	450	70 Sh
										135618	350	40 Sh
BRB 125	123	48	M-16	154	162	190	14	4	1170	135620	500	50 Sh
										135622	700	60 Sh
										135624	900	70 Sh
										135205	450	40 Sh
BRB 150 S.B.	156	53,5	M-16	125	132	164	14,5	4	2030	135206	570	50 Sh
										135207	800	60 Sh
										135208	1000	70 Sh
										135161	450	40 Sh
BRB 150	156	53,5	M-16	176	188	218	14,5	4	1840	135162	570	50 Sh
										135163	800	60 Sh
										135164	1000	70 Sh
										135391	875	40 Sh
BRB 180	186	84	M-20	146	150	181	14	5	3800	135392	1200	50 Sh
										135393	1700	60 Sh
										135394	2400	70 Sh
										135201	1600	40 Sh
BRB 220	230	105	M-24	180	180	220	19	6	6716	135200	2400	50 Sh
										135202	3400	60 Sh
										135203	4200	70 Sh
										135204	2400	50 Sh

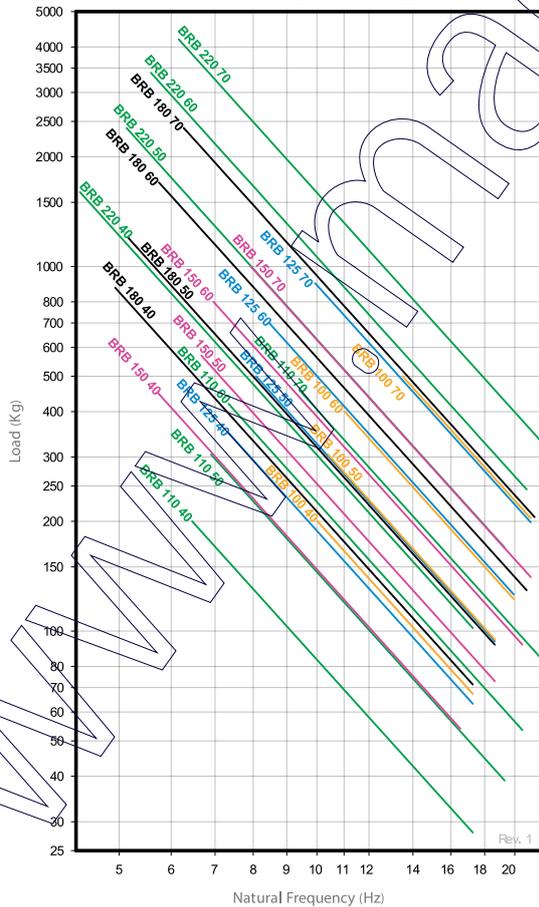
NATURAL FREQUENCY  
AMC MECANOCAUCHO® BRB 45-95



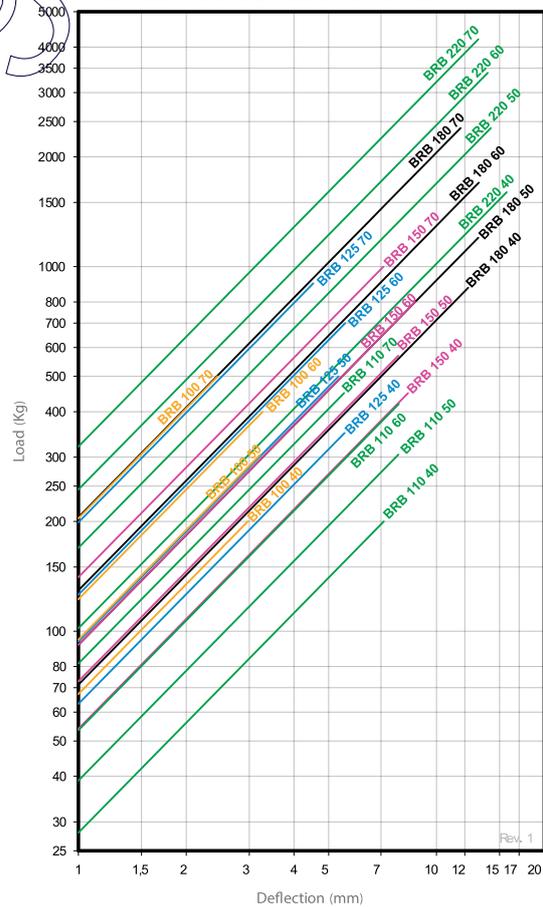
LOAD DEFLECTION GRAPH  
AMC MECANOCAUCHO® BRB 45-95



NATURAL FREQUENCY  
AMC MECANOCAUCHO® BRB 110-220



LOAD DEFLECTION GRAPH  
AMC MECANOCAUCHO® BRB 110-220





# BSB

## DESCRIPTION

The BSB type AMC MECANOCAUCHO® mounts are antivibration elements which work the rubber in shear and compression with an optimal ratio of stiffness and horizontal stability. These mounts are really interesting when stability is a priority in an antivibration suspension.

In applications where the degree of isolation is a priority, we must choose the BRB-type range of AMC MECANOCAUCHO® antivibration mounts.

## TECHNICAL CHARACTERISTICS

- The top metal hood protects the rubber from the Ozone, UV rays, diesel or oils which may cause major damage to the rubber.
- The metal parts have a suitable anticorrosive treatment for outdoor applications. RoHS compliant.
- They 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 mounts are clearly identified, as the baseplates are engraved with the type and hardness, which makes it possible to easily recognise the part even after several years of use.
- The hood has a cross stamped on the top, which enhances its stiffness on mobile applications and also improves the evacuation of oils or liquids that splash onto it.

## APPLICATIONS

In mobile rotating machines that require control of movements and reasonable values of vibrations and noise, such as:

Pumps, Marine-Land auxiliary units, Industrial Vehicles, Compressors, Ventilators...

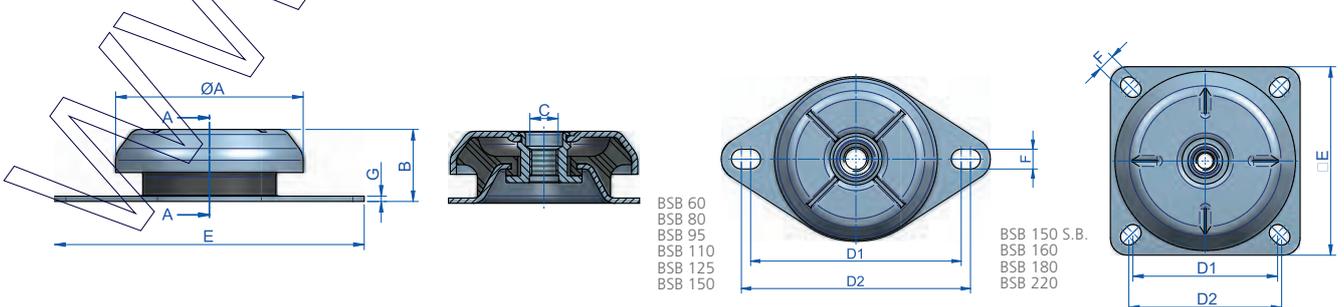
This mount is suitable for the isolation of mobile rotating machines which are exposed to axial and radial shocks, dripping oil or diesel or exposure to the weather.

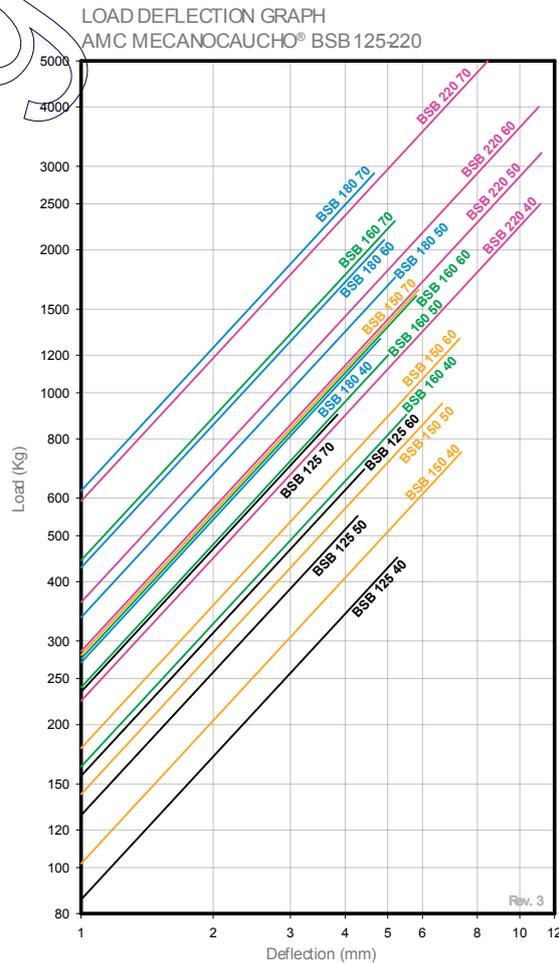
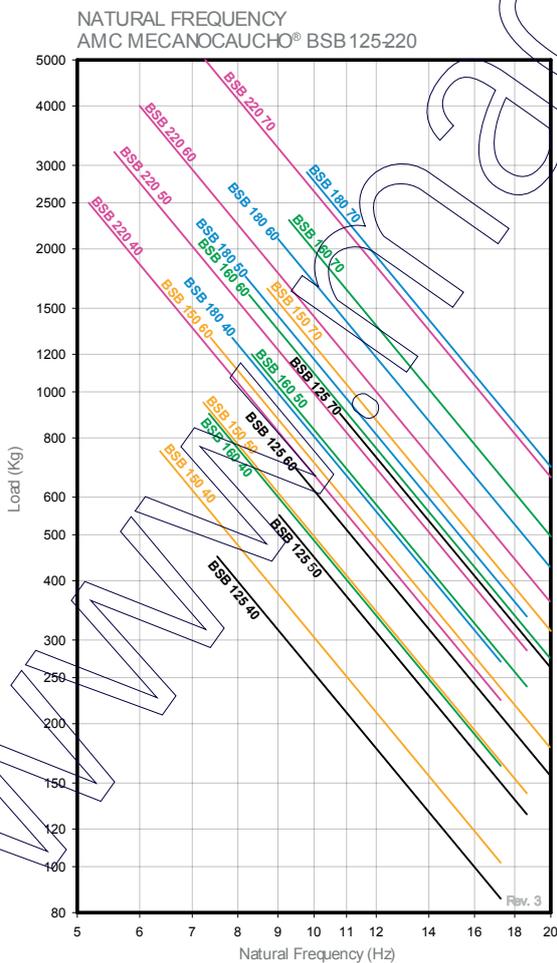
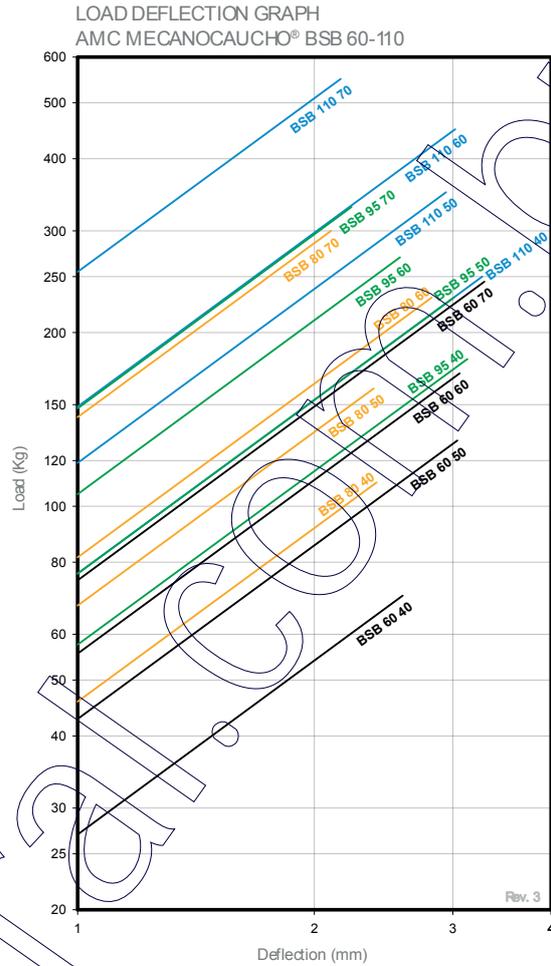
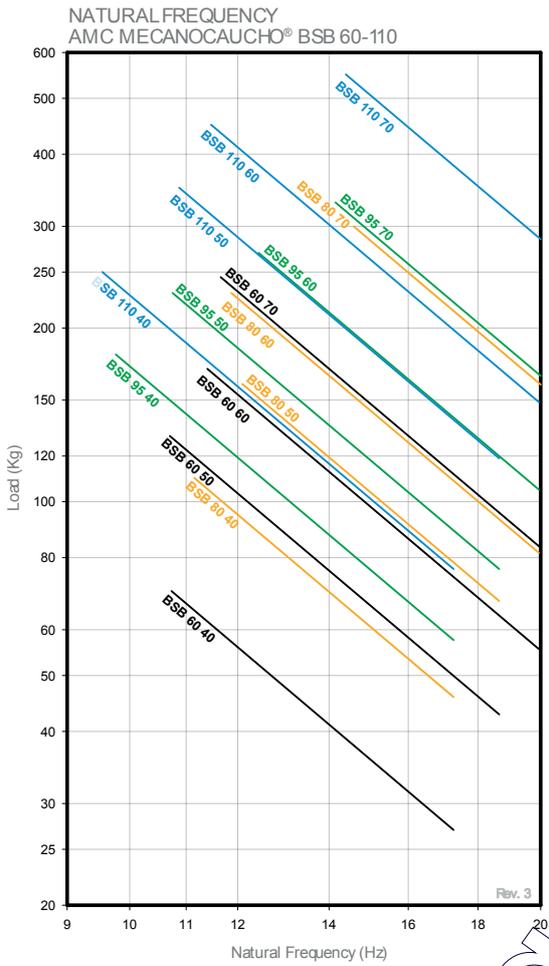


Type	A (mm)	B (mm)	C (mm)	D1 (Min.)	D2 (Max.)	E (mm)	F (mm)	G (mm)	Weight (gr.)	Code	Load (kg)	Shore
BSB 60	64	34	M-10	76,5	90,5	110	9	2,5	235	135106	70	40 Sh
										135109	130	50 Sh
										135107	170	60 Sh
										135108	245	70 Sh
BSB 80 M10	78	31	M-10	108,2	111,2	130	9,2	3	355	135261	110	40 Sh
										135262	160	50 Sh
										135263	230	60 Sh
										135264	300	70 Sh
BSB 80 M12	78	31	M-12	108,2	111,2	130	9,2	3	351	135265	110	40 Sh
										135266	160	50 Sh
										135267	230	60 Sh
										135268	300	70 Sh
BSB 95 M10	92	34	M-10	122	126,4	150	10	3	488	135311	180	40 Sh
										135312	230	50 Sh
										135313	270	60 Sh
										135314	330	70 Sh
BSB 95 M12	92	34	M-12	122	126,4	150	10	3	488	135315	180	40 Sh
										135316	230	50 Sh
										135317	270	60 Sh
										135318	330	70 Sh
BSB 110 M12	106	37	M-12	137	150	175	13	3	785	135335	250	40 Sh
										135336	350	50 Sh
										135337	450	60 Sh
										135338	550	70 Sh
BSB 110 M16	106	37	M-16	137	150	175	13	3	785	135150	250	40 Sh
										135151	350	50 Sh
										135152	450	60 Sh
										135153	550	70 Sh
BSB 125	123	43	M-16	154	162	190	14	4	1109	135351	450	40 Sh
										135352	550	50 Sh
										135353	690	60 Sh
										135354	900	70 Sh
BSB 150 S.B.	156	49	M-16	125	132	164	14,5	4	2060	135371	750	40 Sh
										135372	950	50 Sh
										135373	1300	60 Sh
										135374	1650	70 Sh
BSB 150	156	49	M-16	176	188	218	14,5	4	1818	135361	750	40 Sh
										135362	950	50 Sh
										135363	1300	60 Sh
										135364	1650	70 Sh
BSB 160	156	57	M-20	140	140	170	14,5	4	2200	135381	900	40 Sh
										135382	1200	50 Sh
										135383	1600	60 Sh
										135384	2300	70 Sh
BSB 180	180	67	M-20	149	163	192	14,5	4	3800	135181	1300	40 Sh
										135184	1750	50 Sh
										135182	2100	60 Sh
										135183	2900	70 Sh
BSB 220	230	105	M-24	180	180	220	19	6	6716	135301	2500	40 Sh
										135302	3200	50 Sh
										135303	4000	60 Sh
										135304	5000	70 Sh

S.B. = Square Base

## MARINE CERTIFICATES





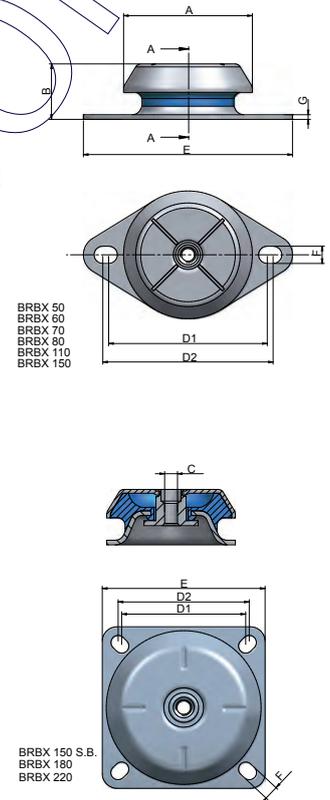
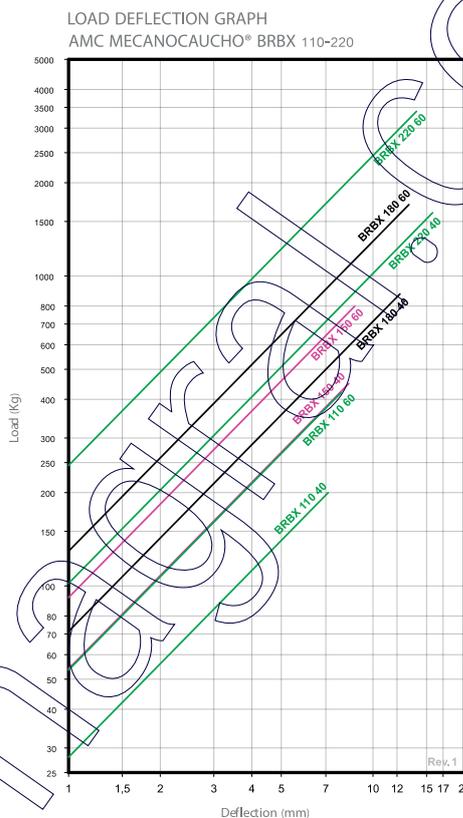
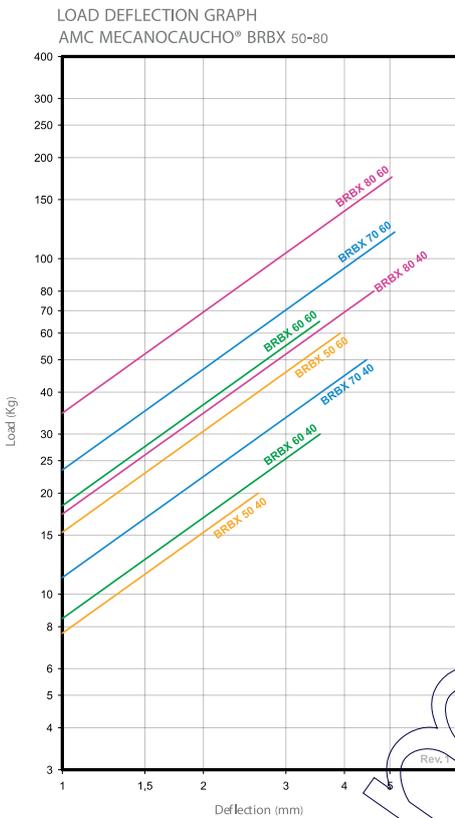
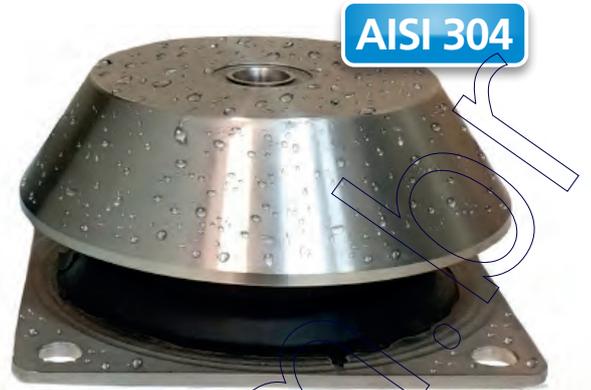
# BRBX



## APPLICATIONS

AMC Mecanocaucho® BRBX Captive anti vibration mounts are anti vibration elements which work the rubber in shear and compression. Their high profile rubber sections produce larger deflections, low natural frequencies. This range of mounts is suitable for applications where vibration isolation is a priority.

AMC Mecanocaucho® BRBX Captive mount is especially recommended for applications where vibration isolation is necessary, such as isolation of rotating or mobile machines that are continuously subjected to shocks, dripping oil or diesel or are exposed to the elements.



Type	A (mm)	B (mm)	C (mm)	D1 (Min.)	D2 (Max.)	E (mm)	F (mm)	G (mm)	Weight (gr.)	Load (kg)	Shore	Code
BRBX 50	50	25	M-8	61	70	85	6,5	2	117	20	40Sh	135969
										60	60Sh	135973
BRBX 60	64	35	M-10	76,5	90,5	110	9	2,5	225	30	40Sh	135687
										65	60Sh	135914
BRBX 70	64	35	M-12	100	100	120	11	3	253	50	40Sh	135935
										120	60Sh	135936
BRBX 80	83	35	M-12	108	112	135	11	3	398	80	40Sh	135956
										175	60Sh	135949
BRBX 110	106	41	M-12	137	149	175	13	3	857	200	40Sh	135735
										420	60Sh	135736
BRBX 150	156	53,5	M-16	176	188	218	14,5	4	1840	450	40Sh	135975
										800	60Sh	135984
BRBX 150 S.B.	156	53,5	M-16	125	132	164	14,5	4	2030	450	40Sh	135993
										800	60Sh	135994
BRBX 180	186	84	M-20	146	150	181	14	5	3800	875	40Sh	135396
										1700	60Sh	135466
BRBX 220	230	105	M-24	180	180	220	19	6	6716	1600	40Sh	135461
										3400	60Sh	135463

# BRT



## DESCRIPTION

AMC MECANOCAUCHO® BRT engine mounts are antivibration elements which work the rubber in shear and compression with an optimal ratio of stiffness and horizontal stability. These engine mounts are really applicable as stabilizers of electrical cabinets or racks. Thanks to the robust fail safe architecture it is useful in applications where the box type assembly is submitted to shocks.

## TECHNICAL CHARACTERISTICS

- The top metal hood protects the rubber from the Ozone, UV rays, diesel or oils which may cause major damage to the rubber.
- The metal parts have a suitable anticorrosive treatment for outdoor applications. RoHs compliant.
- They have an interlocking metal component that provides a fail-safe protection for mobile applications. This device limits vertical movement when the mounting is submitted to shock inputs.
- The mounts are clearly identified, as the baseplates are engraved with the type and hardness, which makes it possible to easily recognise the part even after several years of use.
- The hood has a cross stamped on the top, which enhances its stiffness on mobile applications and also improves the evacuation of oils or liquids that splash onto it.

## APPLICATIONS

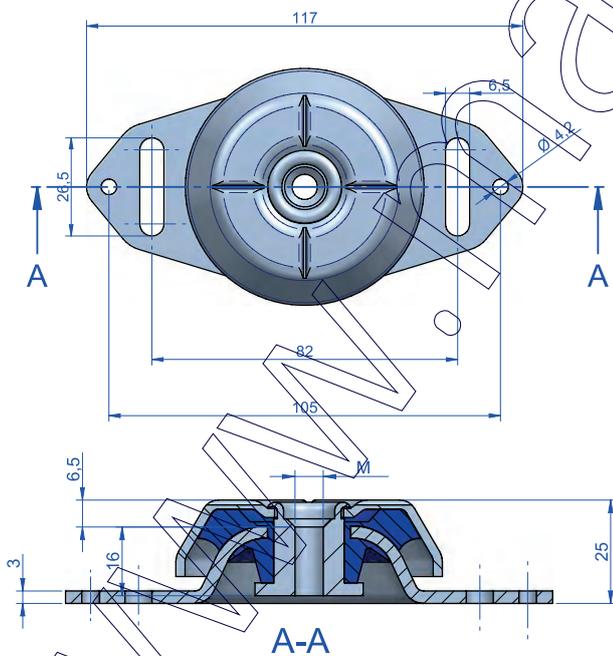
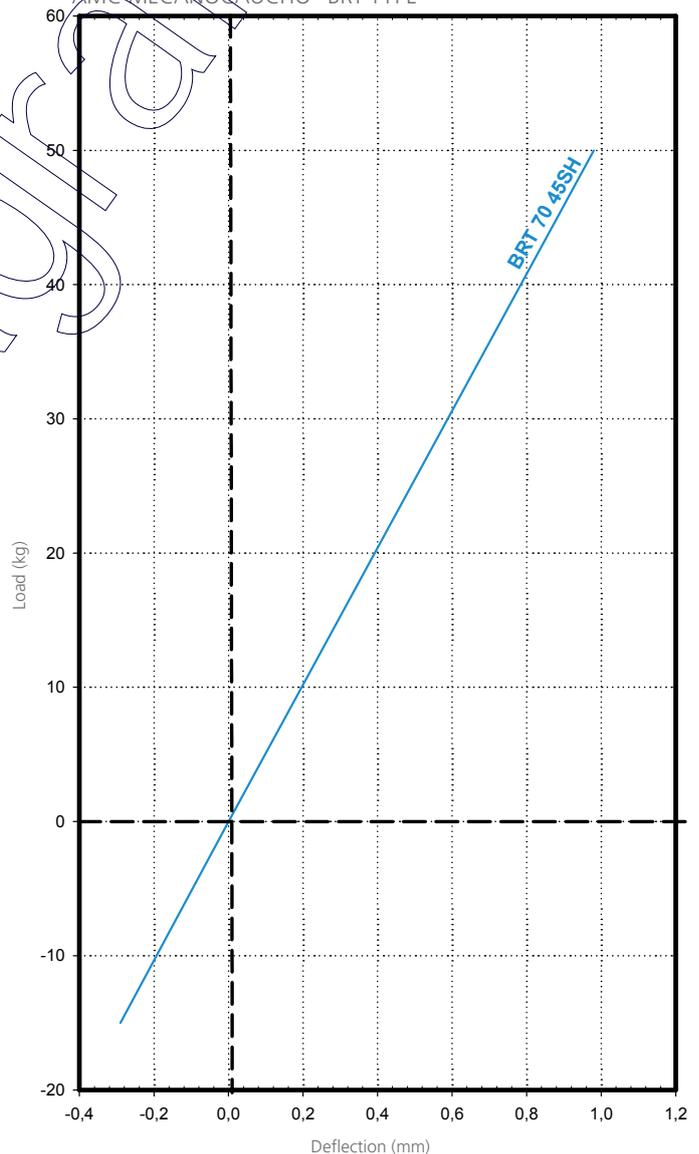
This mount is suitable for mobile boxes or racks that require greater control of movement due to axial and radial shock inputs providing reasonable values of vibration and noise attenuation, such as:

Electrical cabinets, Pumps, Marine-Land auxiliary units, Industrial Vehicles, Compressors, Ventilators...

This mount is suitable for the isolation of mobile rotating machines which are exposed to axial and radial shocks, dripping oil or diesel or exposure to weathering.



LOAD DEFLECTION GRAPH  
AMC MECANOCAUCHO® BRT TYPE



Type	Shore	Static Load max. daN	Dynamic Load max. daN	Code	M
BRT 70	45 Sh	50	150	135805	M-6
				135806	M-8
				135807	M-10



# MD

## DESCRIPTION

The AMC MECANOCAUCHO® MD-type mounts have similar architecture to the BSB and BRB. The advantage of this mount is that it is a high-damping elastic compound.

Its special mix affords it a high degree of antivibration isolation and offers great stability to suspended equipment.

## TECHNICAL CHARACTERISTICS

- The top metal cap protects the rubber section from possible diesel and oil splashes.
- It has an electrolytic coating that protects the metal parts against corrosion.
- The mounts have an interlocking metal component that provides fail-safe protection for mobile applications. This device limits vertical movement when the mounts are subjected to shock loads in transit.

## APPLICATIONS

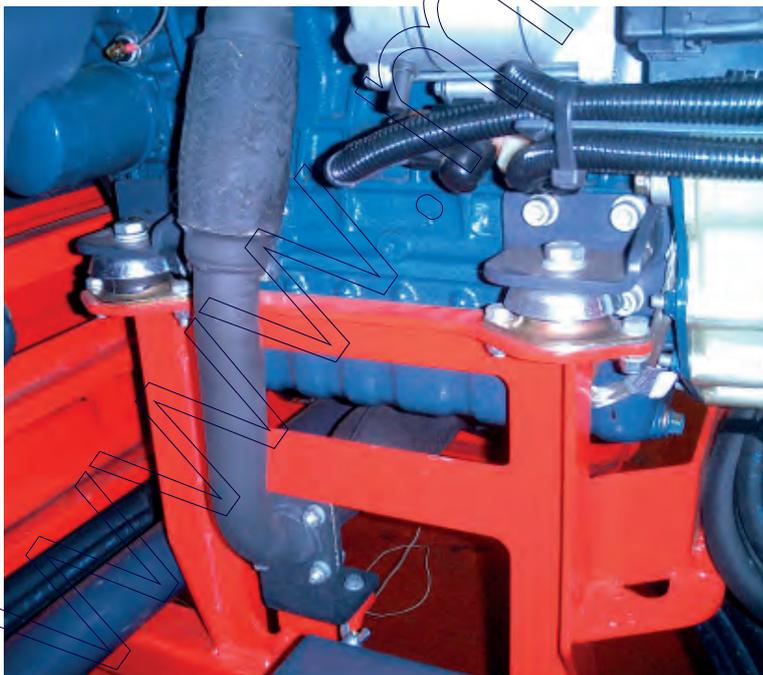
This mount has been specially designed to isolate engines that produce high-amplitude vibrations.

Engines from 1 to 3 cylinders used on - Motor Pumps, Gen Sets, Compressors, Ventilators...

## WHEN TO USE THEM?

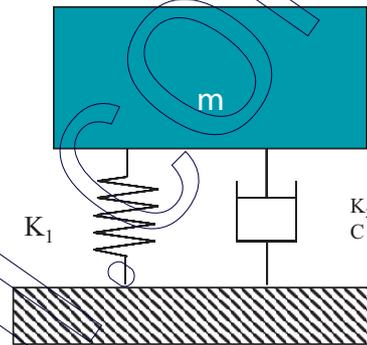
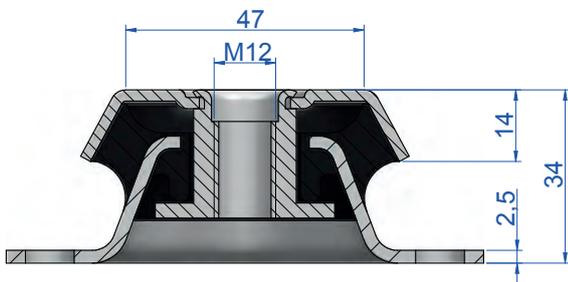
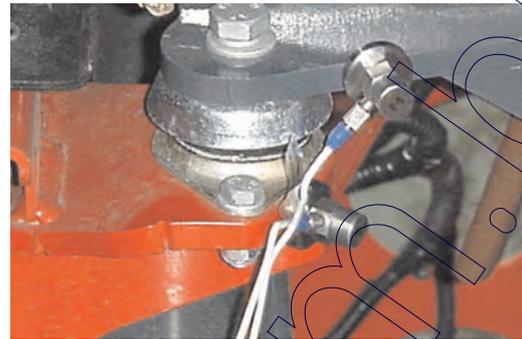
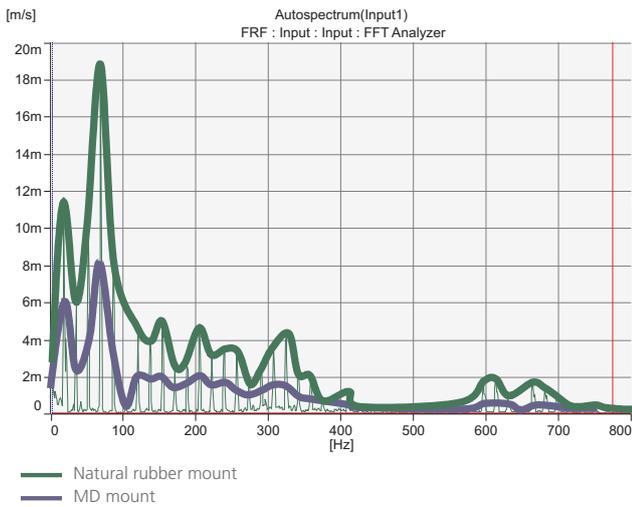
The AMC MECANOCAUCHO® MD-type mount has an anti-vibration mount function but also an engine stabilizer. It is used when conventional rubber-metal mounts do not guarantee sufficient stability to the engines. The MD mount can be installed on small 1, 2 and 3 cylinder engines, which are particularly unstable.

These mounts are suitable for the suspension of machines with multiple stops and starts, and for which the passage through the resonance zone requires a high degree of damping, or which work under regimes close to the resonance frequency of the system. Diesel engines require MD mounts, especially if they have few cylinders and a large diameter because the engine then creates high amplitude vibrations which can only be corrected with increased damping.



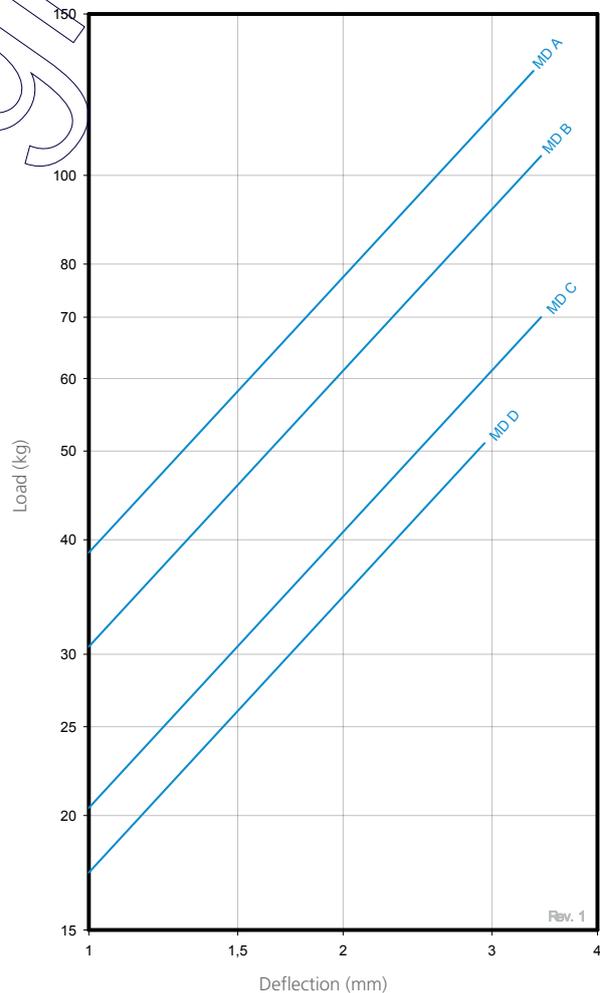
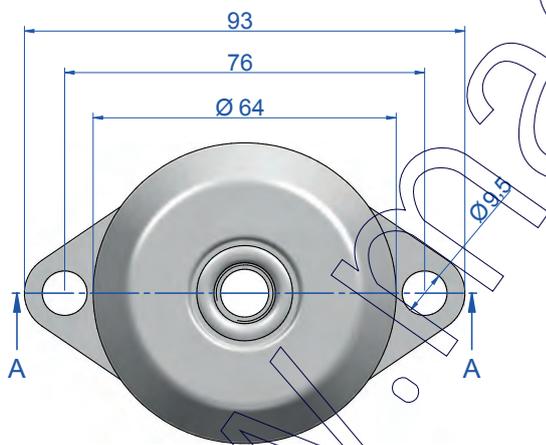
It is a very suitable mount for engines where it is not physically possible to install the antivibration mounts at the same height as the crankshaft.

VIBRATION LEVEL MEASURED IN THE ENGINE



$K_1$  = Main stiffness -  $K_2$  = Secondary stiffness  
 $C$  = Damping coefficient -  $m$  = Mass

LOAD DEFLECTION GRAPH  
MECANOCAUCHO® MD TYPE



Type	Load (kg)	Weight (gr.)	Code
A	130	238	135210
B	105	238	135212
C	70	238	135213
D	50	238	135219



# MARINE MOUNTS

## DESCRIPTION

The Marine-type AMC MECANOCAUCHO® mounts are ideal for mobile applications thanks to their rugged architecture.

Their special design offers different stiffnesses on the three axes, they are antivibration mounts with great vertical elasticity, great longitudinal stiffness and optimal lateral stiffness to offer extra isolation on this axis.

## TECHNICAL CHARACTERISTICS

- The top part of the hood has a cross-shaped stamp, which improves its stiffness in mobile applications and also improves the evacuation of oils or liquid which splash onto it.
- The metal parts have an anticorrosive treatment which is suitable for outdoor applications. RoHs compliant.
- The mounts are clearly identified, as the bases are engraved with the type and hardness.
- They 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 top part protects the elastomer inside from possible dripping oil, diesel, ozone and ultraviolet emissions that may cause major damage to the rubber.
- The different stiffnesses for each axis make it possible to offer major flexibility in the direction perpendicular to the crankshaft/shaft of the motor. This provides more effective isolation from vibrations of all types of engines.
- For marine engine applications, contact the AMC- MECANOCAUCHO® technical department.

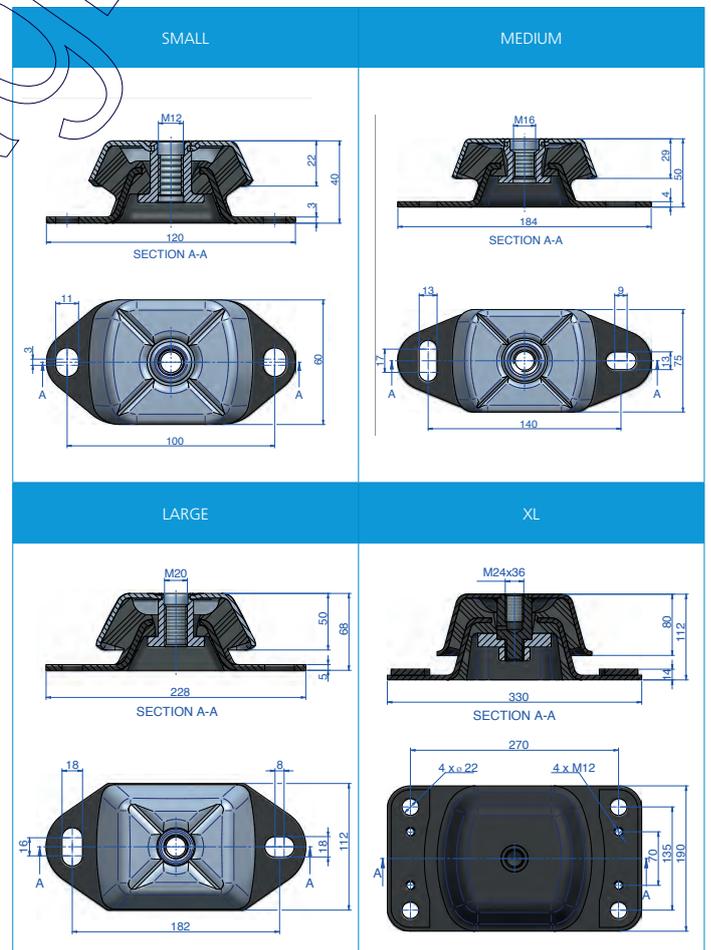
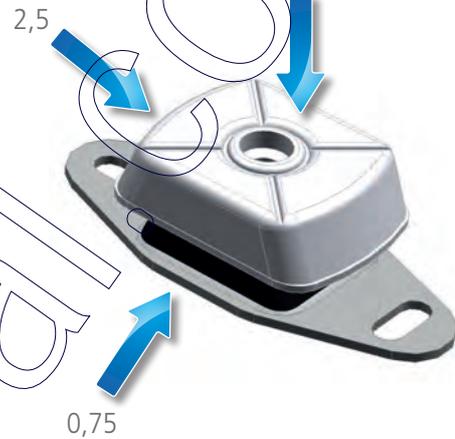
## APPLICATIONS

In mobile rotating machines that need a major isolation capacity from vibrations and noises, such as:

- Pumps
- Marine-Land units
- Mobile electrical panels
- Industrial vehicles
- Compressors
- Ventilators
- Marine Propellers



Stiffness rates per axis.



## MARINE CERTIFICATES

BV

ABS

DNV

LLOYD'S



# MARINE MOUNT

Type	Weight (gr.)	Code	Load (kg)	Shore
SMALL	397	136001	35	40 Sh
		136002	45	45 Sh
		136003	70	55 Sh
		136004	95	65 Sh
		136005	110	75 Sh
MEDIUM	857	136021	95	35 Sh
		136022	120	45 Sh
		136023	220	55 Sh
		136024	280	65 Sh
		136025	400	75 Sh
LARGE	2250	136041	350	45 Sh
		136042	525	55 Sh
		136043	800	65 Sh
		136044	1080	75 Sh
XL	9600	136061	950	40 Sh
		136062	1400	50 Sh
		136063	2200	60 Sh
		136064	3000	70 Sh



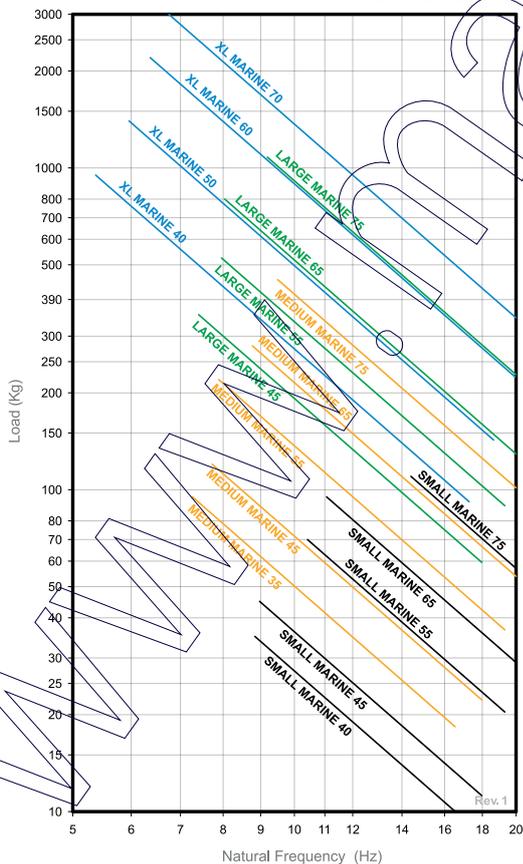
AISI 304



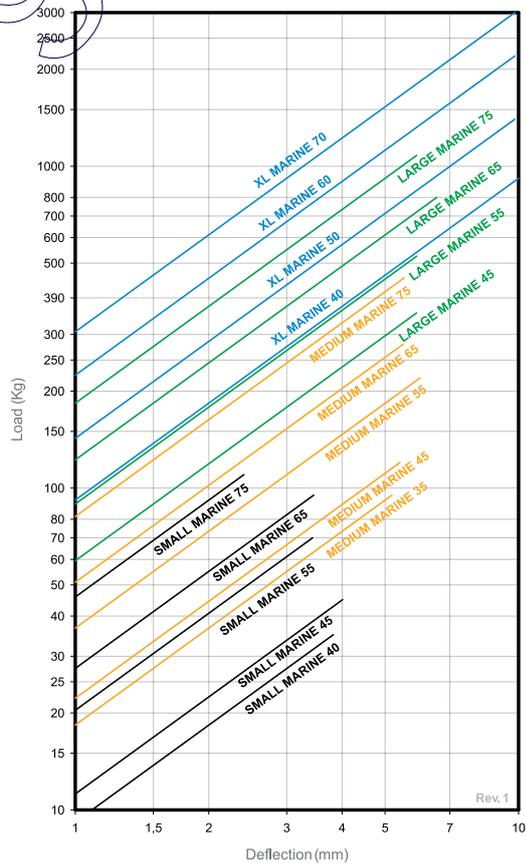
# MARINE X MOUNT

Type	Weight (gr.)	Code	Load (kg)	Shore
SMALL INOX	397	136216	45	45 Sh
		136220	70	55 Sh
		136217	95	65 Sh
		136269	120	45 Sh
MEDIUM INOX	857	136277	220	55 Sh
		136270	280	65 Sh

NATURAL FREQUENCY GRAPHS  
AMC MECANOCAUCHO® MARINE ENGINE MOUNT



LOAD DEFLECTION GRAPHS  
AMC MECANOCAUCHO® MARINE ENGINE MOUNT



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

# MARINE MOUNT TYPE XD

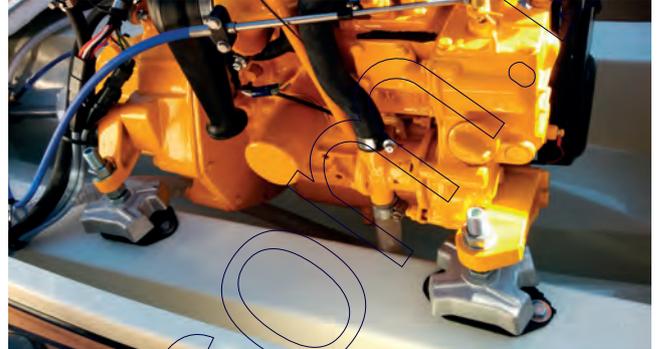
## DESCRIPTION

The XD Marine type AMC-MECANOCAUCHO® mounts are ideal for mobile applications where a higher degree of isolation is required.

Its specific design allows lower vertical and radial stiffness rates. This feature is particularly useful on those applications where a high vibration isolation rate is required even if the machine runs at low idle speeds. The metal parts are robust and incorporate a fail-safe device in order to resist traction forces.

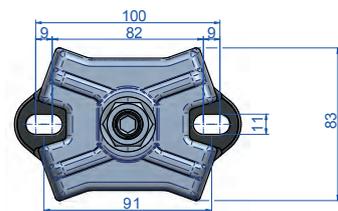
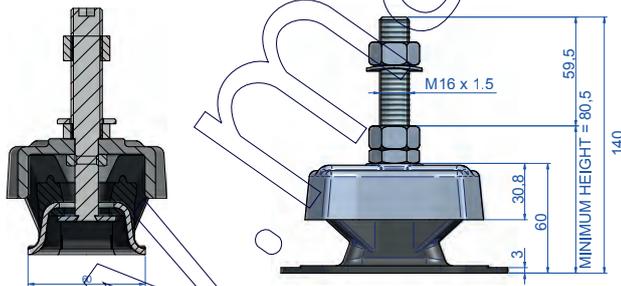
## TECHNICAL CHARACTERISTICS

- The cast aluminum bell has been designed to withstand to great dynamic shocks while the rubber compound is guided in order to avoid relative displacements.
- The rubberized baseplate and the aluminum top cap provide a higher resistance to marine corrosive environments, improving the performance of traditional marine antivibration mounts.
- The mounts have a clear identification of rubber hardness on the baseplate.
- The rubber compound is protected against oil contamination, O3 and UV rays.
- The failsafe device avoids rubber working at traction and limits the vertical ascendant movement.
- The different stiffness rates per axis, allow low roll natural frequencies of the system. This feature provides a higher vibration isolation degree on engines. The fact of having a lower vertical stiffness perfectly suits 3 cylinder engines working at low idle speeds.
- The higher longitudinal stiffness allows the mount to withstand thrust forces. This feature provides stability and reduces longitudinal movements of the engine. For marine application installations, please contact the technical department of AMC-MECANOCAUCHO®.
- Maximum leveling: 3 mm. For further leveling, we recommend to use shims.



Example of installation on a 3cyl engine

SECTION A-A



Type	Weight (gr)	Shore	Load kg max.	Code
MARINE MOUNT type XD	655	40 Sh	40	136151
		50 Sh	60	136152
		60 Sh	75	136153
		70 Sh	100	136154

# MARINE MOUNT TYPE XT



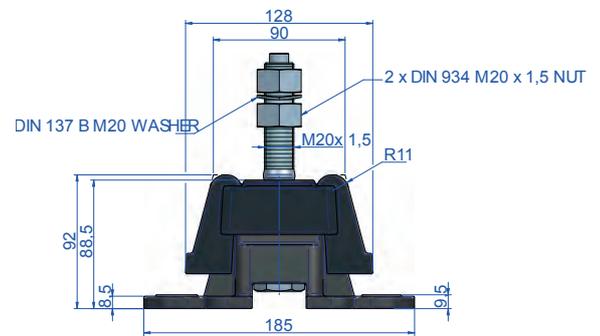
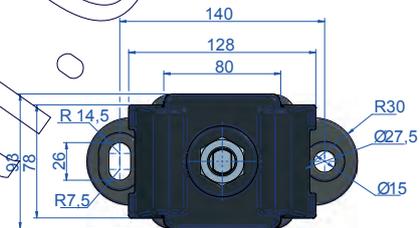
## DESCRIPTION

The AMC Mecanocaucho® MARINE XT Captive anti vibration mounts are anti vibration elements which work the rubber in both shear and compression. Their design has been tailored to provide a specific stiffness in each axis, a key benefit is providing a reduced roll natural frequency for engine installations.

The AMC Mecanocaucho® MARINE XT Captive mount is especially recommended for harsh applications where vibration isolation is a crucial factor, such as the isolation of rotating or mobile machines that are continuously subjected to shock forces. A high level of corrosion resistance is achieved which ensures protection from substances such as dripping oil/diesel and also in applications where there is exposure to the elements. Furthermore, thanks to their high stiffness in one of its directions, excellent results can be achieved for applications in which the thrust from the engine is high.

## TECHNICAL CHARACTERISTICS

- AMC-MECANOCAUCHO® Marine XT anti vibration mounts have a special design that provides 3 different stiffness values in the 3 different directions, the highest being the one in the longitudinal direction. This design allows the mounts to face high longitudinal loads (thrust loads produced by marine engines) while their low lateral and vertical stiffness values allow them to keep a high isolation level against the main excitations from the crankshaft of the engine (which occurs at the plane with the lowest stiffness values of the mount).
- The top metal hood protects the rubber from the Ozone, UV rays, diesel or oils which could damage the rubber.
- The metal parts have a suitable anticorrosive treatment for outdoor applications. RoHs compliant.
- They have an interlocking metal component that provides a fail safe protection for mobile applications. This device limits vertical movement when the mounting is submitted to shock inputs.
- The mounts are clearly identified, the baseplates are engraved with the type and hardness making it possible to easily recognize the part even after several years of use.
- Maximum leveling: 3 mm. For further leveling, we recommend to use shims.



Type	Weight (gr)	Shore	Load kg max.	Code
MARINE MOUNT type XT	4659	35 Sh	150	136330
		45 Sh	225	136331
		55 Sh	350	136332
		65 Sh	500	136333

# 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

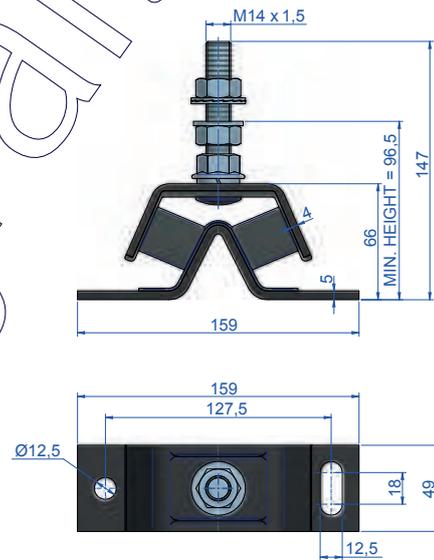
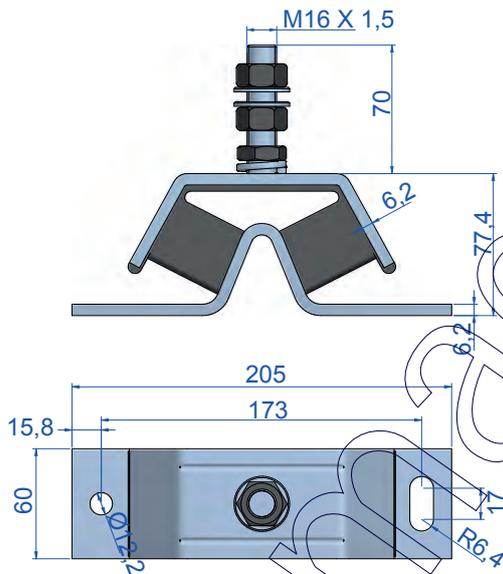
The AMC MECANOCAUCHO® V-shaped marine mount has a V-shaped design providing high deflections for relatively low loads. This means that the natural frequency is low and ideal for engines which normally work at iddle speed.

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

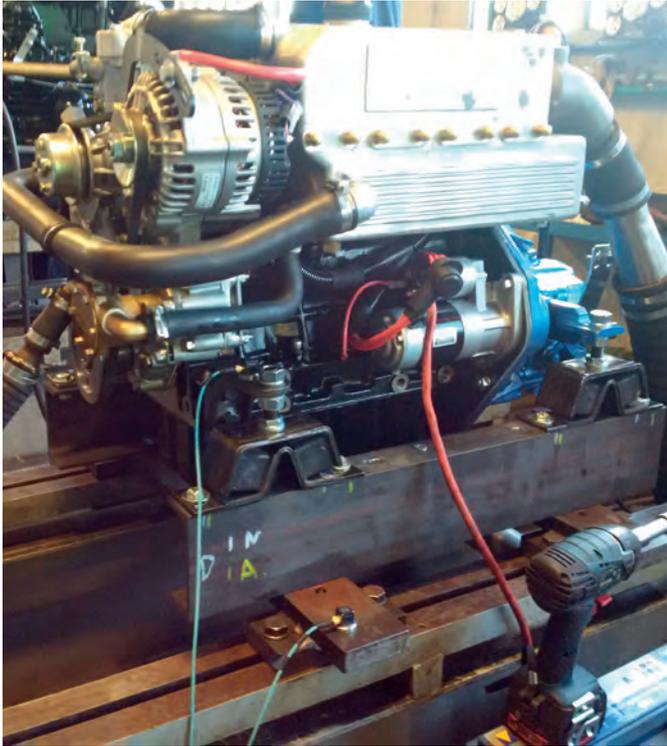
## APPLICATIONS

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.

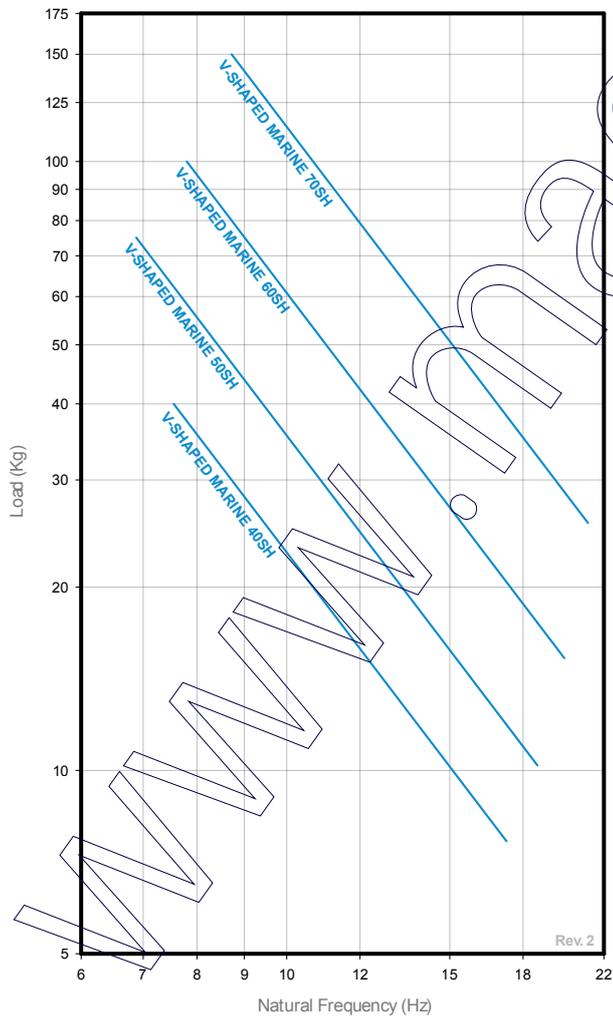
Small vehicle or machines, small and medium sized gensets, marine engines,...



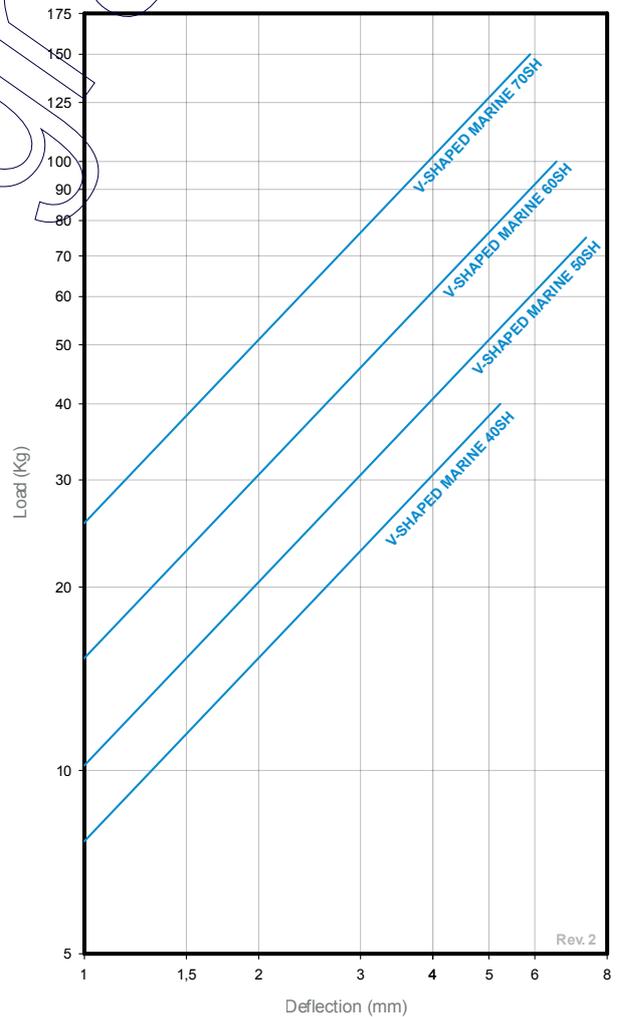
Type	Weight (gr.)	Code	Descrip.	Load (kg)	Shore
V-shaped marine	1720	148001	75	40	40 Sh
		148003	100	75	50 Sh
		148004	150	100	60 Sh
		148006	200	150	70 Sh
Small V-shaped marine	925	136279	50	40	
		136338	70	40	



NATURAL FREQUENCY  
AMC MECANOCAUCHO® V-SHAPED MARINE MOUNT



LOAD DEFLECTION GRAPH  
AMC MECANOCAUCHO® V-SHAPED MARINE MOUNT

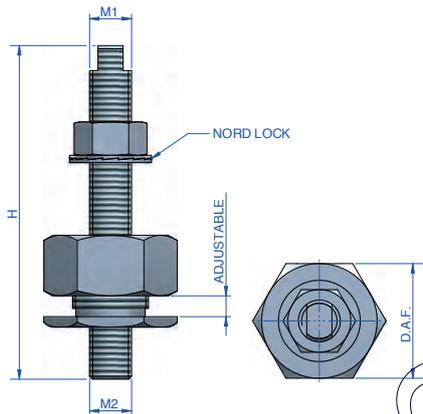
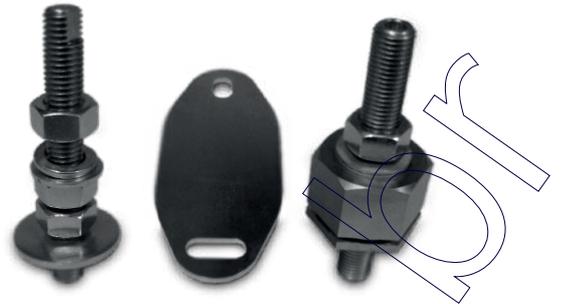


# HEIGHT ADJUSTING SYSTEMS

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

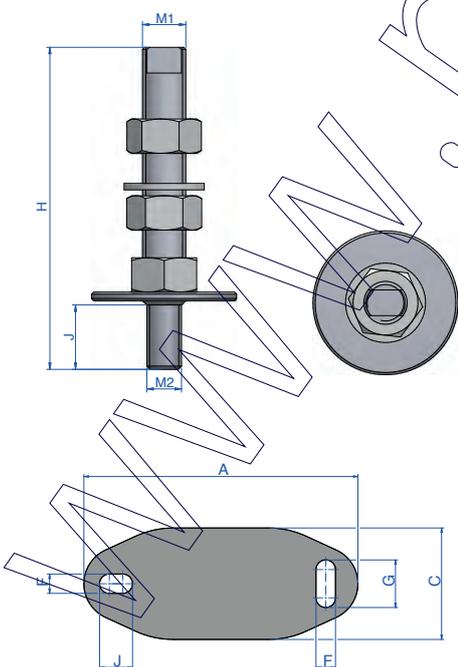
Type	Code	H (mm)	M1	M2	Adjustable (mm)	Machined head	D.A.F.	Weight (gr.)
HI-SEC	708077	110	M16	M12	± 5	Y	46	357
	708007	110	M16	M16	± 5	Y	46	514
	708094	130	M20	M20	± 5	N	46	775
	708079	110	M20	M16	± 10	Y	55	1095
	708029	160	M20	M20	± 10	Y	55	1011
	708005	160	M20	M20	± 10	N	55	1096
	708011	200	M24	M24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

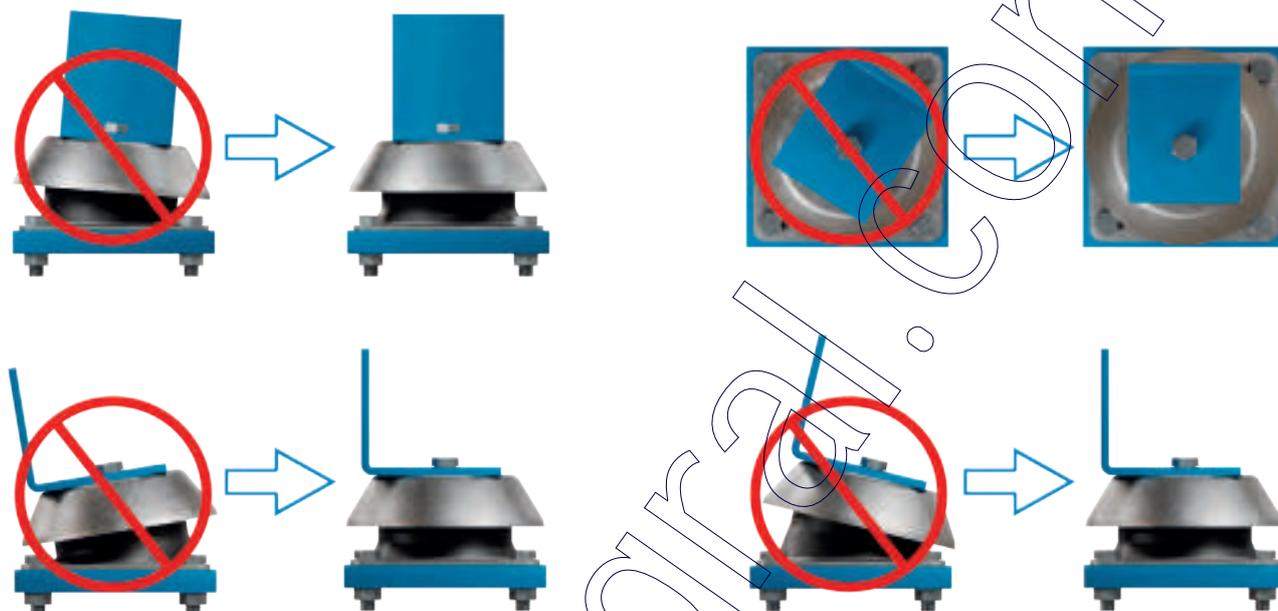


# INSTALLATION PRINCIPLES

## RECOMMENDATIONS FOR HOOD MOUNTS

The hood mounts should 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 Mecnodamp mounts.

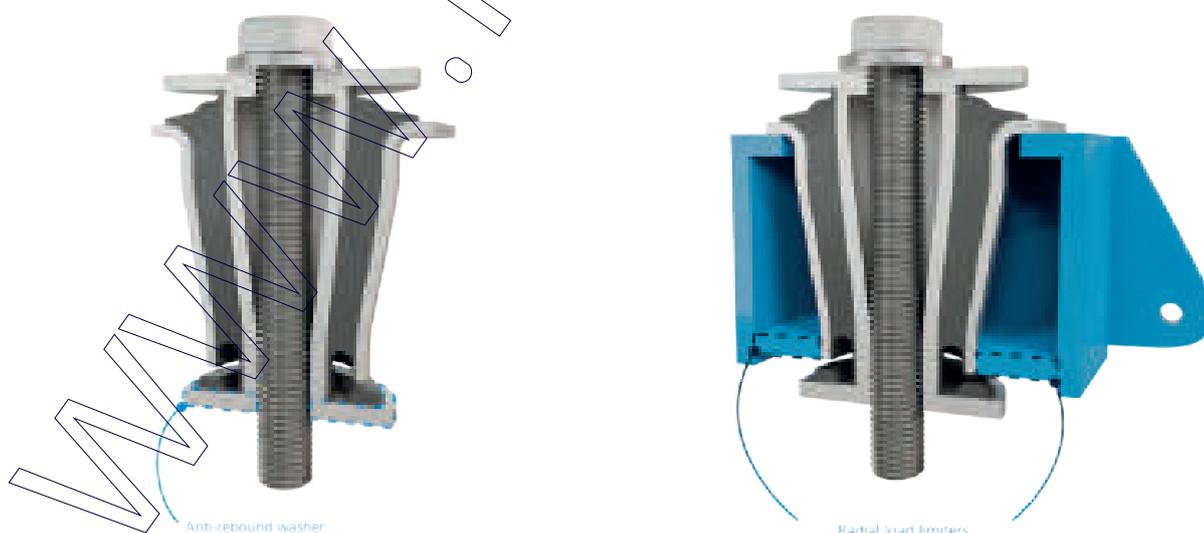


## RECOMMENDATIONS FOR THE CONICAL MOUNTS

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 Mecanotaucho® 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.



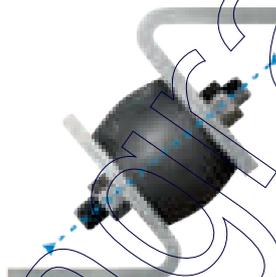
**RECOMMENDATIONS FOR THE CYLINDRICAL MOUNTS**

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.

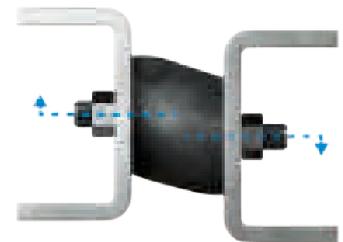
This applies to our bobbins, diabolos, trapezoidal or annular mounts.



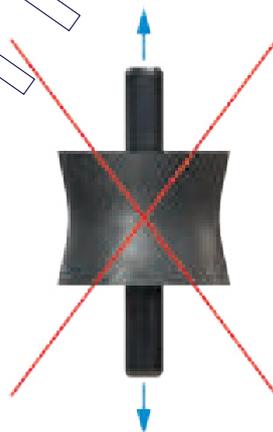
Compression



Compression-shear



Shear



**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.

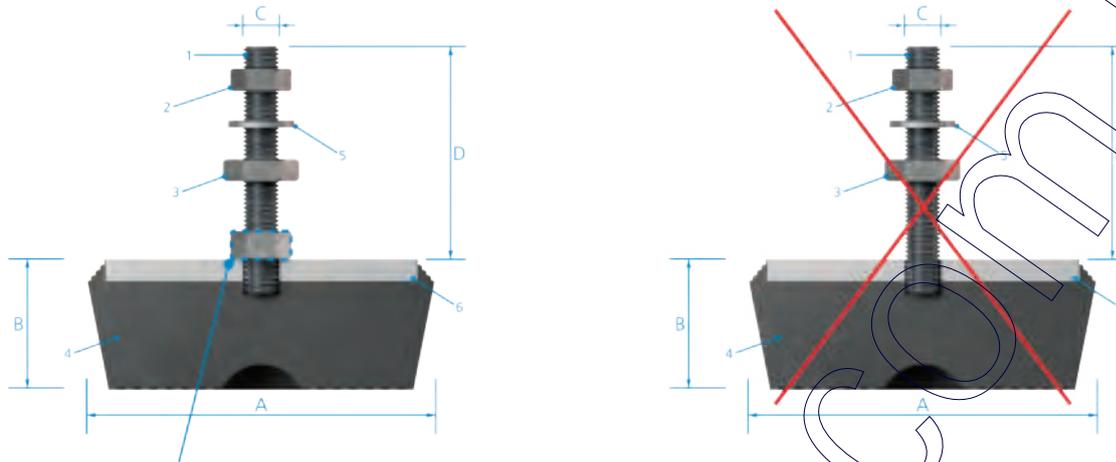
Alignment should therefore be checked 48 hours after the installation of the machine.

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:

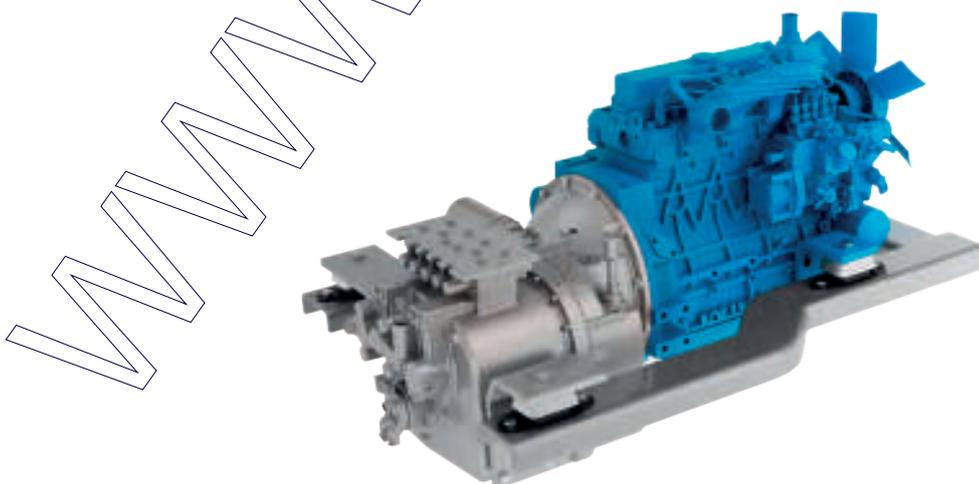
	M8	M10	M12	M16	M20	M24
Tightening torque Nm	16	32	55	125	190	285

**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

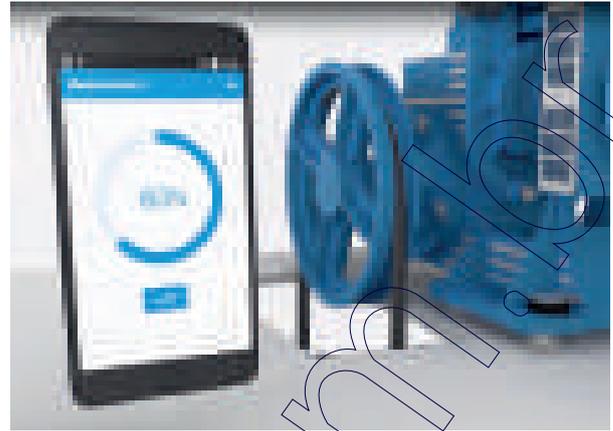
AMC MECANOCAUCHO® Bluetooth Accelerometer has been developed to work in conjunction with the AMC MECANOCAUCHO® free of cost app Vibration Isolator Pro for Android and iOS.

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 bandwidth
- Low noise
- iOS and Android compatible

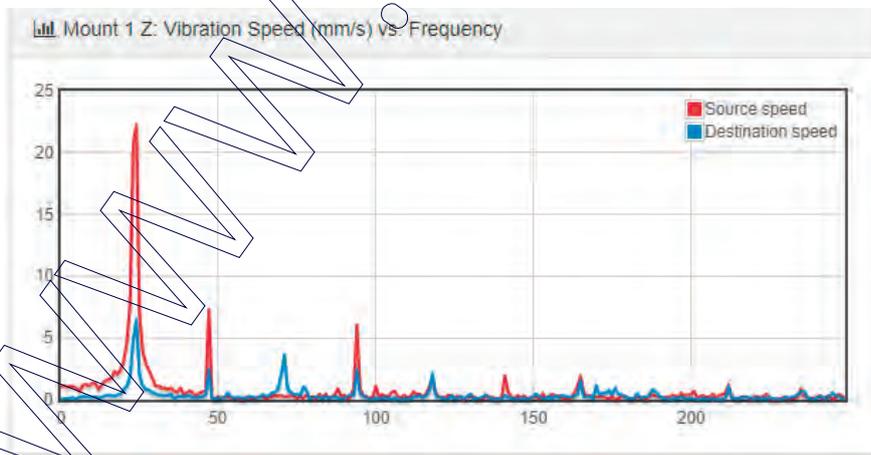


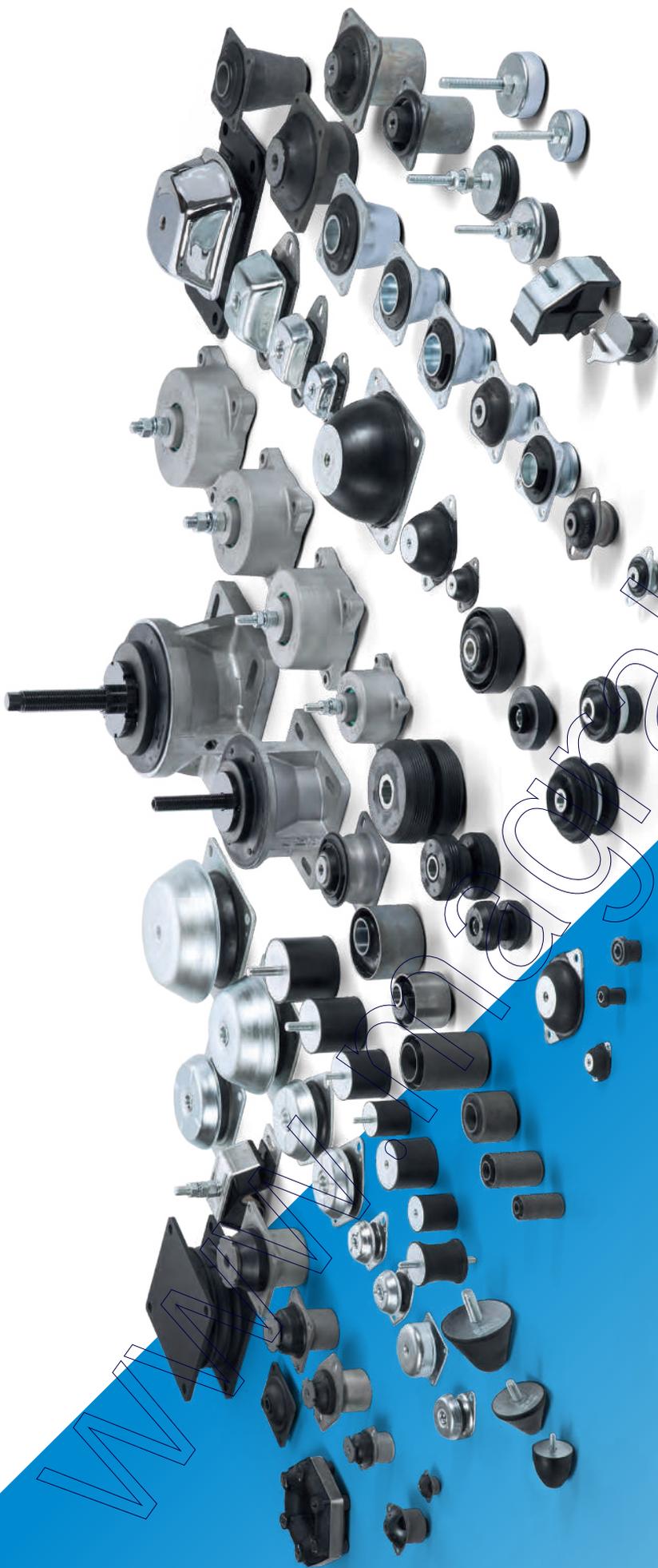
## QUICK GUIDE



## 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 60°C
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.