

VibraSystems Inc.



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ANTIVIBRATION
LEVELING MACHINERY
MOUNTS & PADS

VibraSystems

Antivibration machinery mounts, bobbins and pads

In order to attain precision, accuracy and increased production efficiency of industrial machinery, it is necessary to isolate the vibration sensitive bases of machinery and equipment from external sources of vibration and prevent one vibration or shock causing machine from disturbing other equipment.

From 1979 VibraSystems Inc. has designed, engineered and developed the most extensive line of Anti-Vibration, shock and noise control products. The quality and performance characteristics of mounts, bobbins and pads are backed by our reputation and many years of engineering experience.

We guarantee your satisfaction!

Check these features:

- No special foundations
- Isolates vibration, shock
- Reduces noise level
- Eliminates danger of creeping or walking
- Easy leveling — built-in leveling device
- Low cost installation of machinery
- Longer machine and tooling life
- Maintains machine portability
- Saves on down time and maintenance
- Increases production efficiency
- Helps your plant meet OSHA standard

VibraSystems' standard line of machinery mounts, bobbins and pads have a unique wide load range selection up to 100,000 lbs.

Custom designed mounts for heavier loads or special engineering applications, not shown on the chart are available upon request.

Here's how to order

You don't have to be an expert to select the suitable type for your machinery. Once you know the total weight of your machine and number of mounting points - determine load per mount and refer to the chart on next page.

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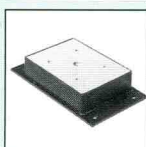
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VHD



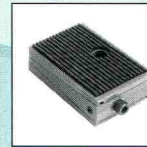
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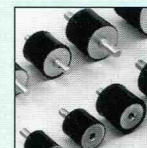
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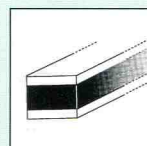
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RIBBED PADS



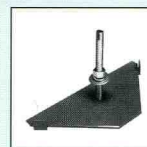
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TYPES VM, VMT

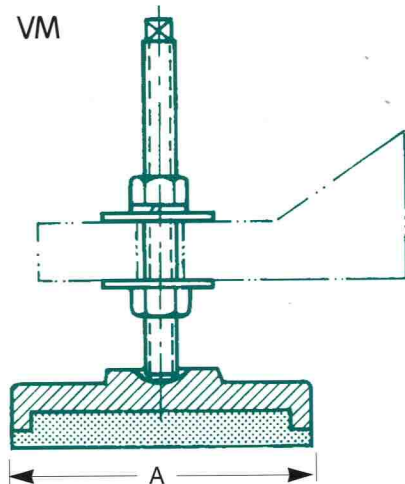


Type VM Machine Leveling Mounts are designed for installation of industrial machinery where the ratio of shear loads to vertical loads is less or equal to 1:5.

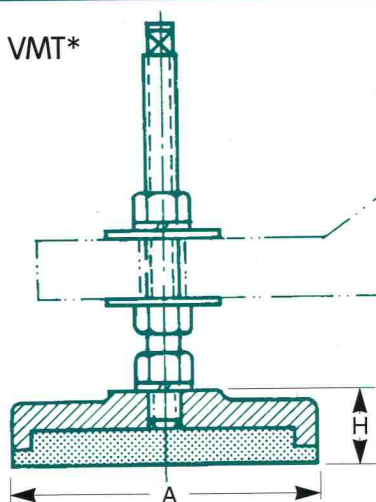
Self aligning compensates for uneven floors without sacrificing stability.

Scientifically designed Diamond Suction Cells of Neoprene insert firmly anchor the machine to the floor. Recommended for a wide range of industrial machinery and equipment where simple precise leveling is required.

VM



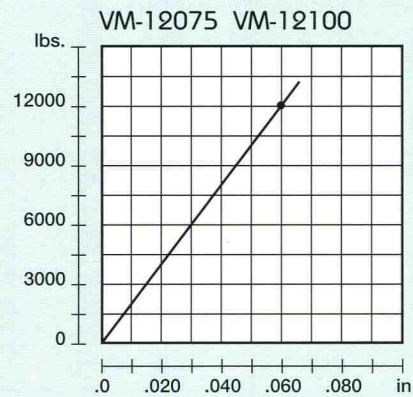
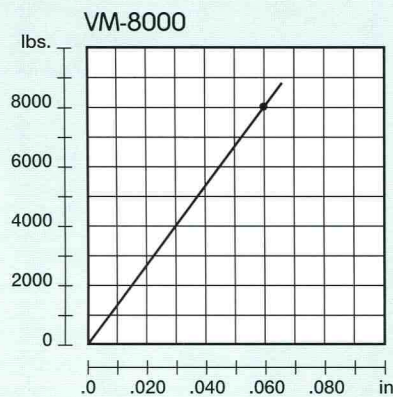
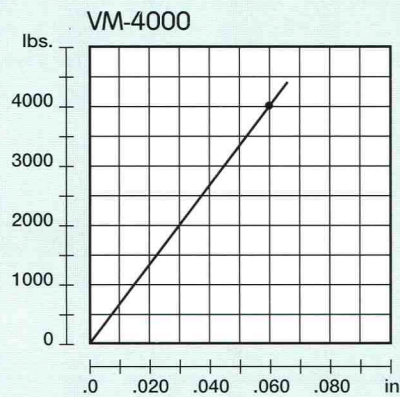
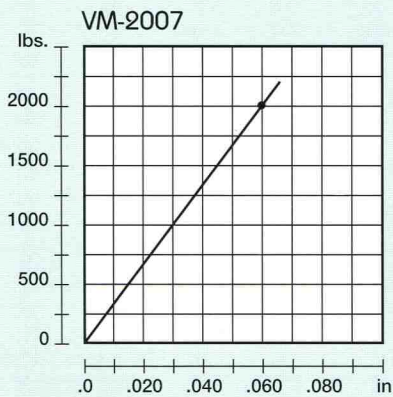
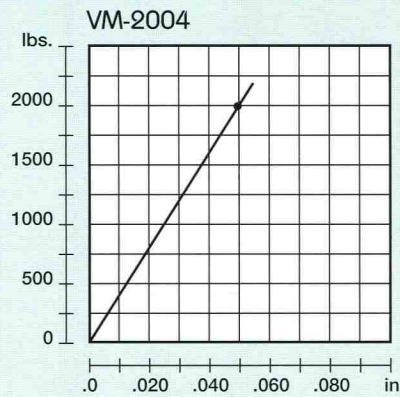
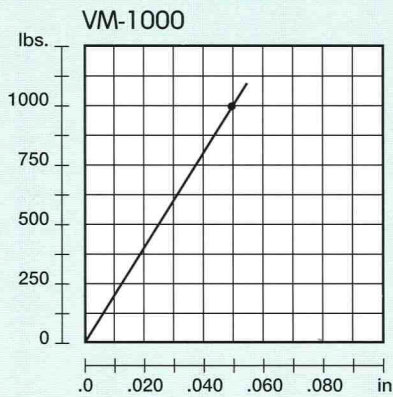
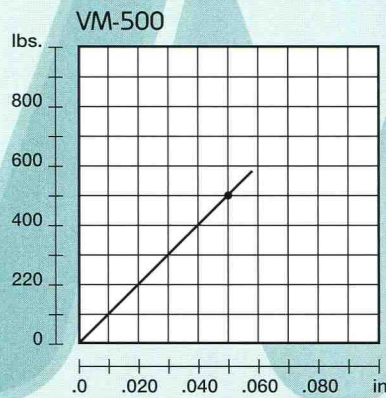
VMT*



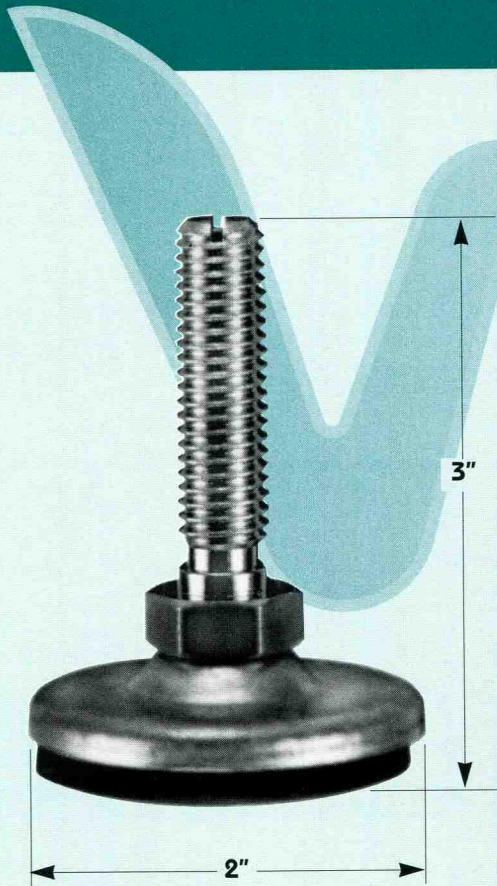
* Mounts with threaded base, type VMT, are available upon request. All dimensions, load chart are the same as per VM type mounts.

Type	MAXIMUM LOAD IN LBS.		Level Adjustment	Leveling Bolt Sizes	MOUNT DIMENSIONS	
	Non-Impact Machinery	Impact Machinery			A	H
VM-500	500	350	1.0"	1/2NC x 6"	4.0" dia.	1"
VM-1000	1,000	700	1.0"	1/2NC x 6"	4.0" dia.	1"
VM-2004	2,000	1,400	1.0"	5/8NC x 8"	4.0" dia.	1"
VM-2007	2,000	1,400	1.0"	3/4NF x 6"	7.0" dia.	1 1/4"
VM-4000	4,000	2,800	1.0"	3/4NF x 6"	7.0" dia.	1 1/4"
VM-8000	8,000	5,600	1.0"	3/4NF x 6"	7.0" dia.	1 1/4"
VM-12075	12,000	8,500	1.0"	3/4NF x 6"	7.0" dia.	1 1/4"
VM-12100	12,000	8,500	1.0"	1NS x 8"	7.0" dia.	1 1/4"

LOAD VERSUS DEFLECTION CHARTS

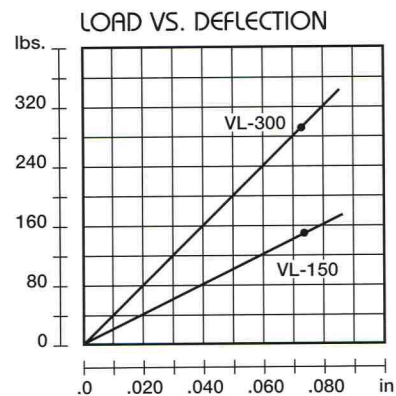


TYPE VL



- Fast simple precise leveling.
- Self aligning without sacrificing stability.
- Compensates for uneven floors.
- Save on installation, no cementing required.
- Necessary resilience for vibration absorption.
- Resistance to oil and cleaning compounds.
- Zinc plated to provide corrosion resistance.
- Can be reused.
- Low cost.

Standard size leveling mounts for heavier loads available from stock. Custom made mounts available upon request.



LOAD AND DIMENSION CHART

Type	MAXIMUM LOAD IN LBS.		Leveling Adjustment	Leveling Stud Size	Hardness of Neoprene
	Non-Impact Machinery	Impact Machinery			
VL 150-10	150	75	1.0"	3/8-16NC	50 Durometer
VL 150-12	150	75	1.0"	1/2-13NC	50 Durometer
VL 300-10	300	150	1.0"	3/8-16NC	70 Durometer
VL 300-12	300	150	1.0"	1/2-13NC	70 Durometer

TYPE VSCM

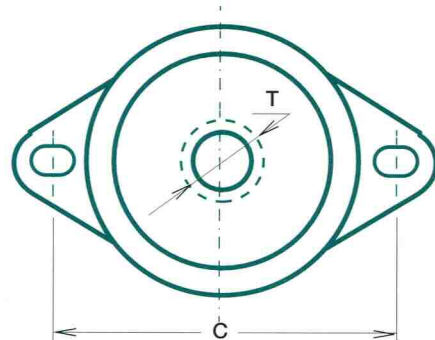
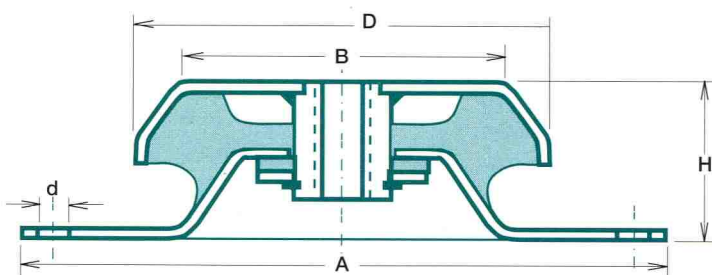
VSCM industrial cupmounts provide excellent protection against severe impact shock, vibration and noise.

Typical cupmount applications include fans, machinery, centrifuges, numerical control equipment, blowers, railroad equipment, converters, transformers, vehicular electronics, combustion engines, motors, control panels, marine and industrial gen sets, pumps and generators. Very suitable as well with wide assortment of workshop machines including press and punches.



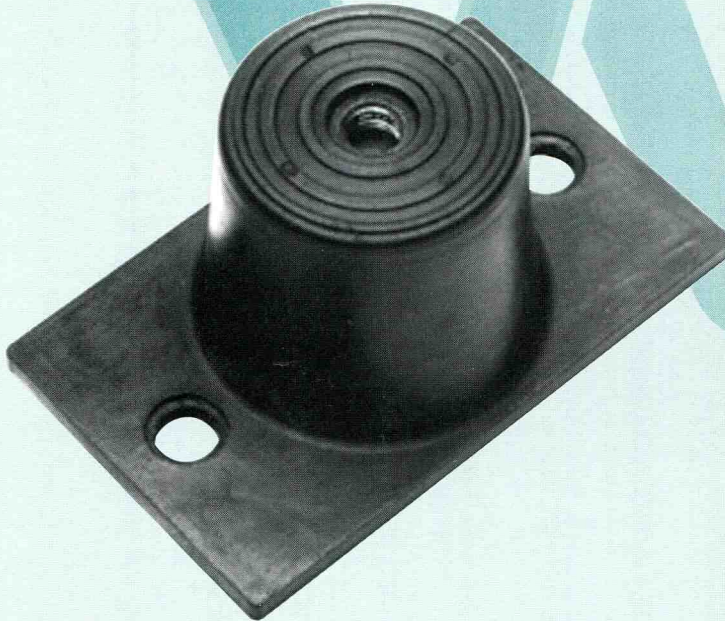
Specific features

- high vibration dampening characteristics
- fail-safe, rugged interlocking metal and neoprene construction provides exceptional performance against shear and compression forces and flexible vertically and stable horizontally
- metal cupmount component is cold-rolled steel coupled with an elastomer-in-compression design that effectively interrupts noise transmission path and eliminates sounding board amplification effects
- shock-proof device fitted as standard with resilient stop
- low-profile, compact design
- construction materials provide excellent corrosion protection
- the VSCM metal top plate is dome-shaped to guard against oil contamination
- high-grade neoprene elastomer provides resistance to oil and ozone encountered in industrial applications
- each side flange has through holes allowing for effective attachment to supporting equipment structure



Type	MAXIMUM LOAD IN LBS.		MOUNT DIMENSIONS IN INCHES						
	Non-impact Machinery	Impact Machinery	A	B	C	D	H	d	T
VSCM-1	400	250	6	2-3/4	5	3-5/8	1-3/8	.390	1/2 - 13
VSCM-2	700	450	6	2-3/4	5	3-5/8	1-3/8	.390	1/2 - 13
VSCM-3	1400	900	7-11/16	4	6-3/8	5-3/16	1-11/16	.550	5/8 - 11
VSCM-4	2600	1700	7-11/16	4	6-3/8	5-3/16	1-11/16	.550	5/8 - 11

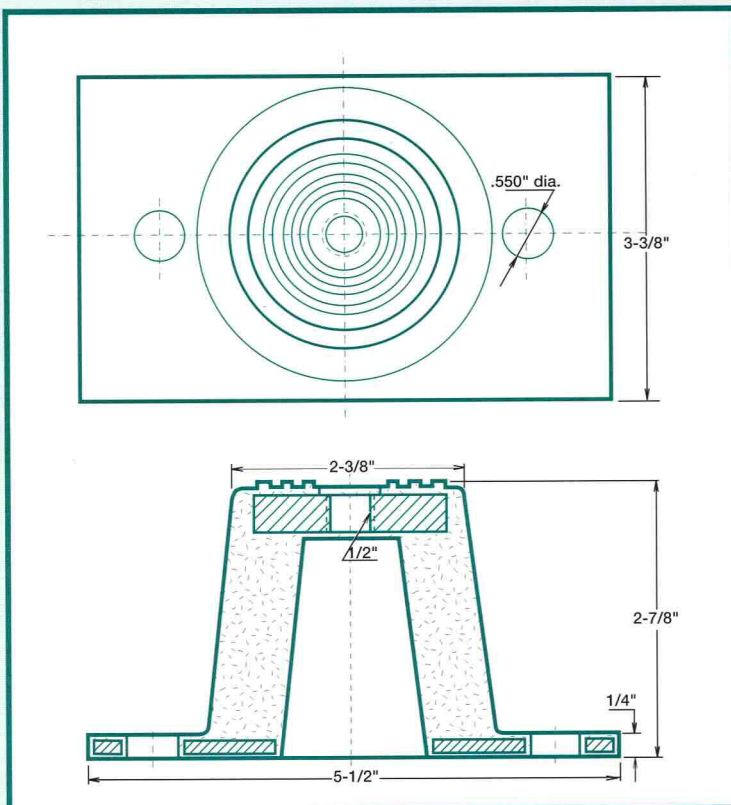
TYPE EDM



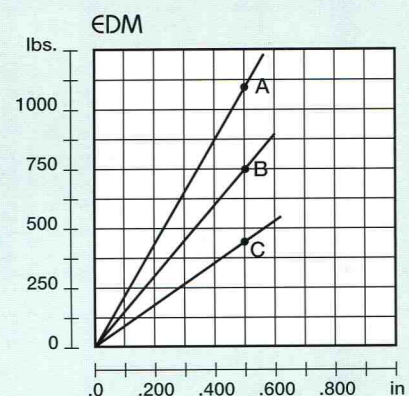
VibraSystem EDM (Extreme Deflection Mounts) are designed for applications where high deflection is required in order to effectively reduce magnitude of low frequency steady state vibrations, for reduction of sound amplification to a minimum and for providing soft impact landing.

Made from Neoprene and completely inclosed metal parts, this mount is one of the most durable and corrosion resistant available today.

Could be used for: vibratory screens, packaging applications, weighing seals, test cell equipment, elevators, noise control units, etc.



LOAD VS. DEFLECTION

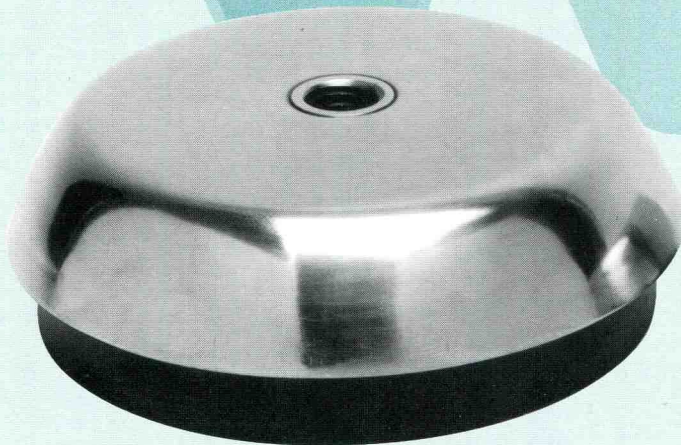


Max Load lbs		
A	B	C
1100	750	450

TYPE CSS

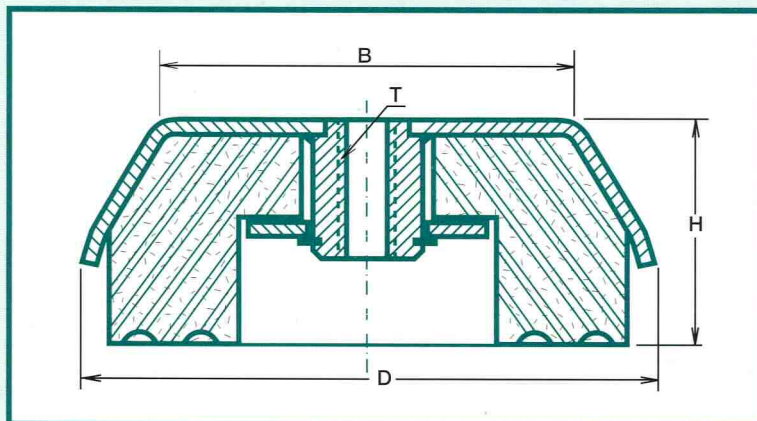
Vibra System Compression/Shear mounts type CSS provide excellent protection against shock, vibration and noise.

Those mounts are developed specially for applications in harsh working environments in food, pharmaceutical industries, or others where strict hygiene is required.



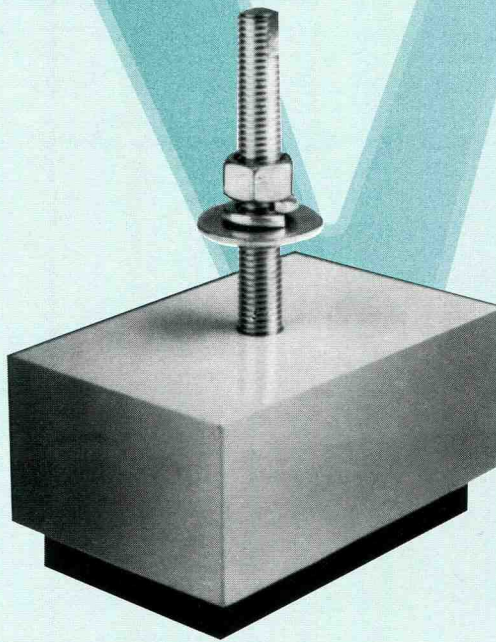
Specific features

- high vibration dampening characteristics
- stainless top plate is dome-shaped to guard against oil contamination
- low-profile, compact design
- elastomer insert is made from highly chemical resistant nitril with good deflection properties
- concentric rings on the base of the insert firmly anchor machine to the floor
- mounts ability to accommodate special attachments (*see page#20*).



Type	MAXIMUM LOAD IN LBS.		MOUNT DIMENSIONS IN INCHES			
	Non-impact Machinery	Impact Machinery	B	D	H	T
CSS-1	1200	800	2-3/4	3-5/8	1-3/8	1/2 - 13
CSS-2	1800	1200	2-3/4	3-5/8	1-3/8	1/2 - 11
CSS-3	2800	1800	4	5-3/16	1-11/16	5/8 - 11
CSS-4	4200	2800	4	5-3/16	1-11/16	5/8 - 11

TYPE VSM

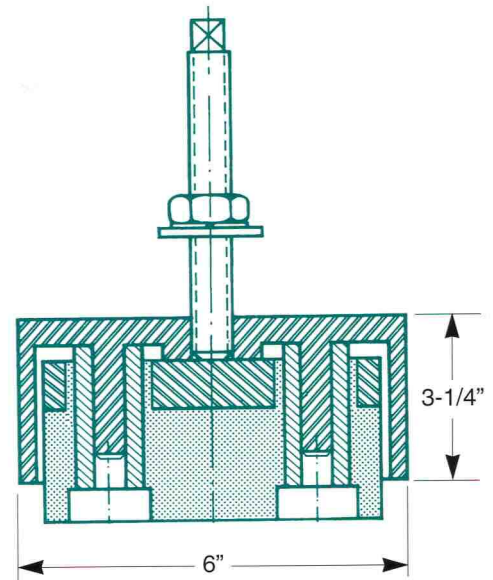
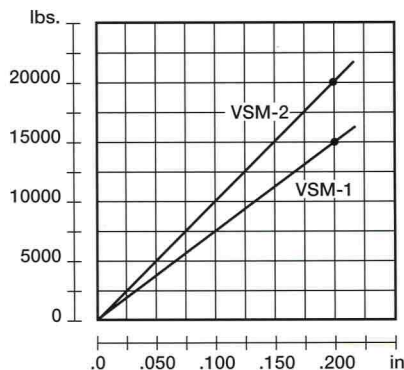


VibraSystem special mount type VSM is designed for applications where the vertical axis of the mount must be 90 degrees to the foundation.

A specifically built-in guiding system keeps the leveling cover parallel to the base surface at all times. A thick neoprene compound moulded to the bearing plate and guide bushings effectively reduce machine vibration and eliminate its transmission to and from the foundation.

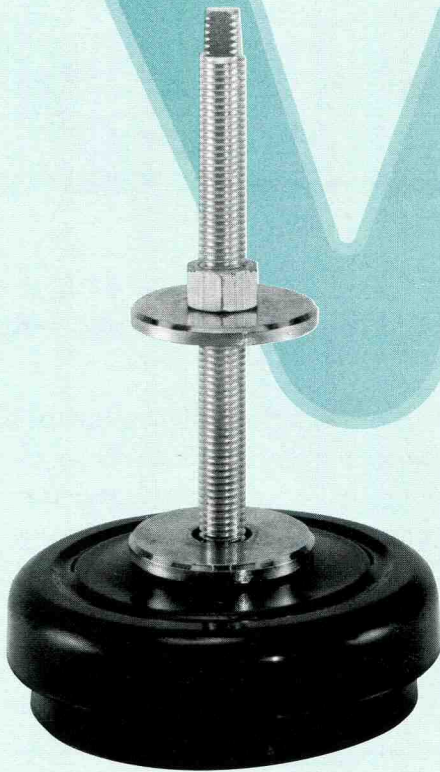
Recommended for vibration-sensitive equipment such as machines with NC controls and digital read-outs, laboratory equipment, laser and scanning systems and machinery where protection from external disturbing vibration and precision leveling is a must.

LOAD VS. DEFLECTION



Type	MAXIMUM LOAD IN LBS		Level Adjustment (Above Loaded Heights)	Leveling Bolt Sizes	MOUNT DIMENSIONS	
	Non-Impact Machinery	Impact Machinery			L x W	Free Height (No Load)
VSM-1	1,500	1,000	1/2"	5/8NC x 8"	6" x 4"	3-1/4"
VSM-2	2,000	1,200	1/2"	5/8NC x 8"	6" x 4"	3-1/4"

TYPE EVI-3



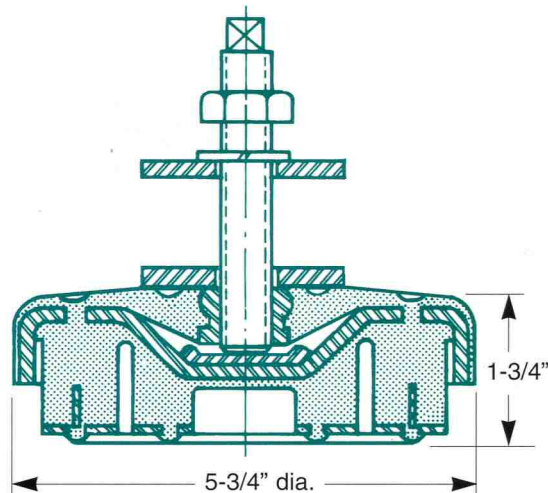
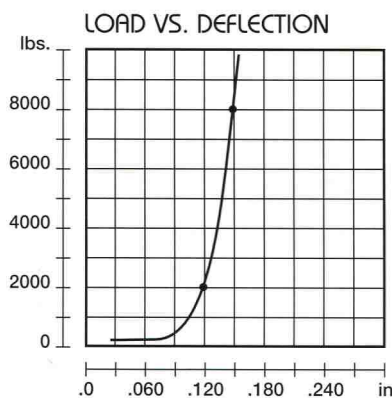
The weight of the machines is very rarely distributed evenly and the relative position of the heavy parts of the machine makes a weight distribution calculation very difficult. Consequently the imprecision of distribution lead to an inappropriate mount stiffness selection and drastic reduction in vibration isolation effectiveness.

The VSI type EVI-3 anti-vibration leveling mount design provides stiffness proportional to the load. This in turn always keeps the machine in a level position regardless of weight distribution during machine operation.

The natural frequency of machine oscillation on such mounts do not depend on the machines weight. The mount is known as a "Constant Natural Frequency" (CNF) Mount.

Manufactured from Nitrite rubber, this mount is the most durable and corrosion resistant available today.

Ideally suited for lathes, milling machines, grinding machines, printing machinery, presses and similar machinery.



Type	MAXIMUM LOAD IN LBS.		Level Adjustment (Above Loaded Heights)	Leveling Bolt Sizes	MOUNT DIMENSIONS	
	Non-Impact Machinery	Impact Machinery			Base	Free Height (No Load)
EVI-3	8,000	5,000	1/2"	5/8NC x 8"	5 3/4" dia.	1 3/4"

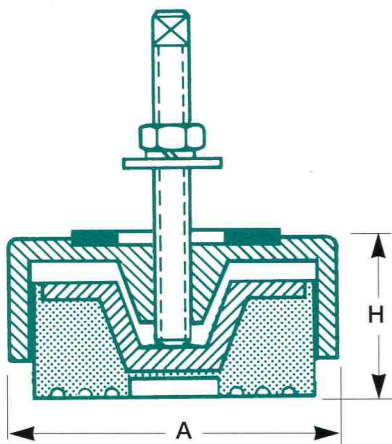
TYPE VS



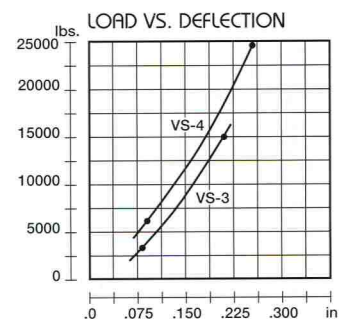
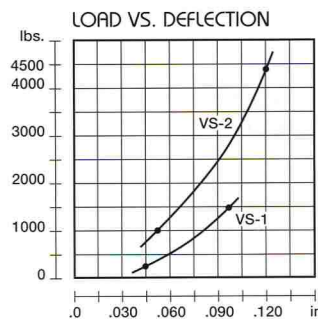
Compression/Shear Leveling Mounts are recommended specifically for applications having both compression and shear loads. Precision fitted Neoprene insert provides maximum dampening of shock and shear forces.

Concentric rings on the base of the insert firmly anchor the machine to the floor, preventing creeping or walking.

Type VS mounts are designed for installation of almost all workshop machines such as lathes, milling machines, punch presses, printing machinery, shears, brakes, injection moulding machines, grinders and similar equipment.



LOAD VS. DEFLECTION



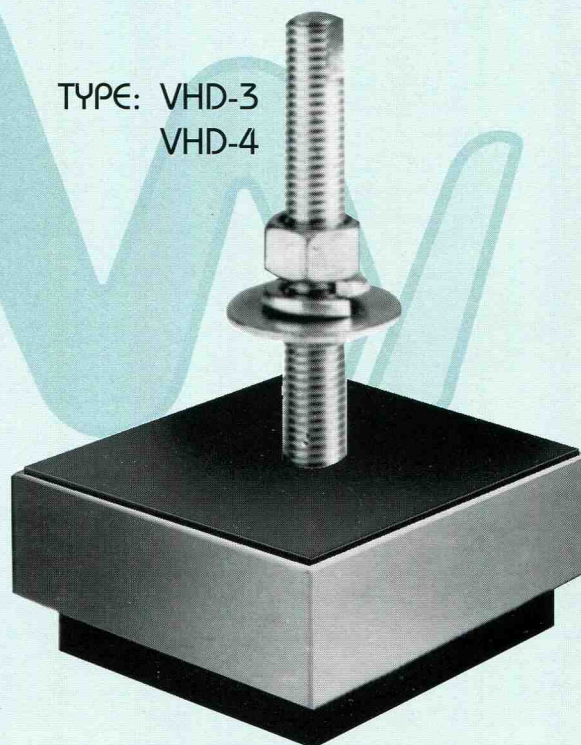
Type	MAXIMUM LOAD IN LBS.		Level Adjustment (Above Loaded Heights)	Leveling Bolt Sizes	MOUNT DIMENSIONS	
	Non-Impact Machinery	Impact Machinery			A	(No Load) H
VS-1	1,500	1,000	1/2"	1/2NC x 6"	3.5" dia.	1 7/8"
VS-2	4,500	3,000	1/2"	5/8NC x 8"	5.5" dia.	2 1/4"
VS-3	15,000	10,000	1/2"	1NS x 8"	10" dia.	2 1/2"
VS-4	25,000	16,000	1/2"	1NS x 8"	10" dia.	2 1/2"

TYPE VHD

TYPE: VHD-1
VHD-2



TYPE: VHD-3
VHD-4



VibraSystems Heavy Duty Mounts type VHD are developed specially for applications with loads ranging from 20,000 lbs. up to 100,000 lbs.

Special mounts for heavier loads available upon request.

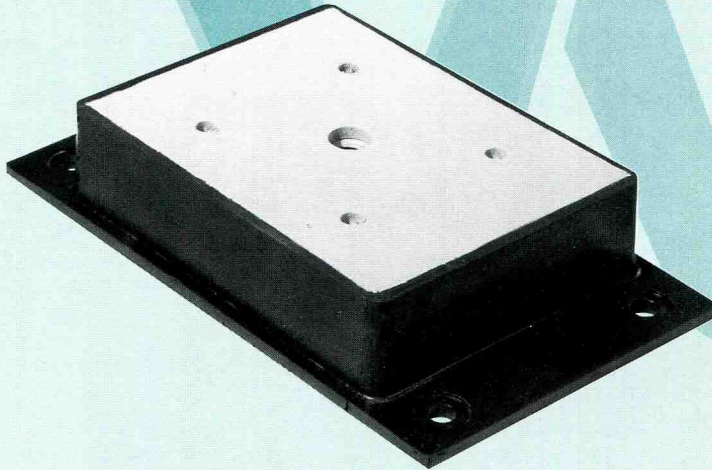
These mounts provide precise levelling, stability, high deflection, stiffness in vertical and horizontal directions as well as superb protection from impact - shock forces.

VHD mounts protect floors and eliminate structural damage to the buildings.

Recommended for the installation of very heavy equipment such as presses, hammers, injection moulding machines, crushers, rolling mill equipment, heavy vibrators, etc.

Type	MAXIMUM LOAD IN LBS.		Level Adjustment (Above Loaded Heights)	Leveling Bolt Sizes	MOUNT DIMENSIONS	
	Non-Impact Machinery	Impact Machinery			Base	Free Height (No Load)
VHD-1	30,000	18,000	1/2"	1 1/2NC x 12"	14" dia.	5-1/4"
VHD-2	50,000	30,000	1/2"	1 1/2NC x 12"	14" dia.	5-1/4"
VHD-3	70,000	40,000	1"	2NF x 12"	19" x 19"	7-5/8"
VHD-4	100,000	60,000	1"	2NF x 12"	19" x 19"	7-5/8"

TYPE VTM



Consists of rectangular elastomer component bonded with two steel plates.

Low installation height provides good stability.

Effectively isolates against horizontal and vertical vibrations.

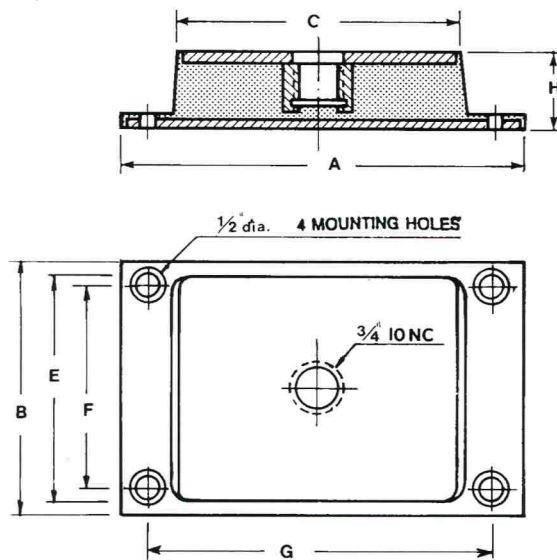
Has high deflection capacity in horizontal direction while deflection is low in vertical.

Oil and grease resistant

Meets O.S.H.A. anchoring standards.

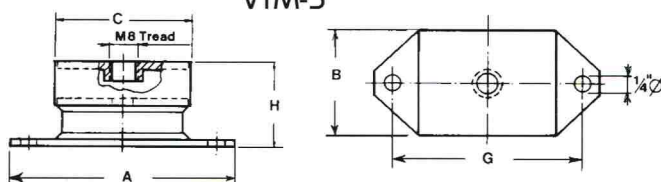
Ideally suited for presses, blowers, pumps, vibrators, rolling mills, crushes, heavy transformers, injection moulding machines and similar equipment.

VTM-10,15

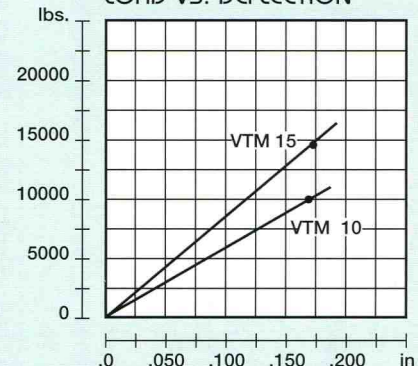


MODEL	SPECIFICATIONS							
	A	B	C	E	F	G	H	MAX. LOAD lbs.
VTM-10	12	7-1/8	8-1/2	6-1/2	5	10-3/8	2-1/4	10000
VTM-15	12	7-1/8	8-1/2	6-1/2	5	10-3/8	2-1/4	15000
VTM-5	3-1/2	1-5/8	2-1/8	-	-	3	1-3/8	500

VTM-5



LOAD VS. DEFLECTION



TYPE VWH

Vibra - Wedge mounts are designed for the installation and precision leveling of heavy industrial machinery.

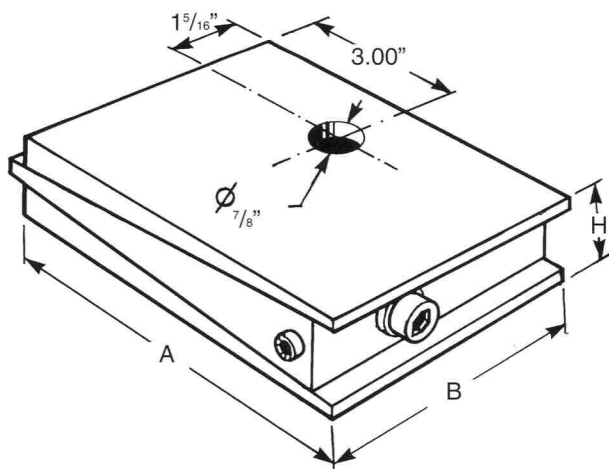
3 machined wedges are mounted and held together by a horizontal adjusting bolt. A lock screw secures the mount in the levelled position.



Keys in the sliding surfaces of the wedges ensure rigidity within the mount construction.

A special opening allows for bolting of the machine to the floor.

Vibra - Wedges permit accurate, precise and easy levelling. No additional shimming is necessary.



SPECIFICATION				
MODEL	A	B	H	MAX. LOAD lbs.
VWH -15	6"	4"	1-5/8" ± 3/16	15,000
* VWH -15R	6"	4"	2" ± 3/16	9,000

*Vibra-Wedge supplied with Neoprene top and bottom for vibration, noise and shock isolation.

NOTE: Max. Leveling is 1/4" (6mm.). If more height is required use a shim plate.

TYPE RB

Adjustable levellers and tube ends combine today's engineering know-how and the latest developments in manufacturing extra strong, durable, reinforced Polyimide Nylon Construction material. It has amazing load bearing capacity. Swivel stems compensate for uneven floors and are available in zinc plated or stainless steel. Rubber antivibration inserts are available for all styles of

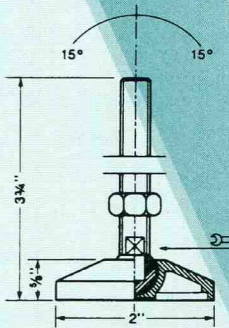
Levellers to guaranty good grip, non-slip contact with the floor.

Combination of nylon base and stainless steel stem is ideal for installation in pharmaceutical, food or chemical industries.

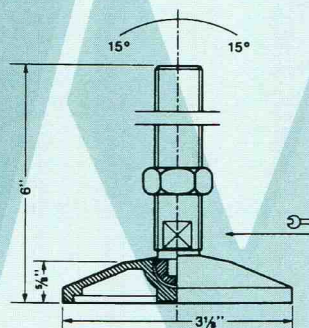
Applications vary from table top equipment to heavy machinery with shear loads not more than 5% of compression.



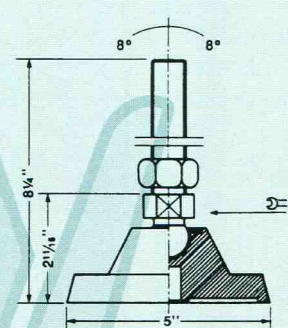
TYPE RB



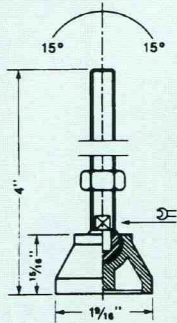
Load per Mount	Base Material	Stem Thread	Stem Material	Part Number
700 lbs.	Reinforced Polyamide (Nylon)	3/8-16	Stainless	RB110-3-S
		3/8-16	Zinc Plated	RB110-3-P
		1/2-13	Zinc Plated	RB110-4-P



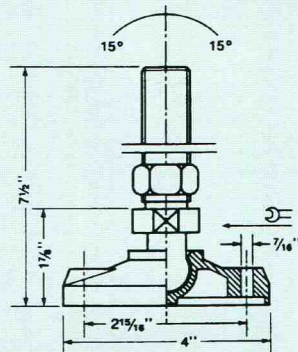
Load per Mount	Base Material	Stem Thread	Stem Material	Part Number
2200 lbs.	Reinforced Polyamide (Nylon)	1/2-13	Stainless	RB130-4-S
		1/2-13	Zinc Plated	RB130-4-P
		5/8-11	Zinc Plated	RB130-5-P



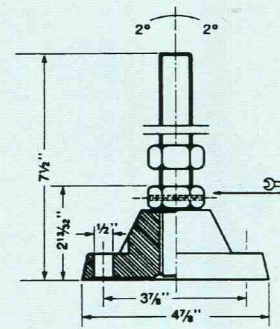
Load per Mount	Base Material	Stem Thread	Stem Material	Part Number
4500 lbs.	Reinforced Polyamide	3/4-10	Stainless	RB150-6-S
		3/4-10	Zinc Plated	RB150-6-P



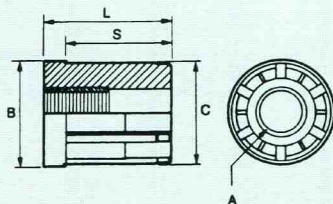
Load per Mount	Base Material	Stem Thread	Stem Material	Part Number
2200 lbs.	Reinforced Polyamide (Nylon)	3/8-16	Stainless	RB120-3-S
		3/8-16	Zinc Plated	RB120-3-P
		1/2-13	Stainless	RB120-4-S
		1/2-13	Zinc Plated	RB120-4-P



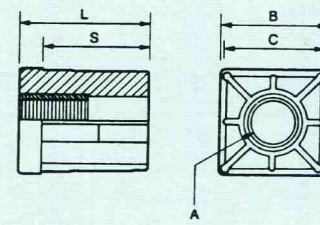
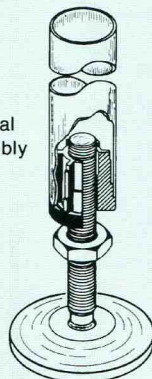
Load per Mount	Base Material	Stem Thread	Stem Material	Part Number
2200 lbs.	Reinforced Polyamide (Nylon)	5/8-11	Stainless	RB140-5-S
		5/8-11	Zinc Plated	RB140-5-P
		3/4-10	Stainless	RB140-6-S
		3/4-10	Zinc Plated	RB140-6-P



Load per Mount	Base Material	Stem Thread	Stem Material	Part Number
10,000 lbs.	Reinforced Polyamide (Nylon)	3/4-10	Stainless	RB160-6-S
		3/4-10	Zinc Plated	RB160-6-P
		1-8	Stainless	RB160-8-S
		1-8	Zinc Plated	RB160-8-P



Typical Assembly



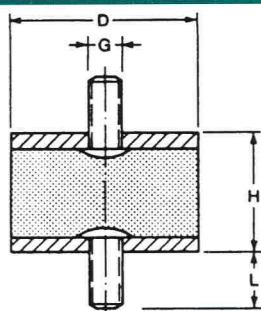
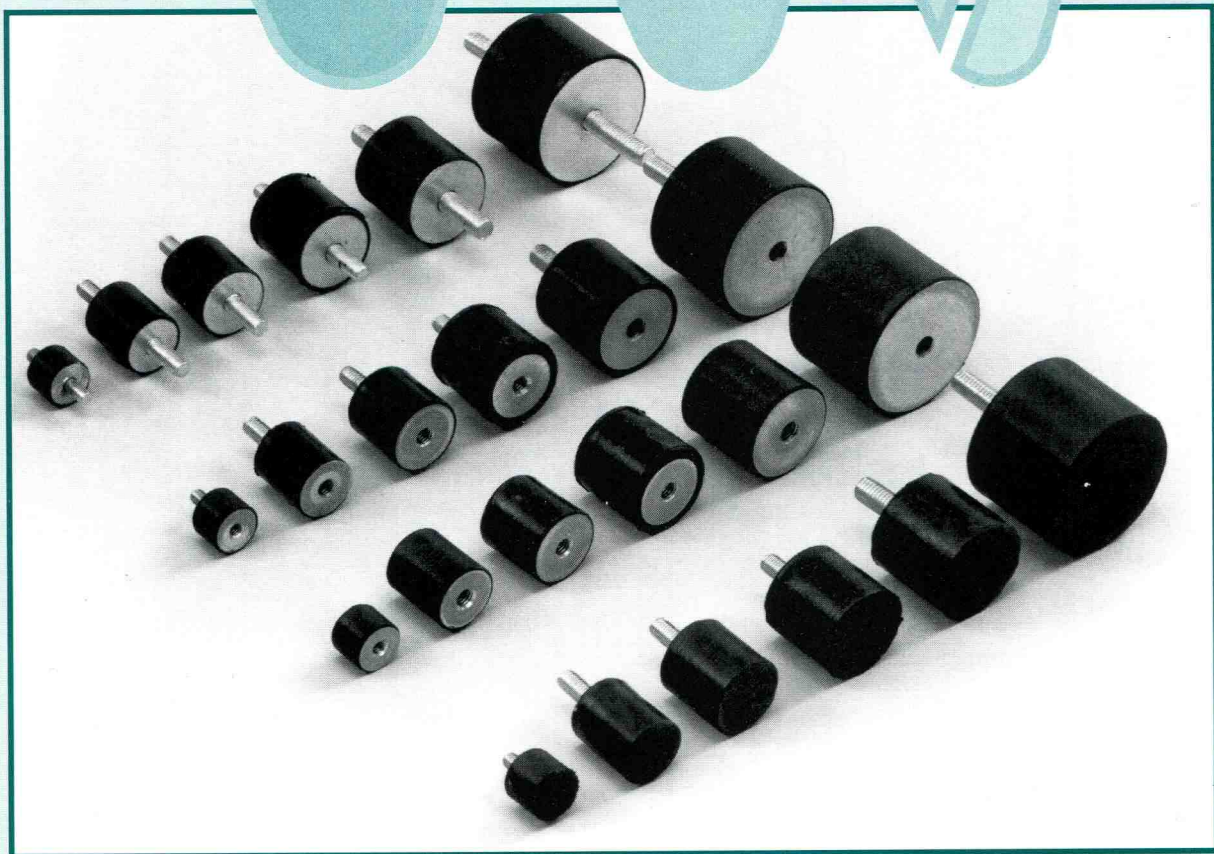
WORKING LOADS (Lbs.)	S DIM. (Inches)	L DIM. (Inches)	C DIA. (Inches)	B DIA. (Inches)	A THREAD SIZE	TUBE SIZE (O.D.xWall)	CATALOG NUMBER
1000	1.38	1.71	1.37	1.5	1/2-13	1.5x.065	RB280-4
					5/8-11		RB280-5
1760	1.77	2.19	1.87	2.0	1/2-13	2.0x.065	RB282-4
					5/8-11		RB282-5
					3/4-10		RB282-6

WORKING LOADS (Lbs.)	S DIM. (Inches)	L DIM. (Inches)	C DIM. (Inches)	B DIM. (Inches)	A THREAD SIZE	TUBE SIZE (O.D.xWall)	CATALOG NUMBER
1000	1.38	1.69	1.37	1.5	1/2-13	1.5x.065	RB290-4
					5/8-11	1.5x.075	RB290-5
	1.77	2.17	1.26	2.0	1/2-13	1.5x.120	RB291-4
					5/8-11		RB291-5
1760	1.77	2.17	1.78	2.0	1/2-13	2.0x.109	RB292-4
					5/8-11	2.0x.120	RB292-5
					3/4-10		RB292-6

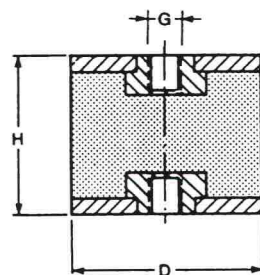
VIBRABOBINS

VSI bobbins are ideal for a wide range of applications and can be used effectively whenever simple and compact antivibration mountings are needed. They are suitable for load in compression as well as in shear. VSI bobbins have been successfully mounted on compressors, generators, air condi-

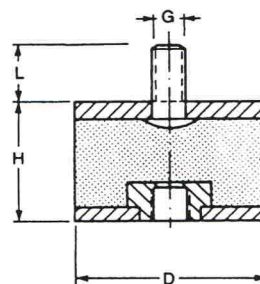
tioners, pumps, fans motors, lab equipment, scales, etc. Type TS bobbins are also used as bumpers and anti-skid pads. Custom made bobbins for special engineering applications are available upon request. Bobbins with UNC thread available for orders of more than 500 pcs.



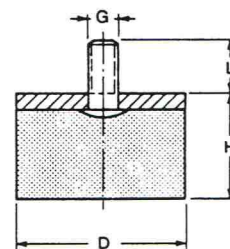
TYPE T



TYPE H



TYPE TH



TYPE TS

MODEL	D mm.	H mm.	G Thread	L mm.	Load lbs.
10-10	10	10	M-4	10	20
10-15	10	15	M-4	10	15
15-8	15	8	M-4	10	40
15-15	15	15	M-4	10	40
20-10	20	10	M-6	13	65
*20-15	20	15	M-6	13	55
20-20	20	20	M-6	13	55
*20-25	20	25	M-6	13	50
25-15	25	15	M-8	20	110
25-20	25	20	M-8	20	110
*25-25	25	25	M-8	20	85
*25-30	25	30	M-8	20	75
30-10	30	10	M-8	25	195
30-15	30	15	M-8	20	195
30-20	30	20	M-8	20	195
*30-30	30	30	M-8	20	175
30-40	30	40	M-8	20	130
*35-35	35	35	M-8	20	195
40-20	40	20	M-10	25	350
*40-30	40	30	M-10	25	330
*40-40	40	40	M-10	25	260
50-20	50	20	M-10	25	550
50-30	50	30	M-10	25	550
50-35	50	35	M-10	25	500
50-40	50	40	M-10	25	475
50-50	50	50	M-10	25	425
*60-25	60	25	M-10	30	875
60-35	60	35	M-10	30	750
*60-45	60	45	M-10	30	650
75-25	75	25	M-12	35	1400
75-40	75	40	M-12	35	1100
75-45	75	45	M-12	35	1100
75-55	75	55	M-12	35	1000
100-40	100	40	M-16	45	2500
*100-55	100	55	M-16	45	2400
100-75	100	75	M-16	45	2100
150-60	150	60	M-16	45	4800
150-75	150	75	M-16	45	4400
200-100	200	100	M-20	45	6500

* Small quantities available from stock.

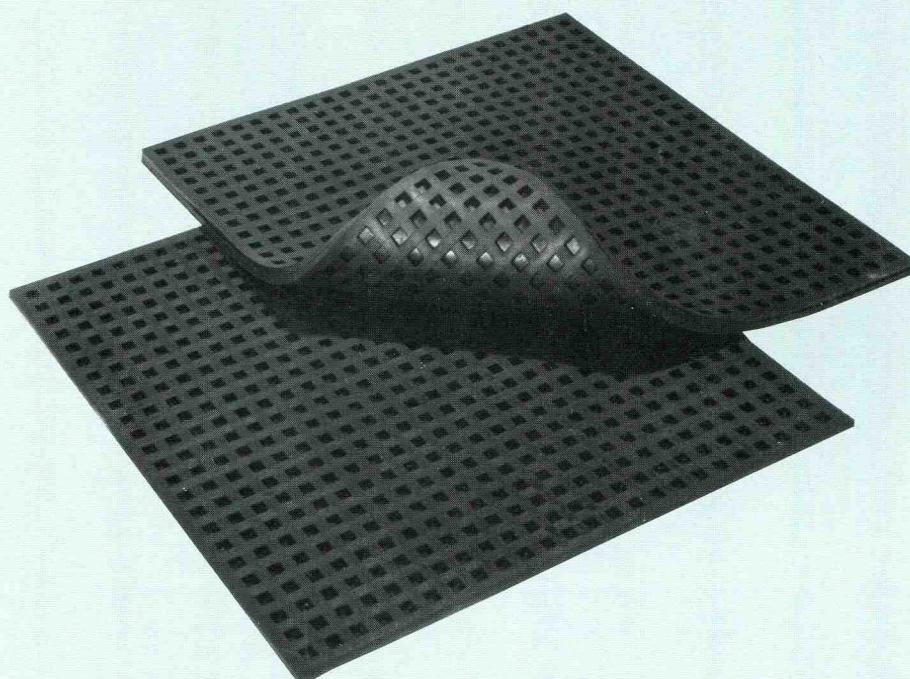
ANTIVIBRATION NEOPRENE PAD

The simplest and most inexpensive way to isolate vibration, shock and reduce noise level is to install machinery and equipment on 2 sided moulded waffle design VibraSystems Neoprene Pads.

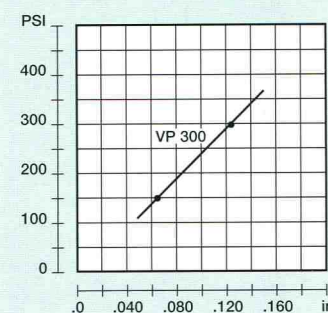
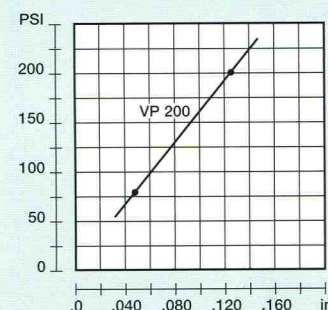
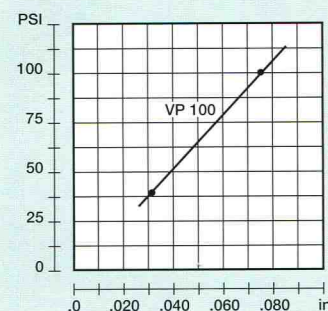
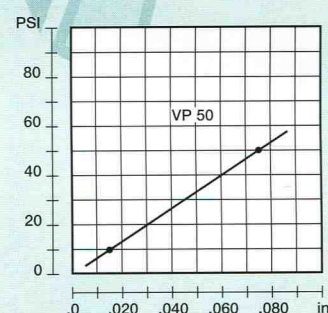
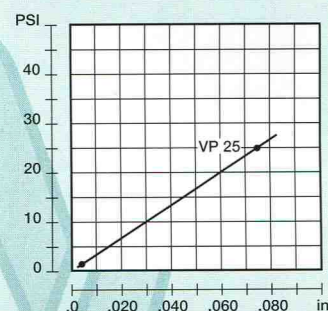
Fast easy installation:

Lift the machine to be mounted and slide the Vibration Isolating Pads under each leg. The moulded waffle design allows material expansion without loss of stability; maximum resilience and minimum creep. A firm footing is provided to the floor and equipment.

Vibrapads are resistant to oil and solvents. The pads should be cut to the size of the machine feet, allowing 1/2" margin on all sides.

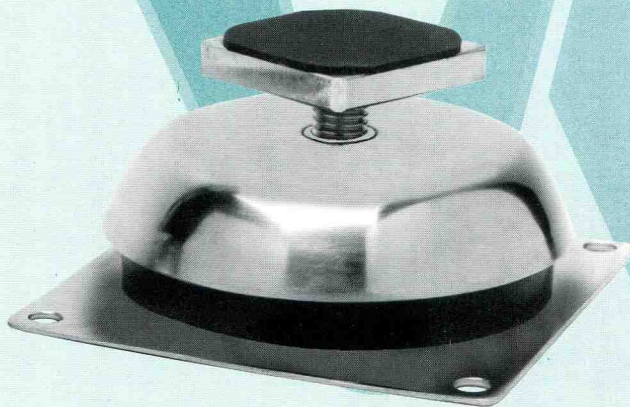


LOAD VS. DEFLECTION



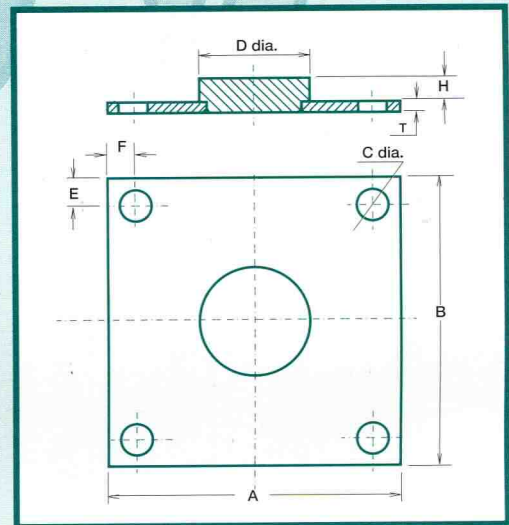
Type	Load Range	Size	Type	Load Range	Size
VP25	1-25 psi	18" x 18" x 5/16"	VP-25-6	1-25 psi	6" x 6" x 5/16"
VP50	10-50 psi	18" x 18" x 5/16"	VP-50-6	10-50 psi	6" x 6" x 5/16"
VP100	40-100 psi	18" x 18" x 5/16"	VP-100-6	40-100 psi	6" x 6" x 5/16"
VP200	75-200 psi	18" x 18" x 1/2"	VP-200-6	75-200 psi	6" x 6" x 1/2"
VP300	150-300 psi	18" x 18" x 1/2"	VP-300-6	150-300 psi	6" x 6" x 1/2"

ATTACHMENTS

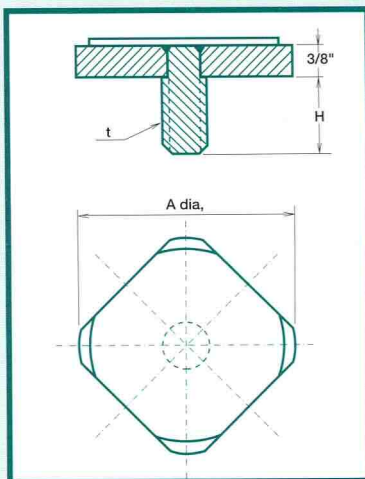


Type BP - Base Plates

BP Base Plates are special attachments to be used with CSS mounts in order to prevent machine from walking, without bolting it to the floor.



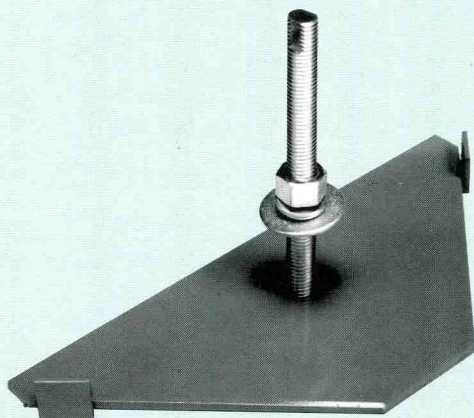
Type LP - Leveling Plates



VibraSystems - LP Leveling Plates could be used with CSS mounts for applications on equipment without fastening holes or in order to allow equipment leveling in hard to reach places.

TYPE	A	H	t
LP-1	2-1/2	7/8	1/2 NC
LP-2	3-1/2	1.00	5/8 NC

Dim	A	B	C dia.	D dia.	E	F	T	H
BP-1	4	4	7/16	1 1/2	3/8	3/8	.125	.250
BP-2	5 1/2	5 1/2	7/16	2	3/8	3/8	.125	.375



VMP-4 Bridgeport adapter plates

Fabricated from steel, 12" x 5 1/2" by 1/4" thick with 5/8 NC Thread, they are suitable for the installation of most hollow body machines such as Bridgeport, Lagun, etc. Bridgeport adapter plates are used primarily with VM-2004 compression type mounts. Sold in sets of four. Mounts are extra.

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.