

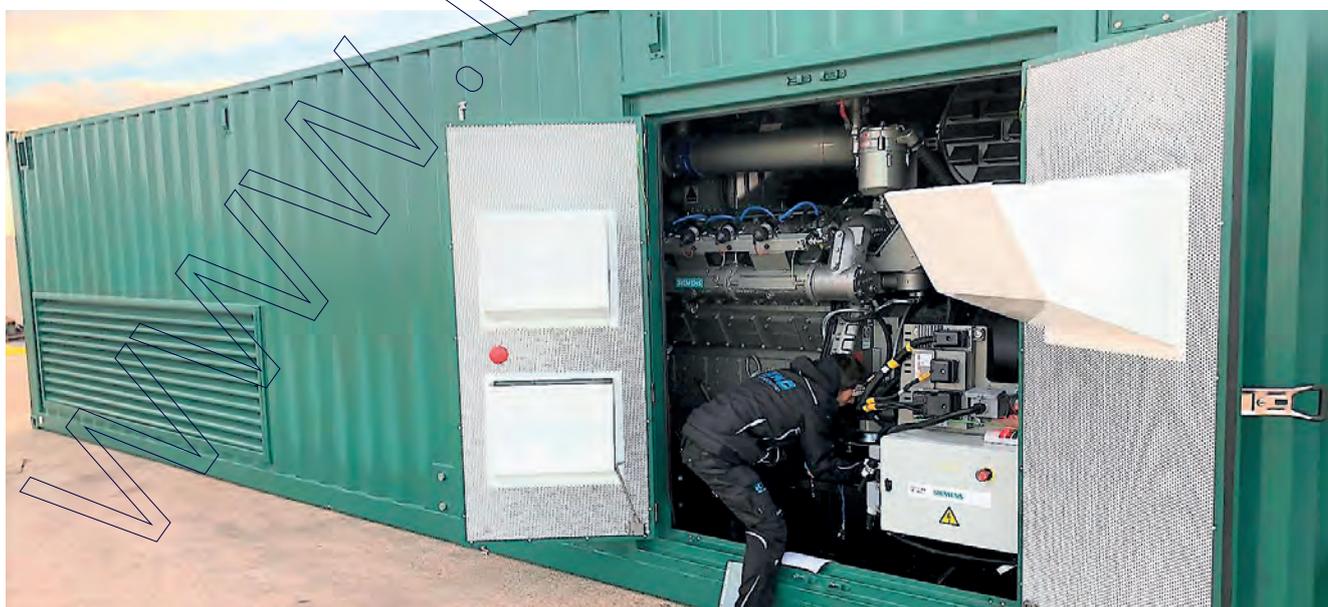
RUBBER METAL

Anti vibration mounts
AMC MECANOCAUCHO®

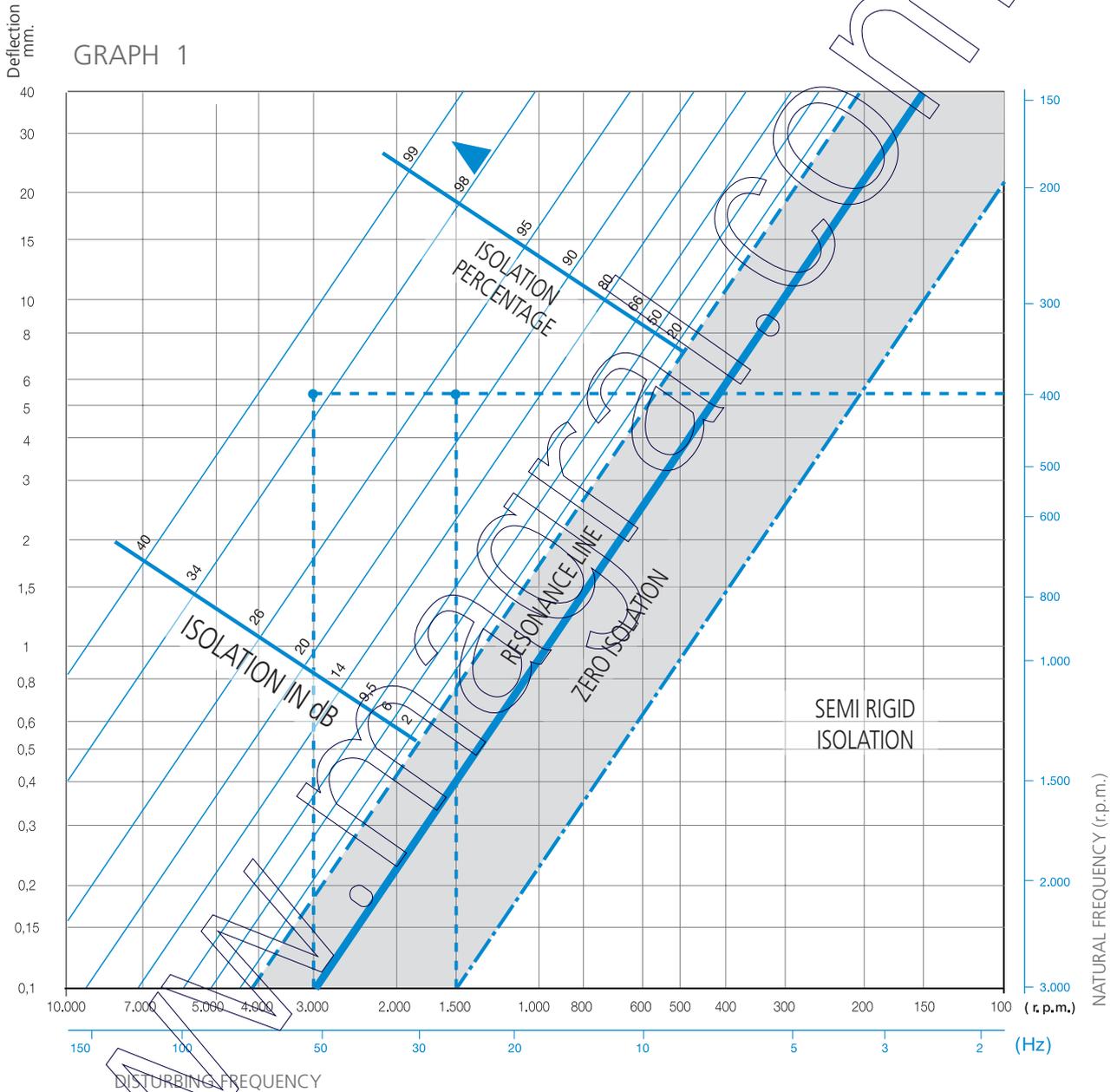
APPLICATIONS

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								

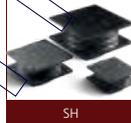
STATIC APPLICATIONS: ENGINES, GENERATORS, HYDRAULIC PUMPS AND COMPRESSORS

 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
--	--

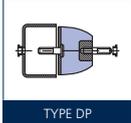
MOUNTS FOR HEAVY LOADS

 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
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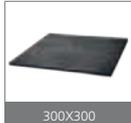
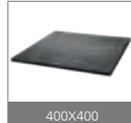
MACHINE LEVELLING MOUNTS

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

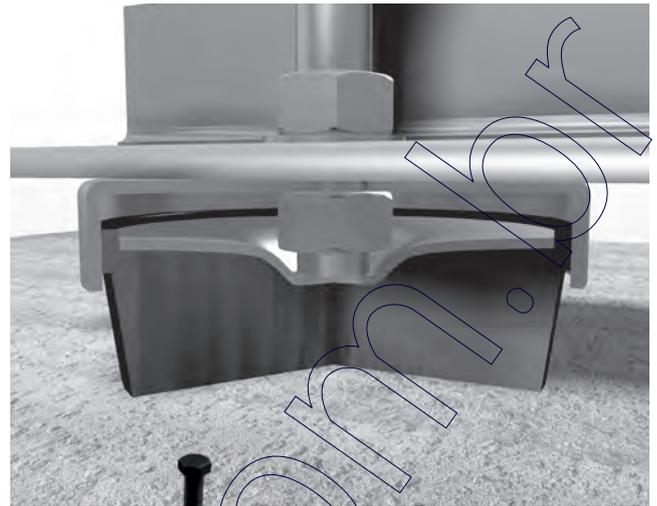
NF LEVELLING MACHINE MOUNTS

The N.F.-type AMC MECANOCAUCHO® mounts are used in cases where light or heavy machines should not be fixed to the floor or ground.

The height adjustment system can be used to adjust the machines to the required level, thus insulating from vibrations and reducing noise. The AMC MECANOCAUCHO® type NF comes with a tilting system allowing optimum adaptation to all surfaces.

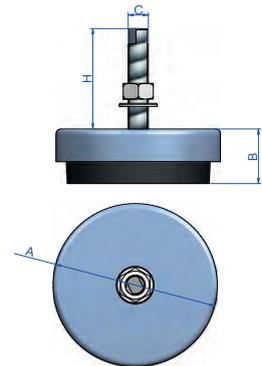
The elastomer used is a mixture of oil-resistant synthetic Nitrile Butadiene Rubber (NBR).

Height is adjusted by means of a screw, although this operation can even be performed once the machine has been assembled. The wide contact between the base of the machine guarantees good overall stability.



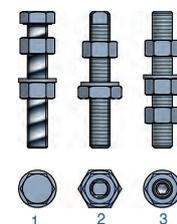
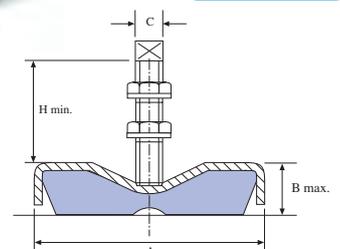
AMC MECANOCAUCHO® TYPE NF

Type	A (mm)	B mm Min	B mm Max	B mm adjustment	Static load Nominal kg	Deflection (mm)	Weight (gr.)	Code	C	H Min (mm)	H Max (mm)	Fig.
NF-65	65	27	34	7	320	2	349	142001	M-12x1,75	105	110	1
								142017	M-12x1,75	78	85	2
NF-85	85	33	46	13	650	2	732	142002	M-16x2	114	127	1
								142018	M-16x2	82	95	2
NF-100	100	35	48	13	980	2	960	142003	M-16x2	120	130	1
								142019	M-16x2	82	95	2
NF-130	130	45	58	13	2500	3	1675	142004	M-20x2,5	130	140	1
								142023	M-16x1,5	67	80	2
								142028	M-16x1,5	99	112	2
								142095	M-20x2,5	130	140	1
NF-160	160	53	66	13	4000	3	3397	142024	M-20x1,5	62	75	2
								142026	M-20x1,5	135	145	2
								142005	M-24x3	158	176	1
								142025	M-24x1,5	158	176	2
NF-200	200	55	68	13	5000	3	4958	142027	M-24x1,5	81	94	2
								142007	M-30x2	153	176	1
NF-250	250	67	85	18	7000	3	8575	142007	M-30x2	153	176	1



AMC MECANOCAUCHO® TYPE NFR

Type	A (mm)	B (mm)	C (mm)	H mm Min	Static load Nominal kg	Deflection mm	Fig.	Code	Weight (gr.)
NFR-85	85	33	M-16	100	650	2	2	142009	713
NFR-100	100	35	M-16	100	980	2	2	142010	929
NFR-130	130	45	M-20	130	1350	3	3	142011	1832
NFR-160	160	53	M-20	130	2500	3	3	142012	3330
NFR-200	200	55	M-24	140	3700	3	1	142013	4924



SV

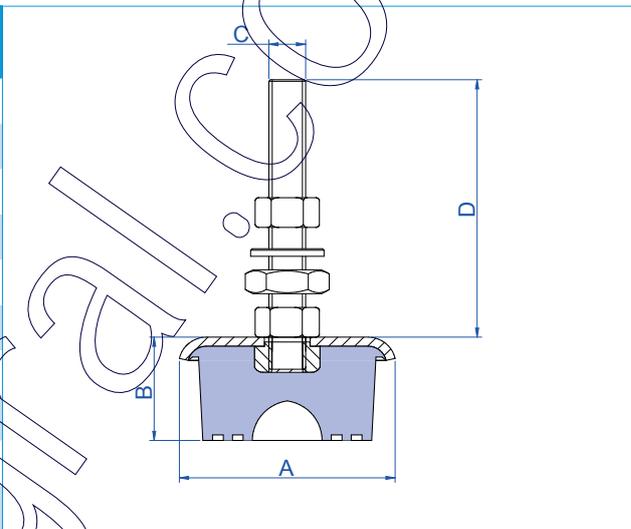


APPLICATIONS

The SV-type AMC MECANOCAUCHO® mounts are used in cases where light or heavy machines are not fixed to the floor or ground. The height adjustment system can be used to adjust the machines to the required level, thus insulating areas nearby from vibrations and reducing noise.



Type	A (mm)	B (mm)	C (mm)	D (mm)	Load kg min.	Load kg max.	Code	Weight (gr.)
000	45	23	M-8	48	20	80	143001	91
00	60	28	M-10	81	60	120	143002	235
0	70	34	M-12	89	90	160	143003	350
1	85	32	M-12	89	130	350	143004	456
2	100	40	M-14	109	270	600	143005	702
3	120	37	M-16	116	450	900	143006	954
4	140	55	M-16	116	700	1200	143007	1513
5	160	60	M-16	116	1100	1750	143008	1855
6	180	70	M-24	138	1500	2500	143009	3034
7	210	75	M-24	138	2100	3750	143010	4248



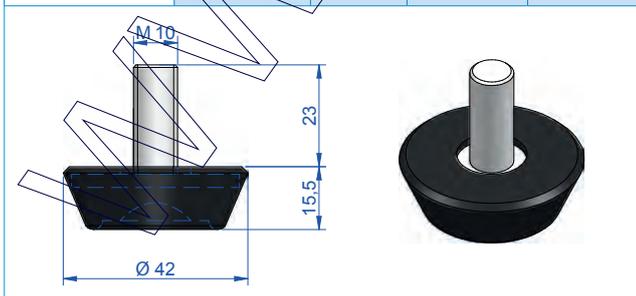
* Can be supplied in stainless steel.

AMC MECANOCAUCHO® TYPE JT



APPLICATIONS: Levelling machine mounts

Type	Code	Load (kg)	Weight (gr.)	Shore
JT Type	144001	25-40	53	50 Sh
	144002	75-100	53	75 Sh

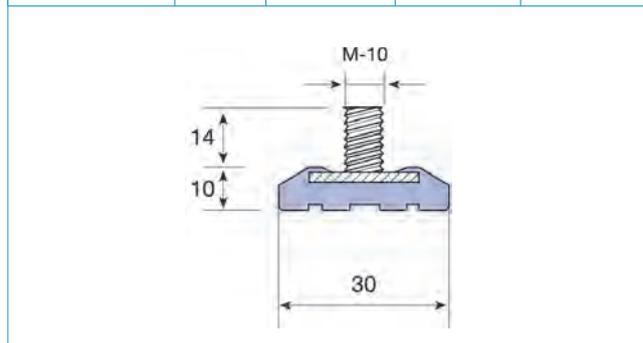


AMC MECANOCAUCHO® TYPE SX



APPLICATIONS: Levelling machine mounts

Type	Shore	Code	Load (kg)	Weight (gr.)
SX Type	50 Sh	145001	10-25	25



LOW SV

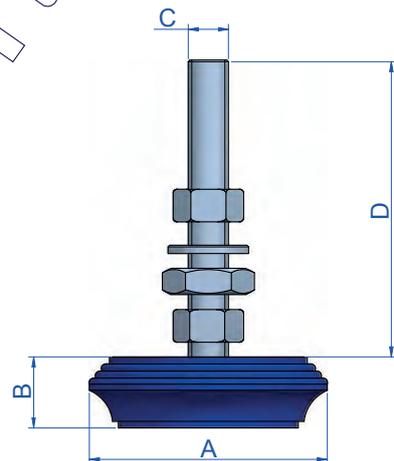


APPLICATIONS

The LOW SV-type AMC MECANOCAUCHO® anti vibration mounts are used in cases where light or heavy machines are not fixed to the floor or ground. The height adjustment system can be used to adjust the machines to the required level, thus insulating areas nearby from vibrations and reducing noise.



Type	A (mm)	B (mm)	C (mm)	D (mm)	Load kg min.	Load kg max.	Code	Weight (gr.)
000 B	43	16	M-8	45	40	80	147000	257
00 B	60	18	M-10	81	60	120	147001	334
0 B	70	20	M-12	89	90	160	147002	286
1 B	84	25	M-12	88	130	350	147003	382
2 B	100	20	M-14	109	270	600	147004	574
3 B	120	25	M-16	116	450	900	147005	867
4 B	140	33	M-16	116	700	1200	147006	1300
5 B	160	36	M-16	116	1100	1750	147007	1556
00 B STAINLESS STEEL	60	18	M-10	81	60	120	147014	334
0 B STAINLESS STEEL	70	20	M-12	89	90	160	147013	286
1 B STAINLESS STEEL	85	25	M-12	89	130	350	147012	382
2 B STAINLESS STEEL	100	20	M-14	109	270	600	147015	574
3 B STAINLESS STEEL	120	25	M-16	116	450	900	147011	867
4 B STAINLESS STEEL	140	33	M-16	116	700	1200	147016	1300
5 B STAINLESS STEEL	160	36	M-16	116	1100	1750	147017	1556

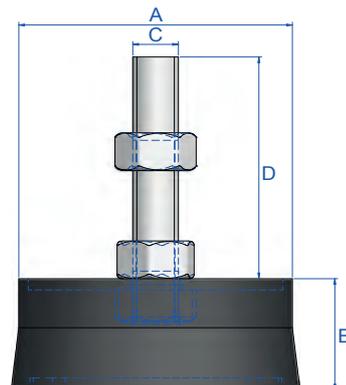


AMC MECANOCAUCHO® TYPE SM

APPLICATIONS: Levelling machine mounts.



Type	A (mm)	B (mm)	C (mm)	D (mm)	Load kg max.	Code	Weight (gr.)
S.M.-40	40	18	M-8	48	45	146001	79
S.M.-60	65	28	M-12	89	150	146002	307
S.M.-70	75	29	M-12	89	250	146003	363
S.M.-90	95	30	M-12	89	500	146004	573
S.M.-120	125	31	M-16	116	1000	146005	904

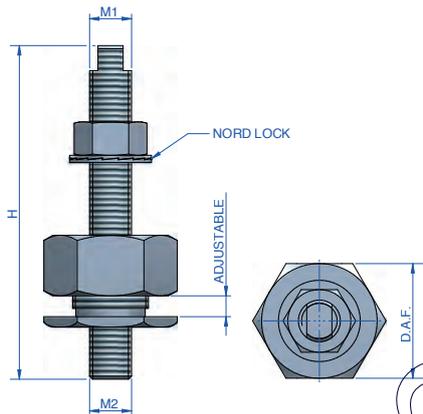


HEIGHT ADJUSTING SYSTEMS

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

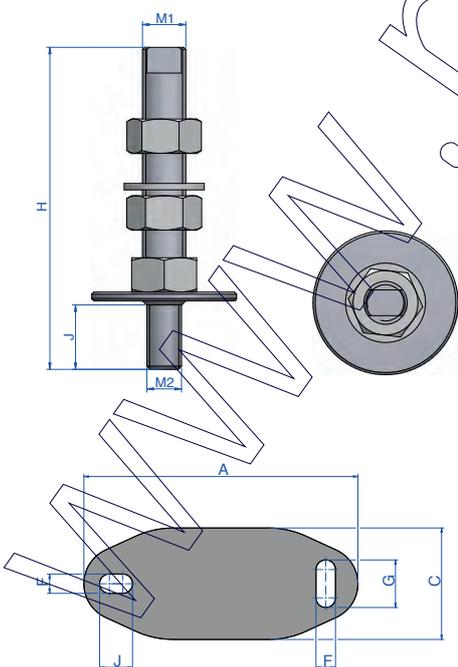
Type	Code	H (mm)	M1	M2	Adjustable (mm)	Machined head	D.A.F.	Weight (gr.)
HI-SEC	708077	110	M16	M12	± 5	Y	46	357
	708007	110	M16	M16	± 5	Y	46	514
	708094	130	M20	M20	± 5	N	46	775
	708079	110	M20	M16	± 10	Y	55	1095
	708029	160	M20	M20	± 10	Y	55	1011
	708005	160	M20	M20	± 10	N	55	1096
	708011	200	M24	M24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

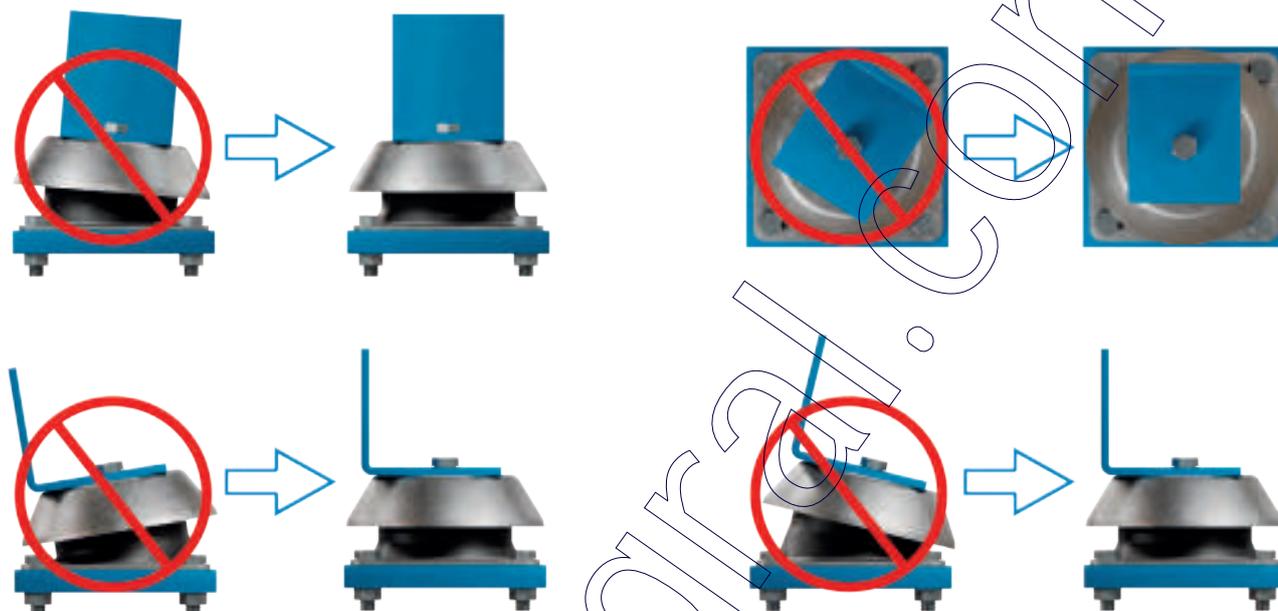


INSTALLATION PRINCIPLES

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.

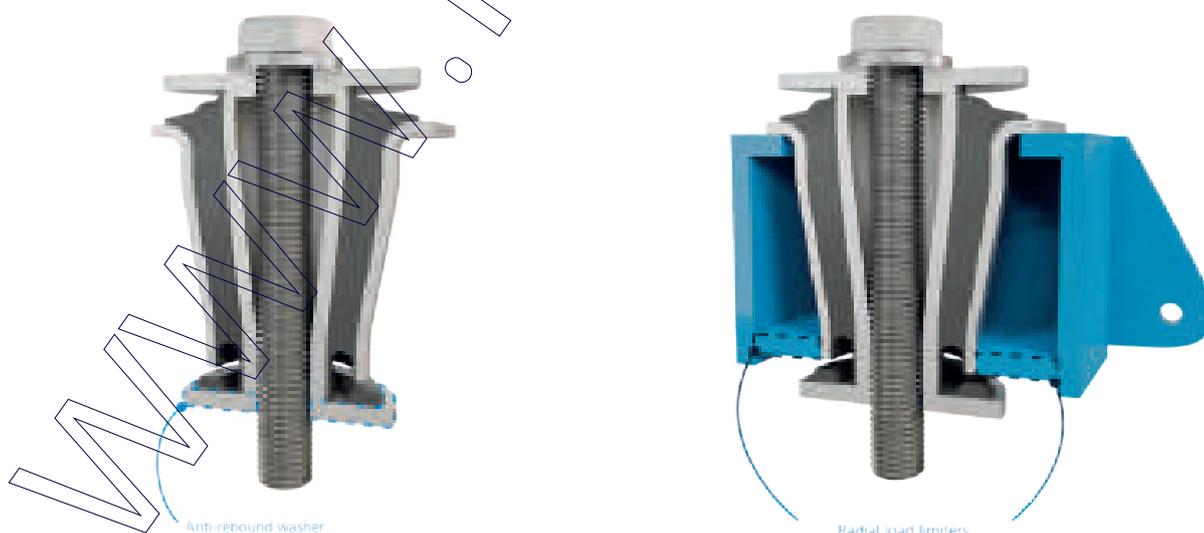


RECOMMENDATIONS FOR THE CONICAL MOUNTS

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.



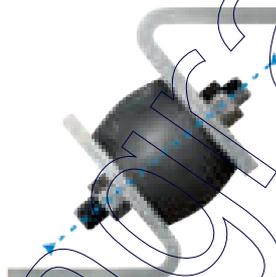
RECOMMENDATIONS FOR THE CYLINDRICAL MOUNTS

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.

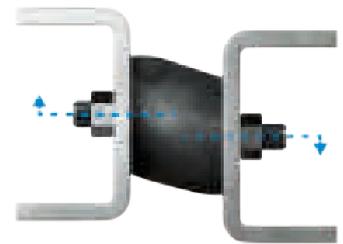
This applies to our bobbins, diabolos, trapezoidal or annular mounts.



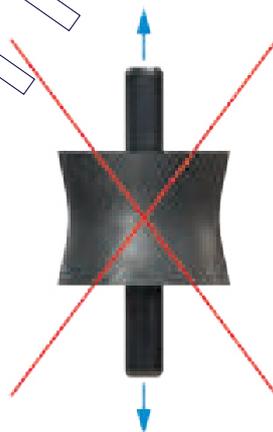
Compression



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.

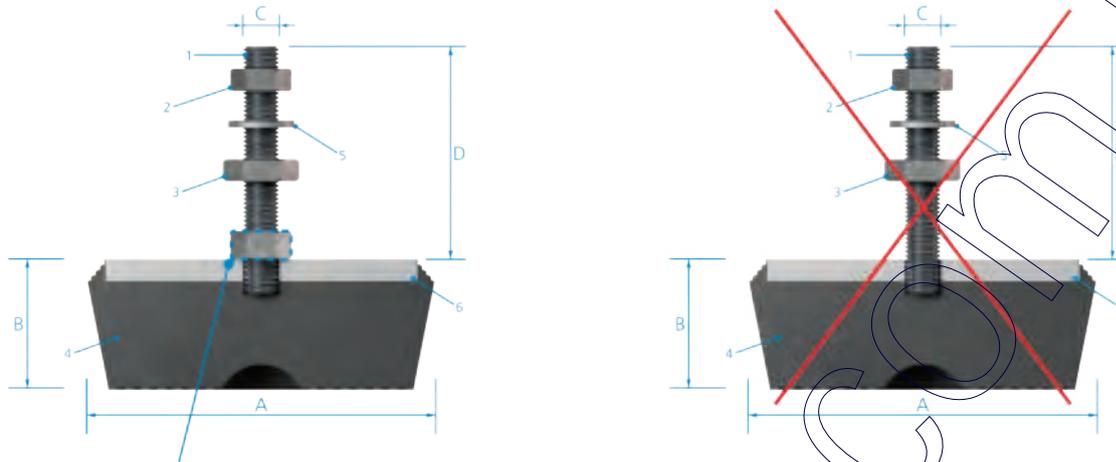
Alignment should therefore be checked 48 hours after the installation of the machine.

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:

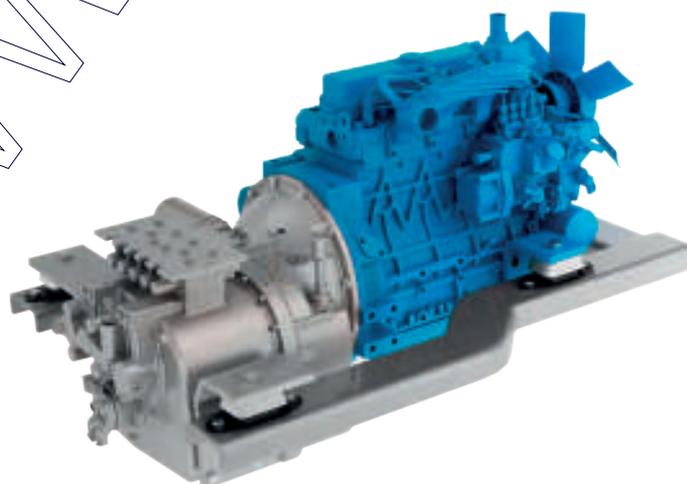
	M8	M10	M12	M16	M20	M24
Tightening torque Nm	16	32	55	125	190	285

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

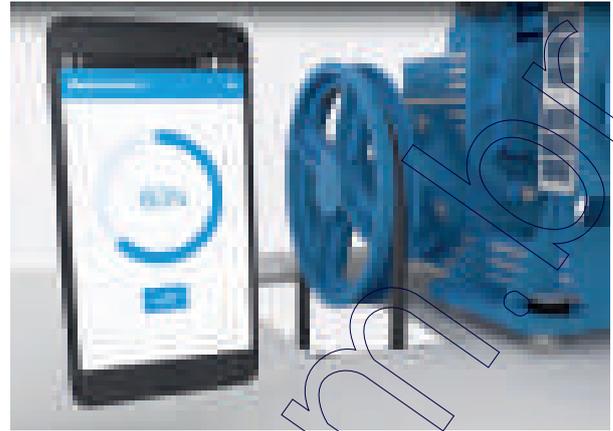
AMC MECANOCAUCHO® Bluetooth Accelerometer has been developed to work in conjunction with the AMC MECANOCAUCHO® free of cost app Vibration Isolator Pro for Android and iOS.

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

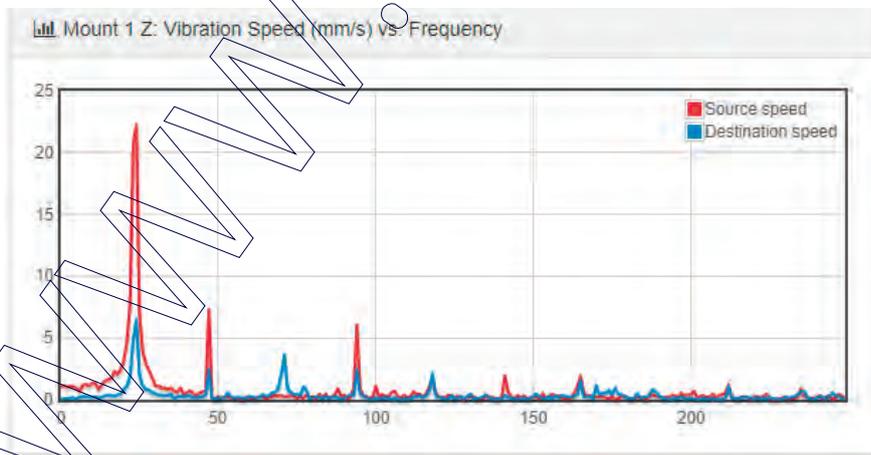


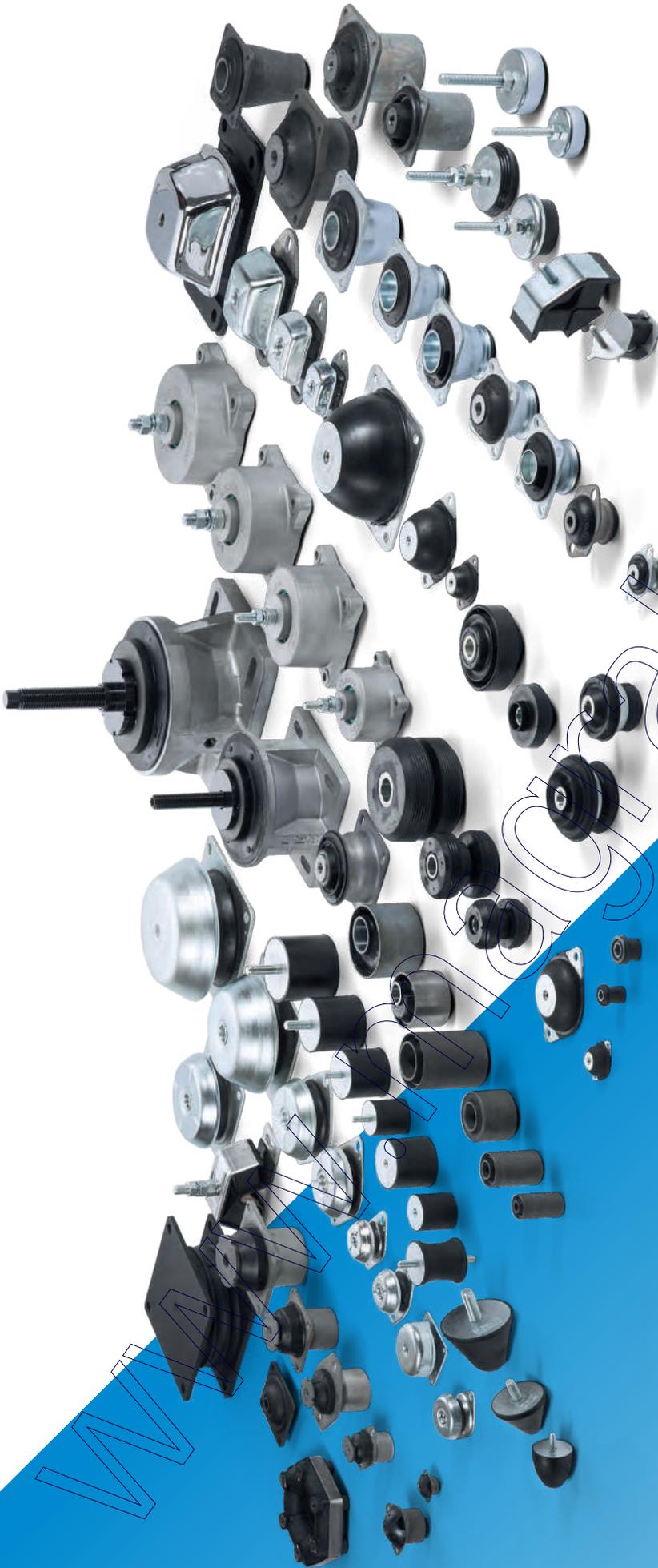
QUICK GUIDE



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.