

POLYBOND

Anti-Vibration Mountings

INTRODUCTION



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The right choice of antivibration mountings starts with choosing the right company. There should be a large selection of different types and sizes to choose from, no matter what the application. Knowledgeable personnel should always be available to select and design the right mounts. Lastly, after selection is made, delivery should be expidious and consistant. This catalog will introduce you to the wide range of POLYBOND anti-vibration mounts. We know that one product style cannot possibly satisfy you, thats why we offer so many different styles and sizes of mounts. When our ready selection range does not help you solve your problem, our engineers will design the right mount especially for you. We have the right product for your application. Always

HOW TO SELECT THE RIGHT MOUNT?

A quick & simple way to select the right mount is given below :

1. Divide total weight of equipment by number of mounting points. Resulting figure will indicate load per mounting.
2. Determine lowest disturbing frequency (i.e. the lowest r.p.m. of equipment which causes vibration)
3. From the 'Isolation Table' shown alongside find out the required deflection for your desired isolation level (we recommend 80%)
4. With this data of 'Load per mount' and required deflection, select suitable mount from this catalogue.
5. Please contact our Engineering Department for additional details.

Isolation Table

Disturbing Frequency RPM	Deflection in (mm) for		
	50% Isolation	70% Isolation	80% Isolation
300	30.00	43.34	59.97
400	16.90	24.43	33.82
500	10.81	15.60	21.61
600	7.50	10.83	15.00
700	5.52	7.97	11.02
800	4.22	6.10	8.44
900	3.33	4.81	6.66
1000	2.70	3.90	5.40
1050	2.45	3.54	4.90
1100	2.23	3.22	4.46
1150	2.04	2.95	4.08
1200	1.87	2.70	3.74
1250	1.73	2.50	3.46
1300	1.60	2.30	3.19
1350	1.48	2.14	2.96
1400	1.37	1.99	2.75
1450	1.28	1.86	2.57
1500	1.19	1.73	2.40
1550	1.12	1.62	2.24
1600	1.05	1.52	2.10
1650	0.99	1.43	1.98
1700	0.93	1.34	1.86
1750	0.88	1.27	1.76
1800	0.83	1.20	1.66
1850	0.79	1.14	1.57
1900	0.74	1.08	1.49
1950	0.71	1.02	1.42
2000	0.67	0.97	1.34
2200	0.55	0.80	1.11
2400	0.46	0.67	0.93
2600	0.40	0.57	0.80
2800	0.34	0.49	0.68
3000	0.30	0.43	0.60

STIFFNESS IDENTIFICATION METHOD

INCREASING STIFFNESS	
Designation	Colour Code
A	BLUE
B	WHITE
C	GREEN
D	YELLOW
E	RED

VIBRATIONS

Mechanical vibration is a form motion oscillation and occurs in all types of machinery and equipment. It is what you feel when you touch the hood of a car, engine of which is running; or when you touch the base of a motor which is running. The mechanical vibration can be easily explained in the simplest way by an experiment as shown in Fig. 1.

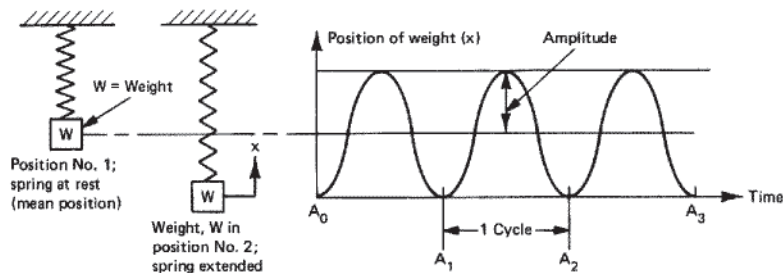


Figure 1

One end of an extension spring is tied to the ceiling and a dead mass 'W' is tied to another end of the spring. The dead mass 'W' is stretched a little and released for free oscillations. What will happen? The dead mass will oscillate for certain period and will come to a still position. If we plot the movement of a particle on mass 'W' w. r. t. time

We will get a sinusoidal waveform. Vibrations are always expressed like this. In this the maximum distance between the peak and crest is the peak – peal amplitude of vibration; in short the magnitude or the intensity of vibration. This is usually measured in perms of micrometers. The intensity of vibration can also be measured in terms of velocity (mm/second) and acceleration (meter/second²). The interval of time within which the motion sequence repeats itself is called a CYCLE or PERIOD. The number of cycles completed within a unit time (for example ,during one second or during one minute), is known as FREQUENCY of vibration.

In many machines vibration is an unwanted but cannot be avoided. The task of vibration isolation is to control this unwanted vibration so that the adverse effects are kept within acceptable limits.

SHOCK

Shock is defined as a transient condition whereby kinetic energy is transferred to a system in a period of time which is short relative to the natural period of the oscillation of the system. Shock usually concerns a single impulse of energy of short duration and large acceleration which results in sudden change in velocity of the system undergoing shock.

The principles involved in both vibration and shock isolation are similar. However, differences exist due to steady state nature of vibration and transient nature of shock. Shock can occur in enormous ways and can be very complex, and hence there can be various pulse shapes of shock. Shock is always graphically represented as Acceleration as a function of Time.

DAMPING

Static Friction, Solid Friction, Coulomb Damping

These are all terms used for the frictional resistance encountered when one body slides relative to another, e.g. weight dragged on the ground. The frictional force is approximately proportional to the contact force between two bodies, and opposite to direction of relative motion. The constant of proportionality, m , is known as coefficient of friction. If a 10 Kg weight is dragged along a horizontal floor with a coefficient of friction, $m = 0.2$, the frictional resistance is $0.2 \times 10 = 2$ Kg. Sometimes a distance is made between value of coefficient of friction when motion is just impending (starting friction) and the value during motion (kinetic friction). The coefficient of friction in latter case is generally somewhat lower.

Viscous Damping

If a body moves relative to a second body, viscous damping refers to a resisting force, which is proportional to the relative velocity between them. The constant of proportionality is known as the coefficient of viscous damping, c . Units Kg per unit velocity i.e. Kg/(mm/sec) or Kgmm/second. Such damping is encountered, for example, in hydraulic dash pots and devices, which meter a liquid through an orifice. The more viscous the fluid, the greater is the damping. If $c = 5.6 \text{ Kg / (mm/second)}$ and the body moves through a viscous fluid at 0.4 mm/second , the viscous force is $5.6 \times 0.4 = 2.24 \text{ Kg}$. Typical example: Hydraulic door closer.

Critical Damping

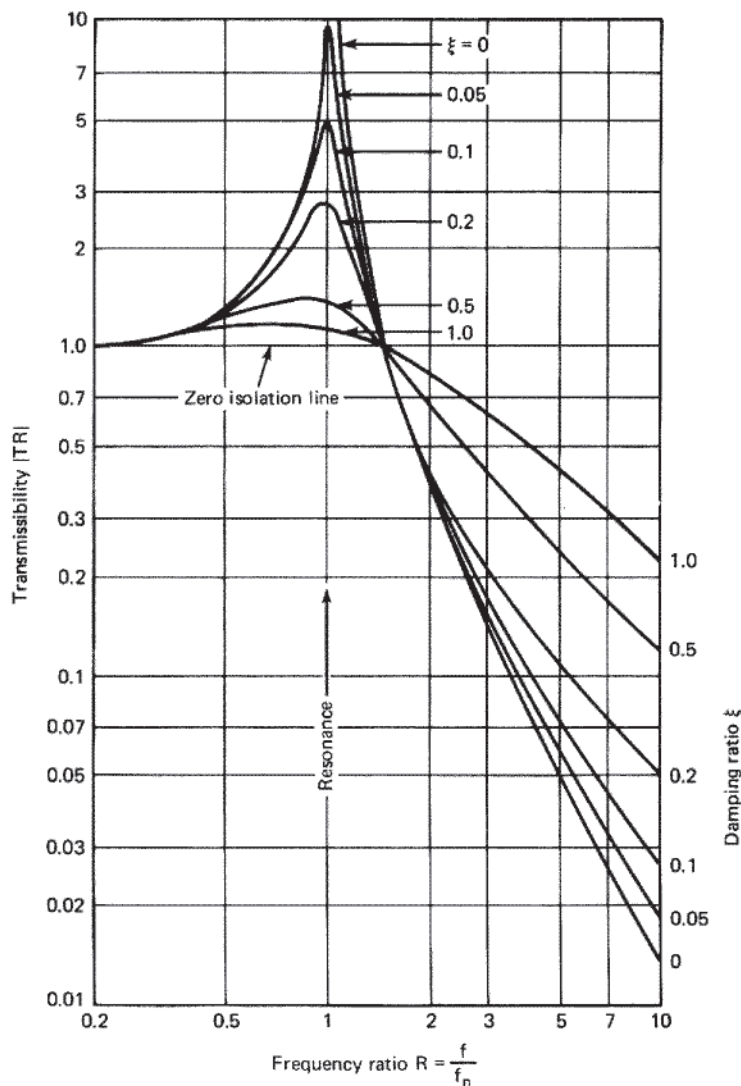
This is the value of damping constant just sufficiently high in a spring mass system so as to prevent vibration.

Damping Ratio

This is the ratio of damping constant to critical damping for that system.

VIBRATION ISOLATION

The figure below is a typical family of transmissibility curves following a single degree of freedom. These curves are generated by various solutions to the transmissibility equation (e) for several frequency ratios (R), and different damping ratios (ξ).



TECHNICAL INTRODUCTION



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It can be seen that the transmissibility is less than one when the frequency ratio is greater than 0.2 i.e. $f/f_n > 0.2$.

This results in the transmitted energy being less than the generated energy. In practical terms, the flexible mountings begin to act as isolators, when the natural frequency of the system is below the frequency generating vibration by a factor of square root 2 i.e. $f_n < 0.707f$.

As the transmissibility equation (e) illustrates, the transmissibility becomes theoretically infinite when there zero damping, and the system excited at its natural frequency ($f = f_n$) so that $\{1 - (f/f_n)^2\} = 0$. This is known as resonant point.

In reality, there is always some internal damping, so this condition never arises. As many flexibly mounted systems must pass through resonance before isolation is possible, a certain amount of damping is desirable. However the degree of isolation deteriorates with increased damping above frequency ratio $f / f_n = (2)^{1/2}$. A compromise is required and a damping ratio of $0.1 < x < 0.2$ is considered suitable for most applications.

Natural Frequency

When mechanical equipment vibrates freely, the resulting number of oscillations per unit time is called the frequency (cycles/second). According to whether the system is free without damping or free with damping, the frequency is called free un-damped natural frequency or free damped natural frequency. The natural frequency is a function of the mass distribution and compliance of the system.

Forcing Frequency

The number of oscillations per unit time of an external force or displacement, applied to a vibrating system.

Resonance

Displacement and stress tend to build up greatly when the forcing frequency coincides with natural frequency. This condition is known as resonance.

Frequency Ratio

This is the ratio of two frequencies, usually forcing frequency to natural frequency.

Isolation Efficiency

Isolation is a percentage of vibration or motion that is not transmitted through vibration mount. As shown by the following table, isolation improves with increasing frequency ratio. Isolation efficiency of 81% corresponding to a frequency ratio of 2.5 is generally adequate.

Frequency Ratio	Vibration Absorption, Percent	Results Attained
10.0	98.9	Excellent
4.0	93.3	Excellent
3.0	87.5	Very Good
2.5	81.1	Good
2.0	66.7	Fair
1.5	20.0	Poor
1.4	0	None
1.0	(Resonance)	Worse than with no mounting

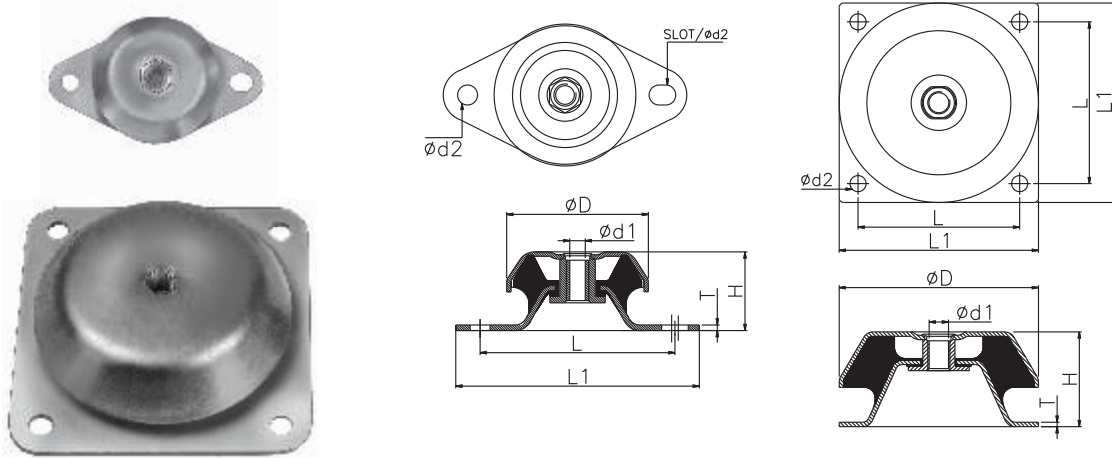
Noise

When the frequency of vibration is in the range about 100 – 18000 cycles / second, the motion is generally accompanied by audible sound. Objectionable sound (in contrast to music, for example) is called noise. Frequency in audible range is sensed by human ears as pitch, i.e. Low pitch sound corresponding to low frequencies and conversely.

MACHINE FEET - PAM

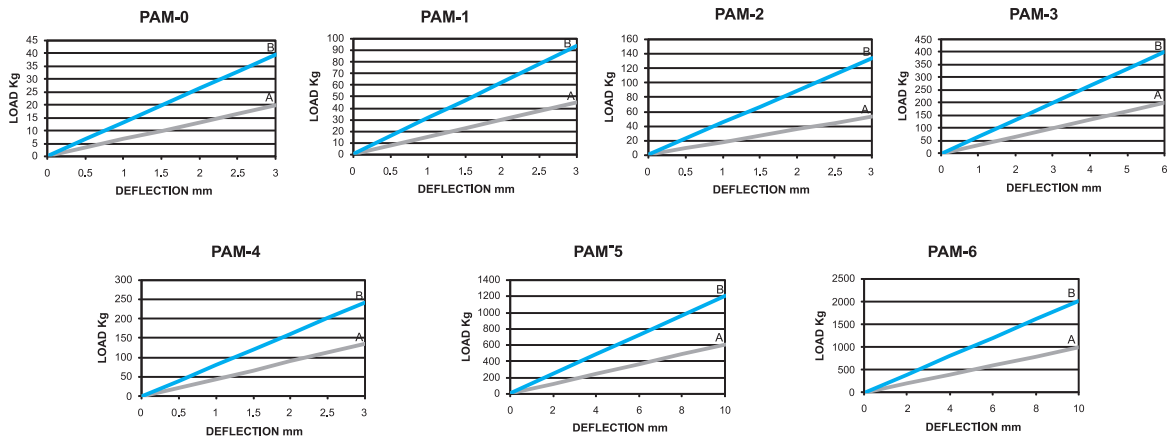


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PART NO	DIMENSIONS (mm)								MAX. LOAD (Kg)	DEFLECTION (mm)
	L1	L	H	Ød1	Ød2	Ød2	T	ØD		
PAM - 0A	110	88	35.5	M10x1.5	Ø 9	Slot 12x9	2.5	64	20	3.0
PAM - 0B	110	88	35.5	M10x1.5	Ø 9	Slot 12x9	2.5	64	40	3.0
PAM - 1A	120	100	35.5	M12x1.75	2 X Slot 11x15	2 X Slot 11x15	2.5	62.8	45	3.0
PAM - 1B	120	100	35.5	M12x1.75	2 X Slot 11x15	2 X Slot 11x15	2.5	62.8	94	3.0
PAM - 2A	135	110	35.5	M12x1.75	Ø 11	Slot 15x11	2	84	54	3.0
PAM - 2B	135	110	35.5	M12x1.75	Ø 11	Slot 15x11	2	84	134	3.0
PAM - 3A	175	144	42	M16x2	Ø 14	Slot 20x13	3	110	200	6.0
PAM - 3B	175	144	42	M16x2	Ø 14	Slot 20x13	3	110	400	6.0
PAM - 4A	216	182	54	M16x2	2 X Slot 18x14	2 X Slot 18x14	4	155	135	3.0
PAM - 4B	216	182	54	M16x2	2 X Slot 18x14	2 X Slot 18x14	4	155	240	3.0
PAM - 5A	180	146	85.5	M20x2.5	4 X Ø 14.5	4 X Ø 14.5	4	180	600	10.0
PAM - 5B	180	146	85.5	M20x2.5	4 X Ø 14.5	4 X Ø 14.5	4	180	1200	10.0
PAM - 6A	220	180	105.5	M24x3	4 X Ø 17.5	4 X Ø 17.5	4	224	1000	10.0
PAM - 6B	220	180	105.5	M24x3	4 X Ø 17.5	4 X Ø 17.5	4	224	2000	10.0

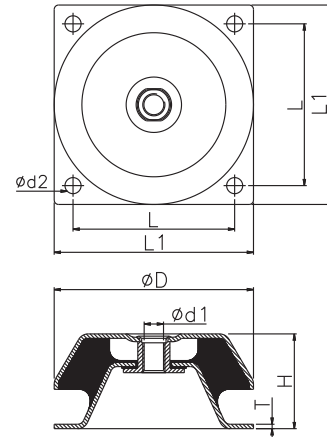
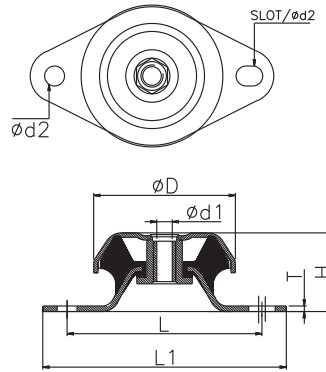
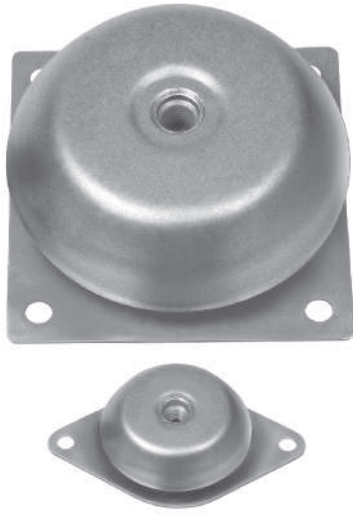
Polybond MACHINE FEET has integral failsafe design. Rubber profile is used effectively in compression and shear simultaneously. PAM series has a soft vertical stiffness. Metal part plated for high corrosion resistance. Typical application are Compressors, AC units, Diesel Engine, Industrial & Marine Genset, Industrial Fans.



MACHINE FEET - PRA

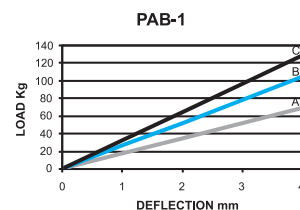
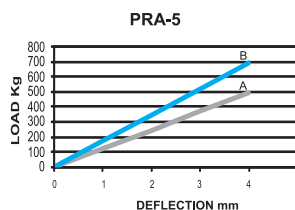
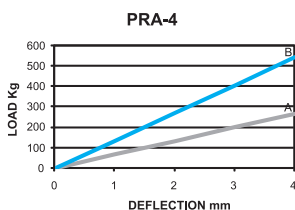
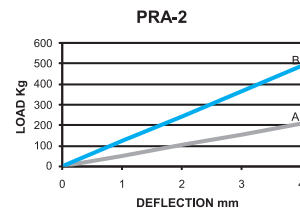
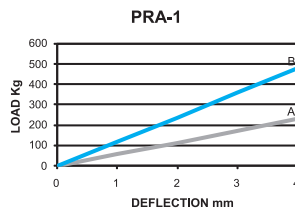
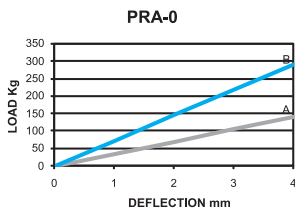


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PART NO	DIMENSIONS (mm)								MAX. LOAD (Kg)	DEFLECTION (mm)
	L1	L	H	Ød1	Ød2	Ød2	T	ØD		
PRA - 0A	128	110	30	M10x1.5	2 X Ø 9	2 X Ø 9	2	77	140	4.0
PRA - 0B	128	110	30	M10x1.5	2 X Ø 9	2 X Ø 9	2	77	290	4.0
PRA - 1A	144	124	35	M10x1.5	2 X Ø 10	2 X Ø 10	2.5	94.5	230	4.0
PRA - 1B	144	124	35	M10x1.5	2 X Ø 10	2 X Ø 10	2.5	94.5	480	4.0
PRA - 2A	170	144	39	M12x1.75	2 X Ø 13.5	2 X Ø 13.5	3	106	210	4.0
PRA - 2B	170	144	39	M12x1.75	2 X Ø 13.5	2 X Ø 13.5	3	106	490	4.0
PRA - 3A	186	158	42	M16x2	Slot 19.5x13.5	Ø 13.5	3	121	300	4.0
PRA - 3B	186	158	42	M16x2	Slot 19.5x13.5	Ø 13.5	3	121	600	4.0
PRA - 4A	212	182	48	M16x2	2 X Ø 13.5	2 X Ø 13.5	3	144	265	4.0
PRA - 4B	213	182	48	M16x2	2 X Ø 13.5	2 X Ø 13.5	3	144	545	4.0
PRA - 5A	170	140	58	M20x2.5	4 X Ø 14.5	4 X Ø 14.5	4	162	460	4.0
PRA - 5B	170	140	58	M20x2.5	4 X Ø 14.5	4 X Ø 14.5	4	162	690	4.0
PAB - 1A	93	76	34	M12x1.75	2 X Ø 10.45	2 X Ø 10.45	2	63	70	4.0
PAB - 1B	93	76	34	M12x1.75	2 X Ø 10.45	2 X Ø 10.45	2	63	105	4.0
PAB - 1C	93	76	34	M12x1.75	2 X Ø 10.45	2 X Ø 10.45	2	63	130	4.0

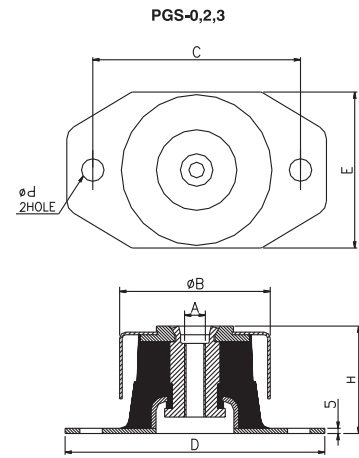
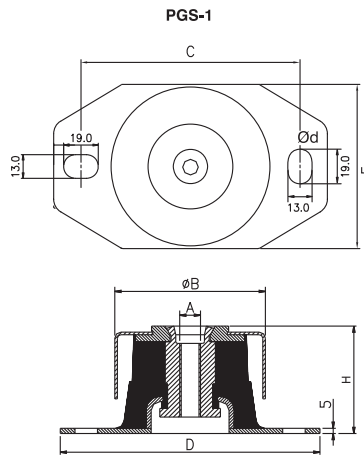
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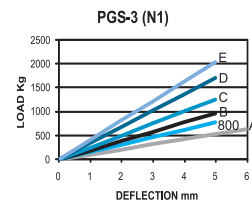
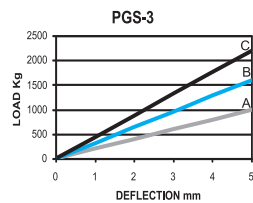
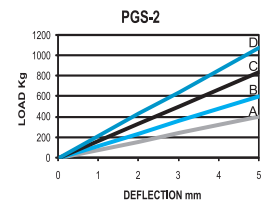
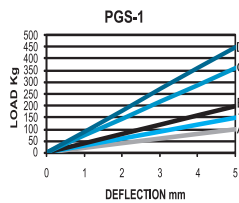
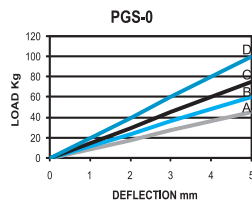
GEN-SAFE MOUNT - PGS



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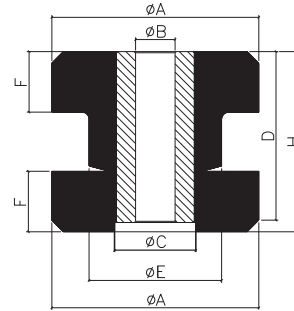
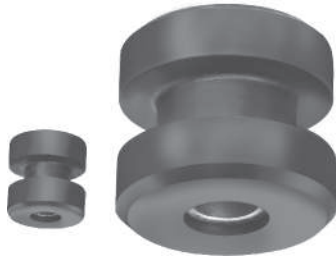
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PGS - 0	BLUE	A	45	5.0	M10	54.5	76	94	70	50	10.2
PGS - 0	WHITE	B	60	5.0	M10	54.5	76	94	70	50	10.2
PGS - 0	GREEN	C	75	5.0	M10	54.5	76	94	70	50	10.2
PGS - 0	YELLOW	D	100	5.0	M10	54.5	76	94	70	50	10.2
PGS - 1	BLUE	A	100	5.0	M12 /M16	77	120	150	90	62	13x19
PGS - 1	GRAY	(150)	150	5.0	M12 /M16	77	120	150	90	62	13x19
PGS - 1	WHITE	B	200	5.0	M12 /M16	77	120	150	90	62	13x19
PGS - 1	GREEN	C	360	5.0	M12 /M16	77	120	150	90	62	13x19
PGS - 1	YELLOW	D	450	5.0	M12 /M16	77	120	150	90	62	13x19
PGS - 2	BLUE	A	400	5.0	M16	98	180	230	110	62	13.0
PGS - 2	WHITE	B	600	5.0	M16	98	180	230	110	62	13.0
PGS - 2	GREEN	C	840	5.0	M16	98	180	230	110	62	13.0
PGS - 2	YELLOW	D	1080	5.0	M16	98	180	230	110	62	13.0
PGS - 3(N1)	BLUE	A	600	5.7	M20	138	180	230	150	62	13.0
PGS - 3(N1)	GRAY	(800)	800	5.2	M20	138	180	230	150	62	13.0
PGS - 3(N1)	WHITE	B	1000	5.2	M20	138	180	230	150	62	13.0
PGS - 3(N1)	GREEN	C	1250	5.0	M20	138	180	230	150	62	13.0
PGS - 3(N1)	YELLOW	D	1600	4.7	M20	138	180	230	150	62	13.0
PGS - 3(N1)	RED	E	1800	4.4	M20	138	180	230	150	62	13.0
PGS - 3	BLUE	A	1000	5.0	M20	138	180	230	150	62	13.0
PGS - 3	WHITE	B	1600	5.0	M20	138	180	230	150	62	13.0
PGS - 3	GREEN	C	2200	5.0	M20	138	180	230	150	62	13.0



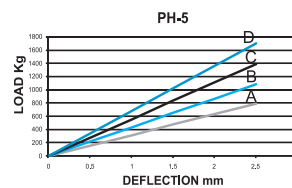
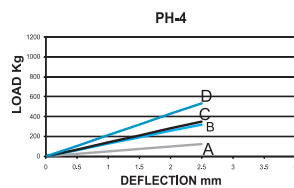
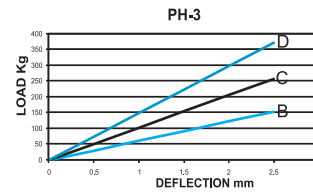
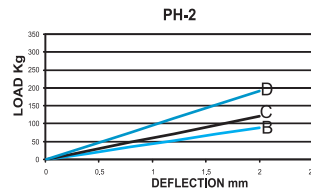
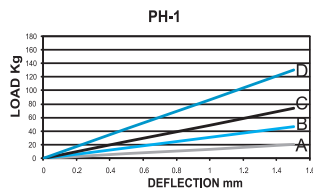
DUAL COMPRESSION MOUNTS PH



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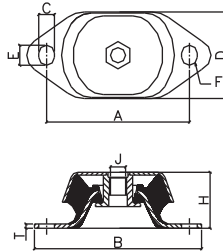
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PH-1	A	30	1.3	33.3	10.3	15	31.8	20.1	12.3	34
PH-1	B	41	1.3	33.3	10.3	15	31.8	20.1	12.3	34
PH-1	C	64	1.3	33.3	10.3	13	31.8	20.1	12.3	34
PH-1	D	113	1.3	33.3	10.3	15	31.8	20.1	12.3	34
PH-2	B	80	1.8	47.8	13.5	19	49.3	32.5	20.4	49.5
PH-2	C	109	1.8	47.8	13.5	19	49.3	32.5	20.4	49.5
PH-2	D	172	1.8	47.8	13.5	19	49.3	32.5	20.4	49.5
PH-3	B	135	2.2	64.8	16.7	24.6	61.7	40.1	22.9	63.8
PH-3	C	181	2.2	64.8	16.7	24.6	61.7	40.1	22.9	63.8
PH-3	D	226	2.2	64.8	16.7	24.6	61.7	40.1	22.9	63.8
PH-3	E	328	2.2	64.8	16.7	24.6	61.7	40.1	22.9	63.8
PH-4	A	122	2.5	89	23.8	35	73.4	57	26	77.5
PH-4	B	321	2.5	89	23.8	35	73.4	57	26	77.5
PH-4	C	350	2.5	89	23.8	35	73.4	57	26	77.5
PH-4	D	531	2.5	89	23.8	35	73.4	57	26	77.5
PH-5	A	725	2.3	124	27	37.8	85.9	64.8	31.8	85.9
PH-5	B	1000	2.3	124	27	37.8	85.9	64.8	31.8	85.9
PH-5	C	1280	2.3	124	27	37.8	85.9	64.8	31.8	85.9
PH-5	D	1565	2.3	124	27	37.8	85.9	64.8	31.8	85.9



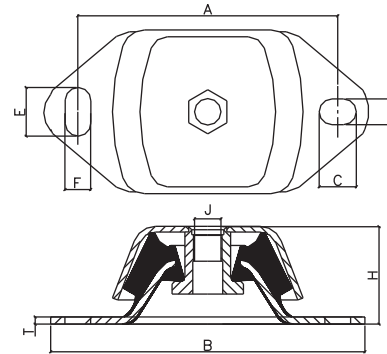
COMBI MOUNTS - PC



Moulding Innovation into Global Bonds



PC - 100

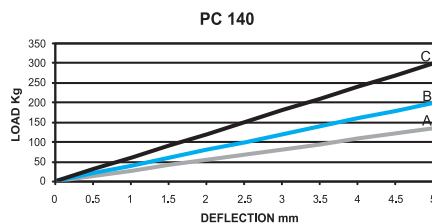
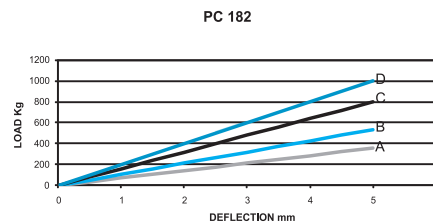
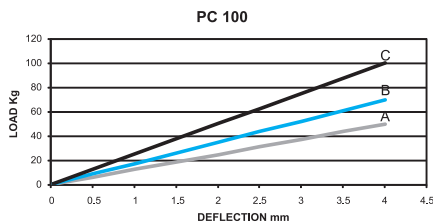


PC - 140 / PC - 182

PART NO	DIMENSIONS (mm)										
	A	B	C	D	E	F	G	H	I	J	T
PC - 100	100	120	11	60	14	-	5.5	40	-	M12	3
PC - 140	140	183	20	76	30	13	6.5	50	13	M16	4
PC - 182	182	230	26	112	34	18	9.0	70	18	M20	5

PART NO.		LOAD (Kg)	DEFLECTION (mm)
PC - 100	A	50	4
PC - 100	B	70	4
PC - 100	C	100	4
PC - 140	A	135	5
PC - 140	B	200	5
PC - 140	C	300	5
PC - 182	A	355	5
PC - 182	B	530	5
PC - 182	C	800	5
PC - 182	D	1000	5

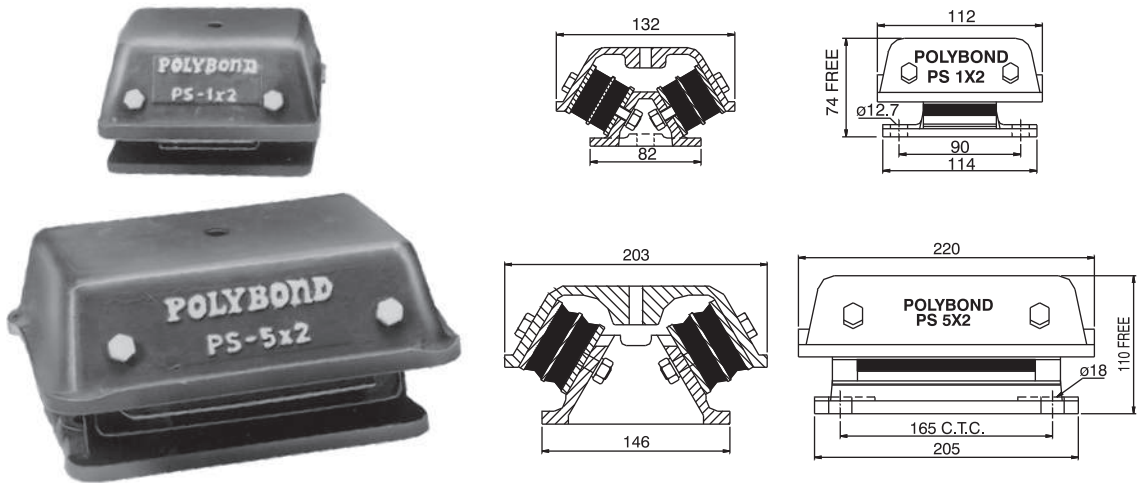
POLYBOND COMBIMOUNTS PC are suitable for a wide variety of equipment. The COMBIMOUNT PC, is low in profile, compact in size and Ideal for mobile application due to added "Fail safe" feature. These mounts can be supplied with a height adjustment feature if required.



COMBI MOUNT - PS

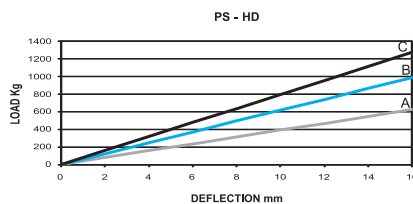
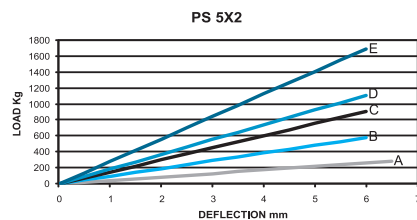
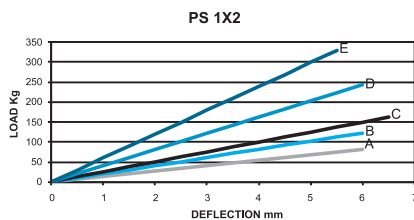


Moulding Innovation into Global Bonds



PART NO.	COLOUR CODE	LOAD (Kg)	DEFLECTION (mm)	TOP FIXING HOLE	
				PLAIN	TAPED
PS - 1 x 2A	BLUE	77	5.6	10	M12
PS - 1 x 2B	WHITE	118	5.8	10	M12
PS - 1 x 2C	GREEN	153	6.1	10	M12
PS - 1 x 2D	YELLOW	235	5.8	10	M12
PS - 1 x 2E	RED	317	5.3	10	M12
PS - 5 x 2A	BLUE	272	6.3	13	M16
PS - 5 x 2B	WHITE	544	5.6	13	M16
PS - 5 x 2C	GREEN	850	5.6	13	M16
PS - 5 x 2D	YELLOW	1040	5.6	13	M16
PS - 5 x 2E	RED	1580	5.6	13	M16

Polybond COMBIMOUNTS PS consist of two PS type sandwich mounts housed together in specially designed iron castings for protection against oil and mechanical damage. These are special mountings with natural frequencies down to 5.5 Hz and very good lateral stability. For low disturbing frequencies, high deflection can be achieved by screwing two COMBIMOUNTS PS together along the flange. When they cannot be bolted, these mounts can be located by rubber friction pads.



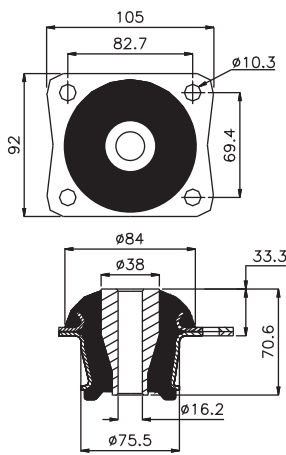
CORE MOUNTS



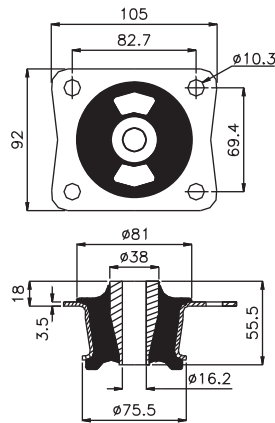
Moulding Innovation into Global Bonds



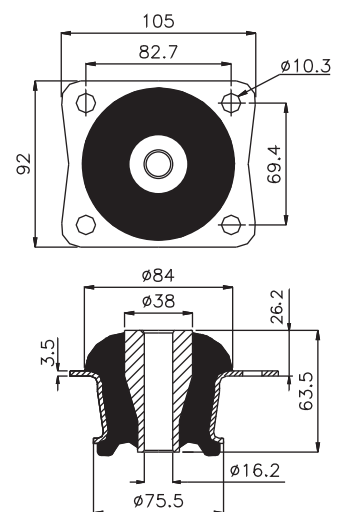
P-193



P-772

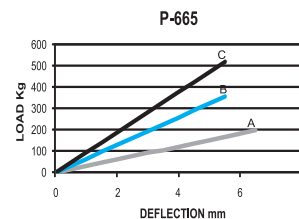
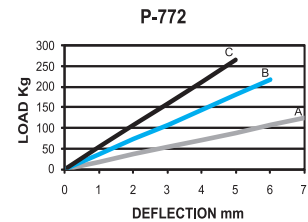
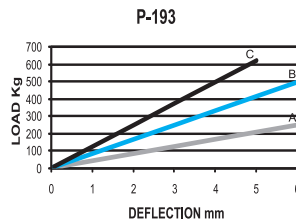


P-665



These core mounts when used with the right washers, provide a "fail-safe" feature, essential for many severe applications. Due to the high deflections possible these mounts provide good isolation and are extremely popular in mobile applications.

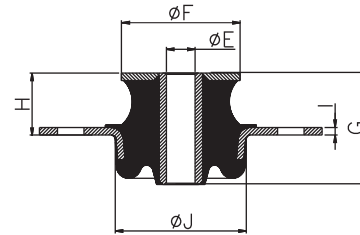
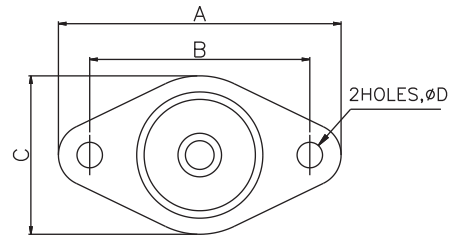
PART NO.		LOAD (Kg)	DEFLECTION (mm)
P - 193	A	250	6.0
P - 193	B	500	6.0
P - 193	C	600	4.8
P - 665	A	200	6.5
P - 665	B	350	5.4
P - 665	C	500	5.3
P - 772	A	120	6.8
P - 772	B	200	5.5
P - 772	C	250	4.7



CORE MOUNTS



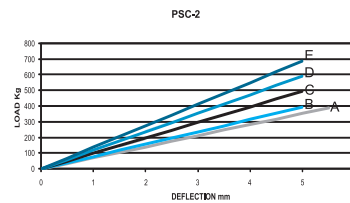
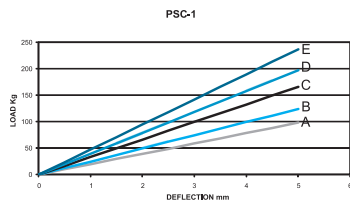
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PART NO	DIMENSIONS (mm)									
	A	B	C	ØD	ØE	ØF	G	H	I	ØJ
PSC - 1	114	89	64	10.3	11.6	48	45	25	3	53
PSC - 2	133.3	108	82.5	10.3	17.5	70	57	30	3	57

PART NO.		LOAD (Kg)	DEFLECTION (mm)
PSC - 1	A	91	4.6
PSC - 1	B	114	4.6
PSC - 1	C	159	4.8
PSC - 1	D	182	4.6
PSC - 1	E	227	4.8
PSC - 2	A	364	5.1
PSC - 2	B	364	4.6
PSC - 2	C	455	4.6
PSC - 2	D	545	4.6
PSC - 2	E	636	4.6

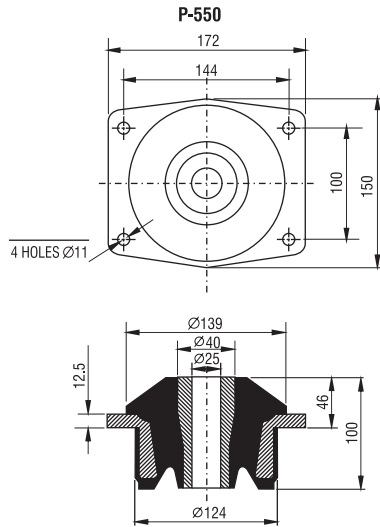
POLYBOND Core mounts are designed so that the rubber works in both, shear, and compression. These mounts will work in most severe shock conditions when used with snubbing washers. The low profile, failsafe core mounts are used for a number of applications.



CORE MOUNT P-550



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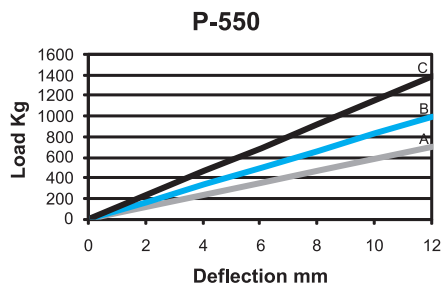
PART NO.	LOAD (Kg)	DEFLECTION (mm)
P - 550	700	12.0
P - 550	1000	12.0
P - 550	1400	12.0

Rugged construction

Fail-safe when used with overload and rebound washers

Capable of withstanding high degree of shocks and vibrations

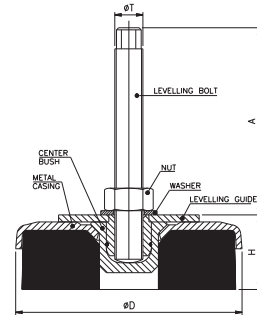
High strength flange with cast steel material for P-550



MACHINE MOUNT - PSN

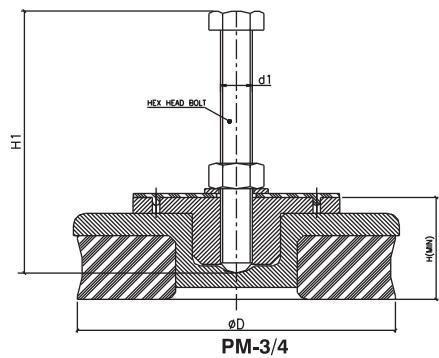
POLYBOND

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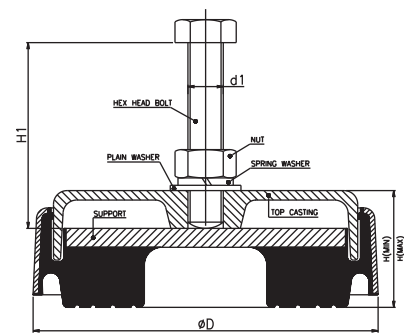


PART NO	PSN - 1	PSN - 2	PSN - 3
ØD	80 mm	120 mm	160 mm
H	38-50 mm	46-59 mm	53-68 mm
A	87 mm	79 mm	122 mm
ØT	M12x1.25	M16x1.5	M20x1.5
Optional Load Range	-	M12x1.25	M16x1.5
	50-500 Kg	200-1100 Kg	800-2100 Kg

MACHINE MOUNT - PM



PM-3/4



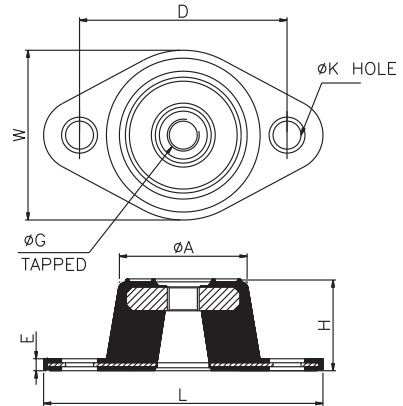
PM-1000/2500

PART NO	ØD	H		H1	Ød1	MAX. DEFL	LOAD (Kg)	NORMAL LOAD (Kg)
		MIN.	MAX					
PM - 3	160	57	70	250	M20x1.5	3	1000	1000 ± 300
PM - 4	200	64	80	250	M20x1.5	3	2200	2200 ± 300
PM - 1000	133	54	74	160	M16x1.5	2	1000	1000 ± 300
PM - 2500	195	66	86	180	M20x1.5	2	2500	2500 ± 300

P MOUNTS



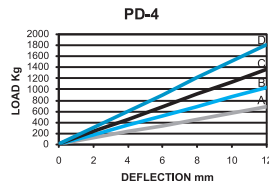
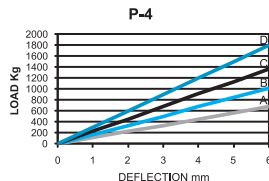
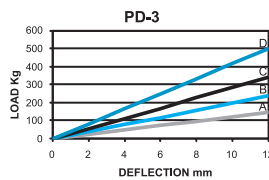
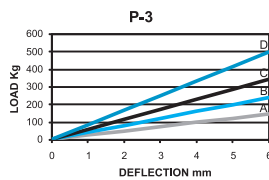
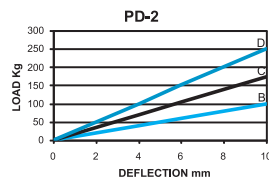
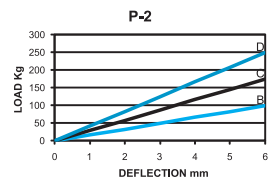
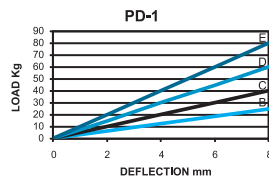
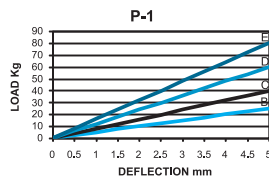
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For effective isolation of noise and vibration from rotating equipment with speeds of 1000 rpm and above. Typical used to isolate fans, pumps, generators, air-conditioning units and general machinery.

TYPE	DIMENSIONS (mm)							
	H	L	W	D	ØA	ØG	ØK	E
P - 1	28	80	45	60	32	M8	8.5	5
P - 2	32	98	60	76	45	M10	8.5	6
P - 3	44	140	85	104	64	M12	14	6
P - 4	45	165	110	127	100	M12	14	6
PD - 1	35	80	45	60	32	M8	8.5	5
PD - 2	44	98	60	76	45	M10	8.5	6
PD - 3	72	140	85	104	64	M12	14	6
PD - 4	75	165	110	127	100	M12	14	6

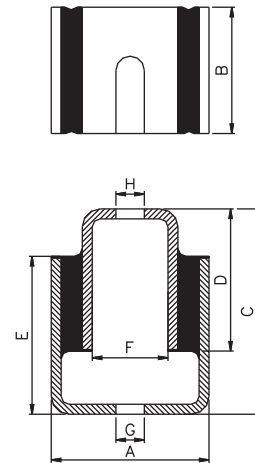
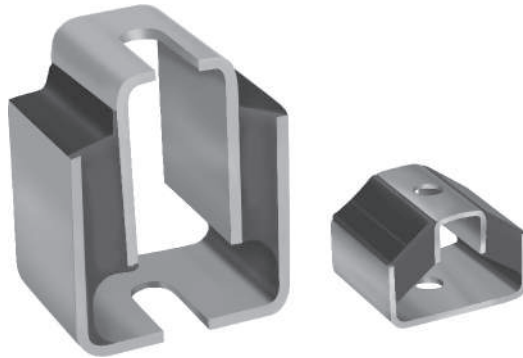
TYPE	COLOUR CODE	LOAD (kg)	DEFL. (mm)
P - 1B	WHITE	25	5
P - 1C	GREEN	40	5
P - 1D	YELLOW	60	5
P - 1E	RED	80	5
PD - 1B	WHITE	25	8
PD - 1C	GREEN	40	8
PD - 1D	YELLOW	60	8
PD - 1E	RED	80	8
P - 2B	WHITE	100	6
P - 2C	GREEN	175	6
P - 2D	YELLOW	250	6
PD - 2B	WHITE	100	10
PD - 2C	GREEN	175	10
PD - 2D	YELLOW	250	10
P - 3B	WHITE	145	6
P - 3C	GREEN	240	6
P - 3D	YELLOW	340	6
P - 3E	RED	500	6
PD - 3B	WHITE	145	12
PD - 3C	GREEN	240	12
PD - 3D	YELLOW	340	12
PD - 3E	RED	500	12
P - 4B	WHITE	680	6
P - 4C	GREEN	1020	6
P - 4D	YELLOW	1360	6
P - 4E	RED	1800	6
PD - 4B	WHITE	680	12
PD - 4C	GREEN	1020	12
PD - 4D	YELLOW	1360	12
PD - 4E	RED	1800	12



DOUBLE U SHEAR MOUNTS

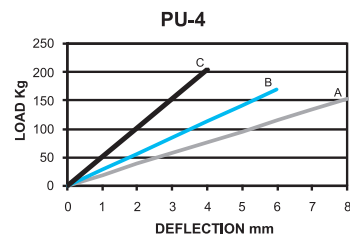
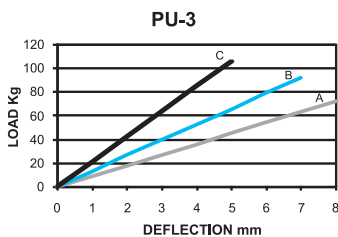
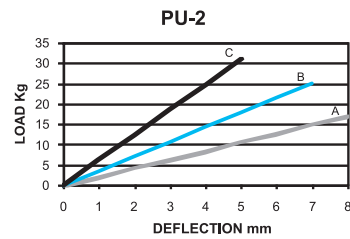
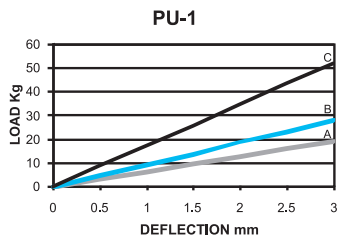


Moulding Innovation into Global Bonds



PART NO	DIMENSIONS (mm)								LOAD (Kg)	DEFLECTION (mm)
	A	B	C	D	E	F	G	H		
PU - 1A	60	50	42	19	30	17	Ø 10 Holes	Ø 10 Holes	19	3
PU - 1B	60	50	42	19	30	17	Ø 10 Holes	Ø 10 Holes	28	3
PU - 1C	60	50	42	19	30	17	Ø 10 Holes	Ø 10 Holes	52	3
PU - 2A	70	25	62	37	43	25	10 Slot	10 Slot	17	8
PU - 2B	70	25	62	37	43	25	10 Slot	10 Slot	25	7
PU - 2C	70	25	62	37	43	25	10 Slot	10 Slot	28	4.5
PU - 3A	80	50	78	50	55	30	13 Slot	13 Slot	72	8
PU - 3B	80	50	78	50	55	30	13 Slot	13 Slot	92	7
PU - 3C	80	50	78	50	55	30	13 Slot	13 Slot	95	4.5
PU - 4A	86	64	108	76	82	38	16 Slot	16 Slot	152	8
PU - 4B	86	64	108	76	82	38	16 Slot	16 Slot	170	6
PU - 4C	86	64	108	76	82	38	16 Slot	16 Slot	205	4

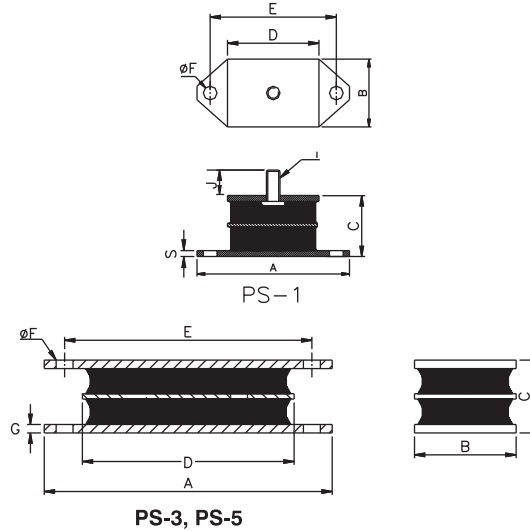
Double 'U' shear mounts feature a soft, vertical spring rate. These mounts are capable of dampening shock and vibrations in the vertical as well as lateral direction. The design incorporates built-in protection against metal-to-metal bottoming.



SANDWICH MOUNT



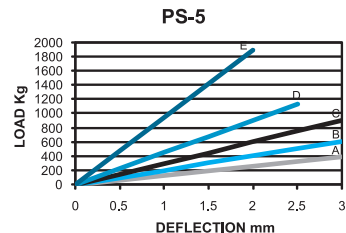
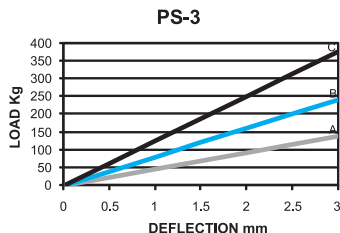
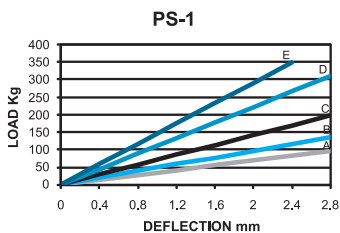
Moulding Innovation into Global Bonds



PART NO	DIMENSIONS (mm)										LOAD (Kg)	DEFLECTION (mm)
	A	B	C	D	E	ØF	S	I	J			
PS - 1A	90	40	36	54	74.5	6.75	3.5	M8	15	95	2.8	
PS - 1B	90	40	36	54	74.5	6.75	3.5	M8	15	135	2.8	
PS - 1C	90	40	36	54	74.5	6.75	3.5	M8	15	200	2.8	
PS - 1D	90	40	36	54	74.5	6.75	3.5	M8	15	310	2.8	
PS - 1E	90	40	36	54	74.5	6.75	3.5	M8	15	350	2.4	

PART NO	DIMENSIONS (mm)								LOAD (Kg)	DEFLECTION (mm)
	A	B	C	D	E	ØF	G			
PS - 3A	110	60	43	65	89	10.3	5	140	3.0	
PS - 3B	110	60	43	65	89	10.3	5	240	3.0	
PS - 3C	110	60	43	65	89	10.3	5	375	3.0	
PS - 5A	170	60	43	125	146	10.3	5	400	3.0	
PS - 5B	170	60	43	125	146	10.3	5	610	3.0	
PS - 5C	170	60	43	125	146	10.3	5	850	2.8	
PS - 5D	170	60	43	125	146	10.3	5	1000	2.2	
PS - 5E	170	60	43	125	146	10.3	5	1900	2.0	

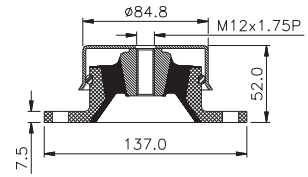
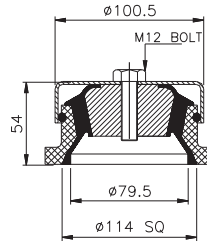
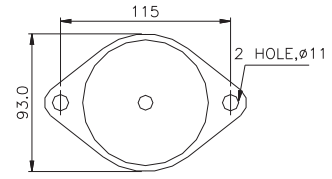
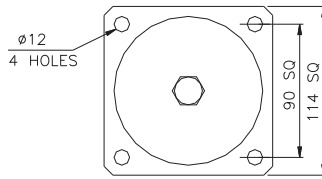
SANDWICH mount are designed to support heavy or sensitive equipment and isolate intermittent or continuous vibrations. These mounts can be loaded by compression, by shear or by combination of the two. The easy-to install SANDWICH mount result in longer service life, smoother operation and reduced maintenance.



DOMES MOUNTS



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PTE / PTC

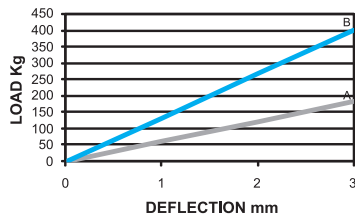
PSB - 84

PART NO.	LOAD (Kg)	DEFLECTION (mm)	COLOUR CODE
PTE	185	3.0	GREEN
PTC	400	3.0	RED

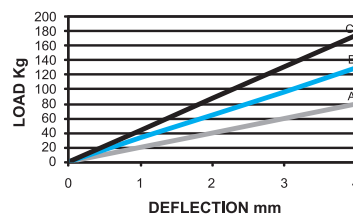
PART NO.	TYPE	LOAD (Kg)	DEFLECTION (mm)	COLOUR CODE
PSB - 84	A	80	4.0	BLUE
PSB - 84	B	130	4.0	WHITE
PSB - 84	C	175	3.0	GREEN

These are compact Shock mounts, designed to work in most severe conditions. The top cup and "O" ring protect the elastometer from surrounding environment. The aluminium base casting is sturdy and light weight. The mount ensures single degree working of the installed equipment.

PTE & PTC



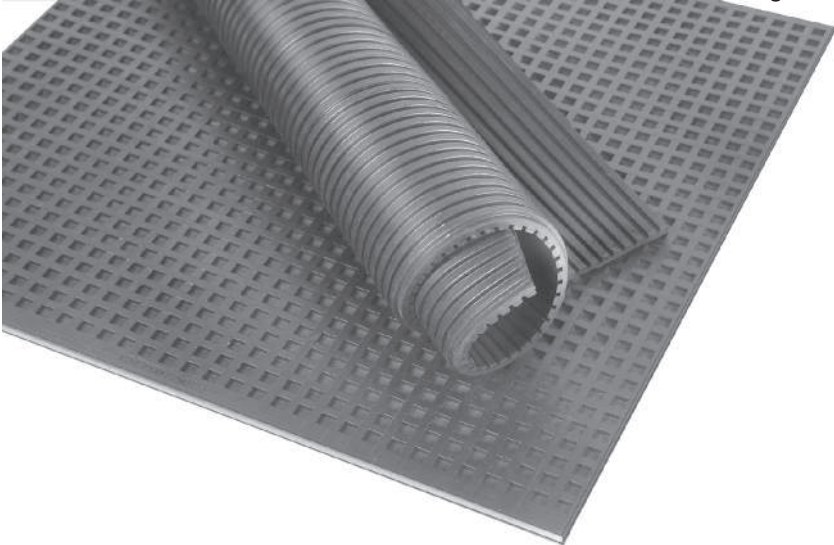
PSB-84



MACHINERY PAD

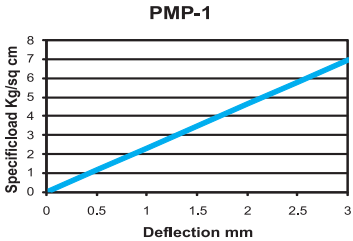
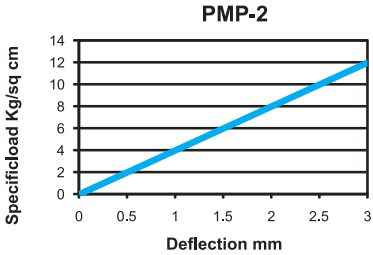


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PART NO.	STANDARD SIZE
PMP - 1	500 mm x 500 mm x 10 mm
PMP - 2	450 mm x 450 mm x 7 mm

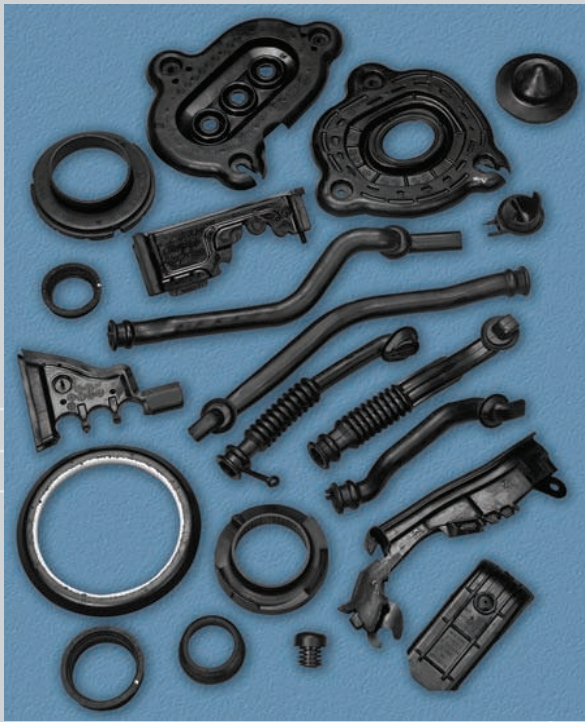
POLYBOND MACHINERY PADS can be used as a low-cost mounting material to eliminate vibrations, impact, shock and noise in machinery. These pads are available in a standard sizes and can be then cut to desired size using knife or scissors.



POLYBOND

Automotive Components





Polybond specializes in manufacturing moulded rubber parts, rubber to metal/plastic bonded parts for the automotive industry since 1978. Our partnership with Germany's **Vorwerk Autotec** ensures that our products are designed and produced to European standards.

Our strength lies in our experience with developing rubber formulations to meet exacting demands of the automotive world. Our in-house tooling division ensures quick lead times for prototypes as well as PPAP tooling.

Polybond is certified to ISO 9001, ISO 14001 and IATF16949 standards.

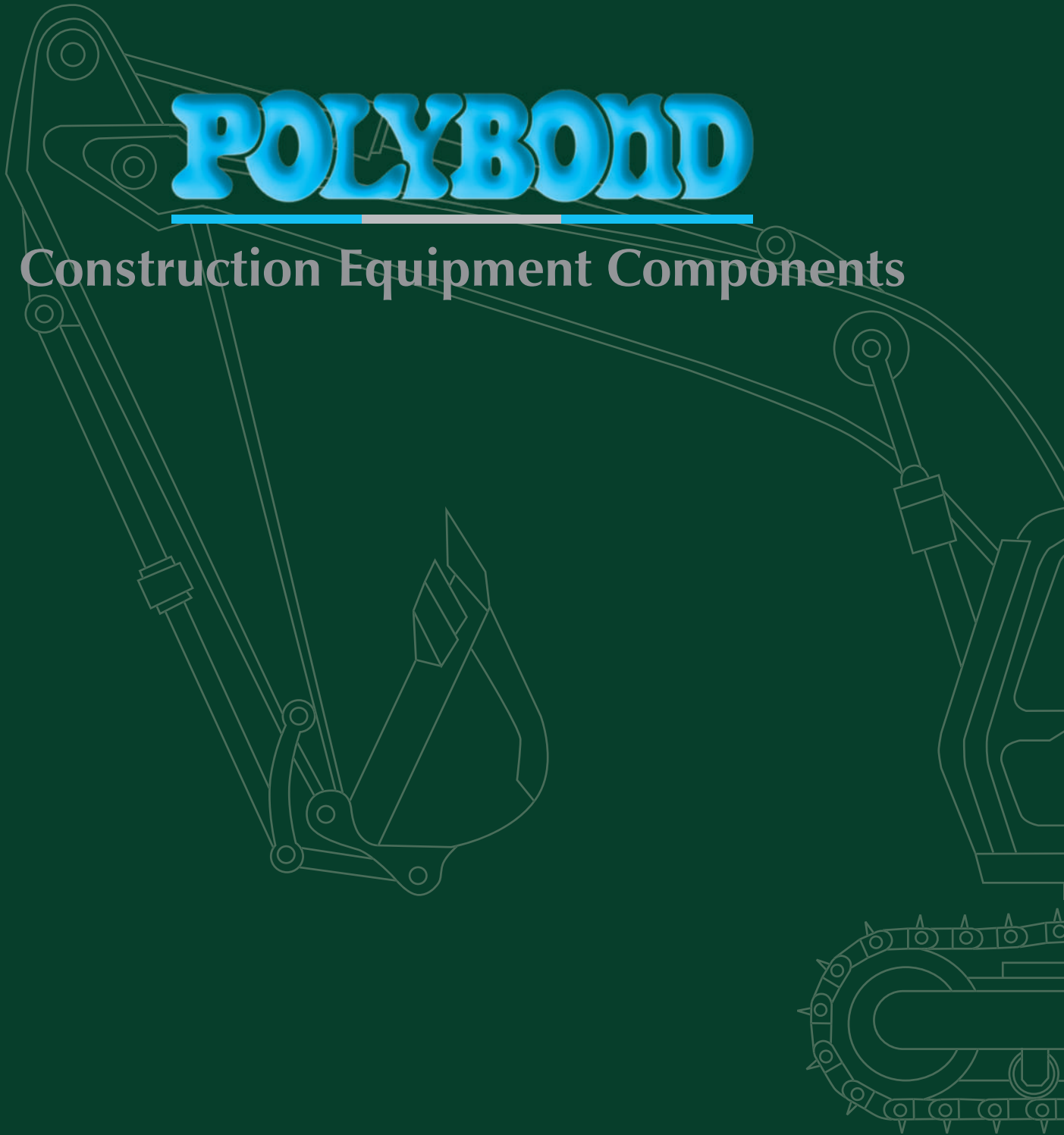


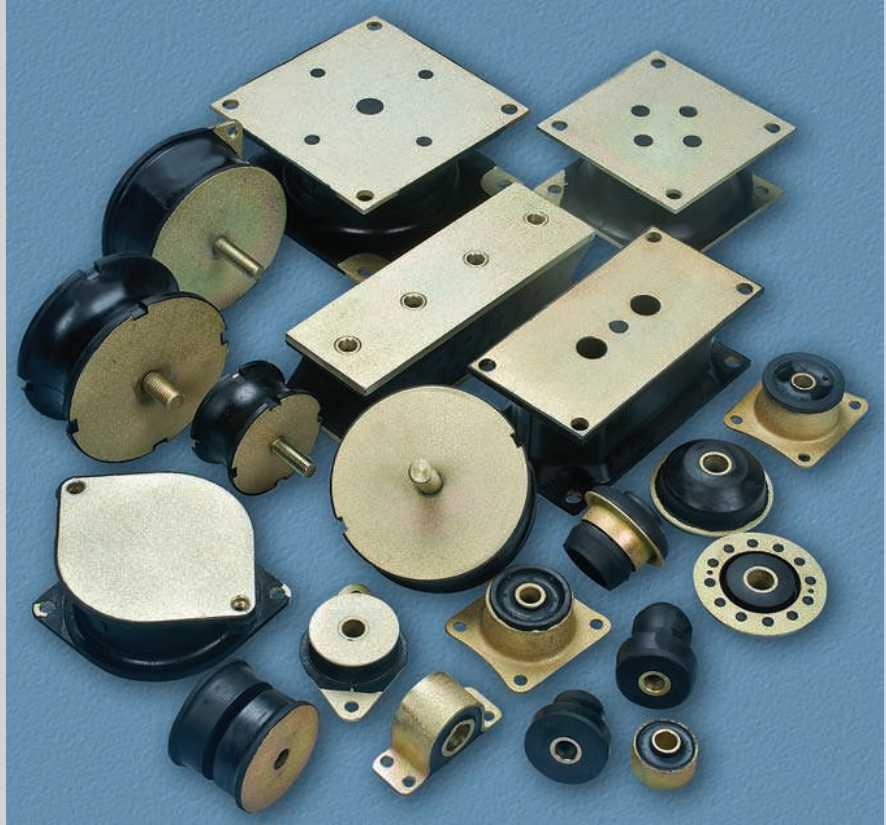
www.polybondindia.com

mkt.polybond@rathigroup.com

POLYBOND

Construction Equipment Components





Polybond's products for construction equipment have a proven track record for critical applications like drum mounts, cabin mounts, engine mounts, radiator mounts, scraper assembly mount, platform mount, instrument, as well as silicone hoses.

Not only do we have an enviable market share with Indian equipment manufacturers, our products are now associated with the best brands in Europe.

Our world-class facility is certified to ISO 9001, IATF16949 and ISO 14001 standards.



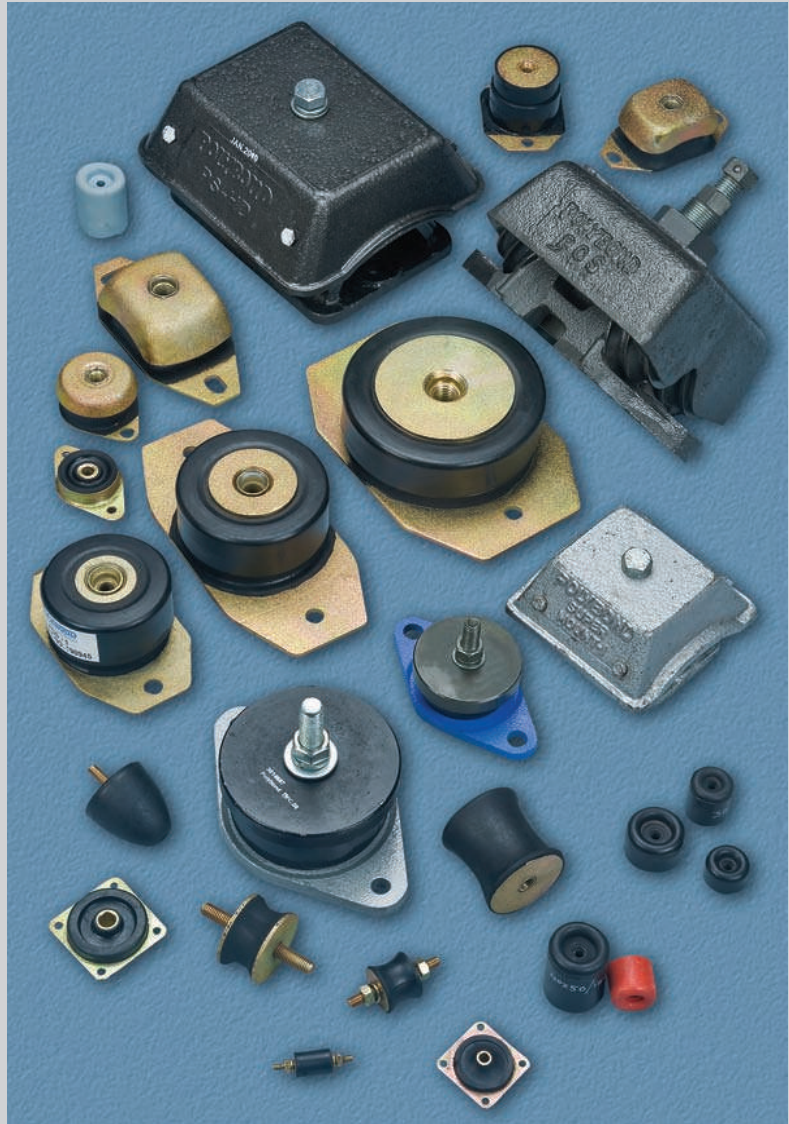
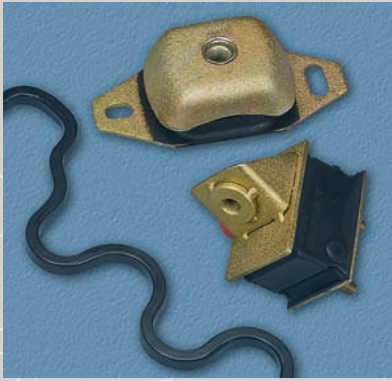
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POLYBOND

Engine and Generator Components





Polybond is the undisputed leader when it comes to rubber parts for engines in India, and is fast emerging as the preferred source for such components world-wide.

Our range of products for mobile or stationary engines include moulded gaskets, engine mounts, silicone hose as well as extruded rubber hose.

For generating sets, we specialize in our range of anti-vibration mounts, including the patented 'PGS' range of products for un-matched results in vibration isolation.

Please log on to www.controlvibrations.net for more details.

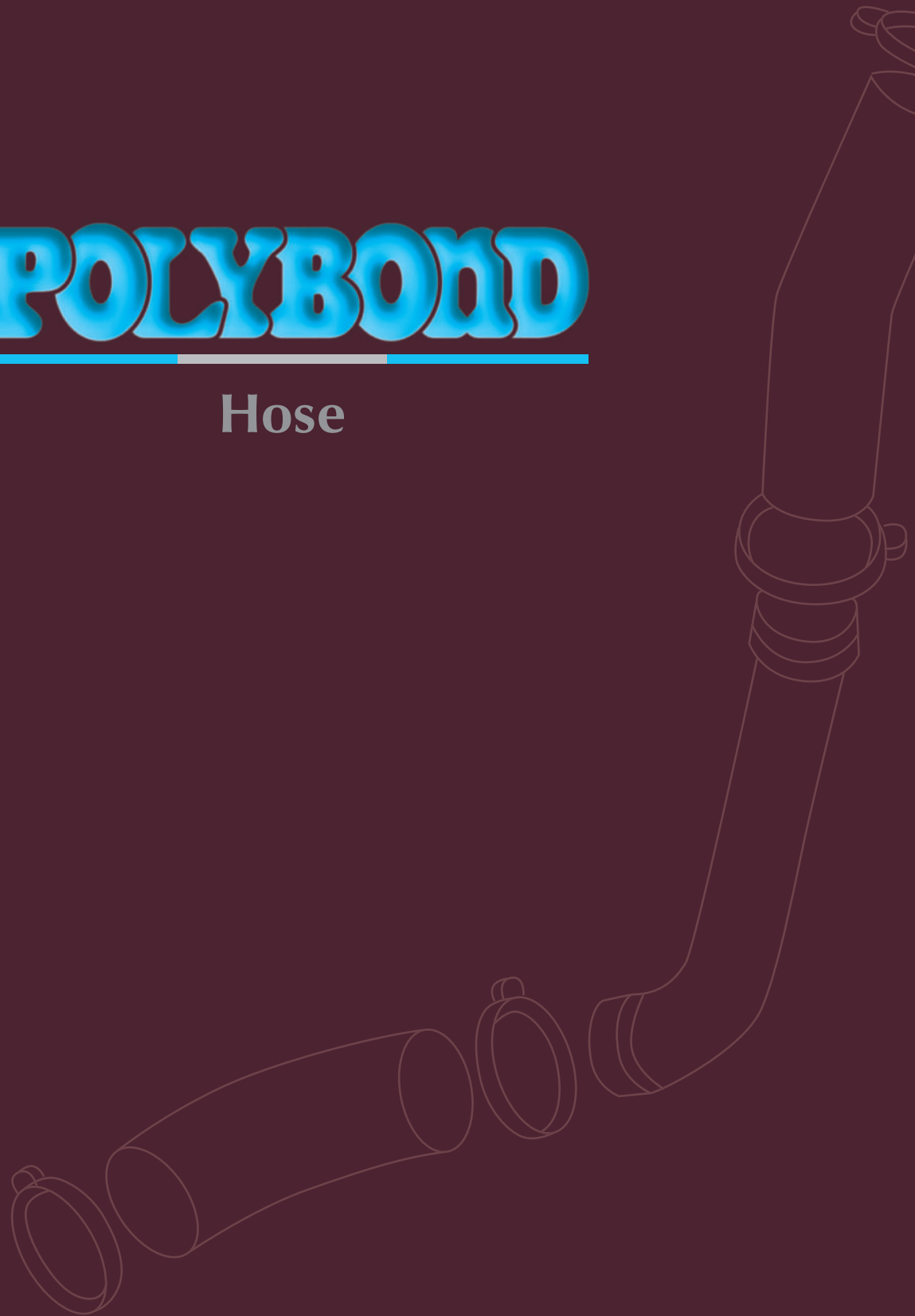


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POLYBOND

Hose





Your Source for Customized Performance Hose

- Operating temperatures up to 260° C (500°F)
- 2, 3 or 4 ply reinforcement
- Choice of Polyester, Nomex®, Kevlar®, Nylon or Fiberglass reinforcement
- Fluorocarbon and Fluorosilicon lined hoses
- Intercooler, Charge-Air, Heater, Turbocharger and Coolant applications
- In-house testing capability for endurance performance of wide temperature range
- Tested to global automotive and truck standards
- World-class manufacturing facility certified to ISO9001, IATF16949 and ISO 14001 standards



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POLYBOND

Truck and Bus Components





When it comes to rubber components for the truck and bus industry, 'Polybond' is a trusted name.

Our product range includes moulded rubber parts, rubber to metal/plastic bonded parts, silicone hose, as well as extruded hose.

We offer engine mounts, bump stop, radiator mounts, and a wide range of radiator hoses and silicone hoses for turbo charger, air and coolant handling applications.

Polybond is certified to ISO 9001, ISO 14001 and IATF16949 standards.



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POLYBOND

Moulding Innovation into Global Bonds





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