

VISTA MOTION

Antivibration Solutions

Product Portfolio

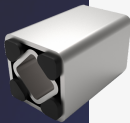


VISTA MOTION

An Evergreen Company

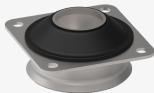
Never felt better.

Vista Motion understands the challenges our customers are facing on a day to day basis. We offer a wide range of solutions to meet the even most demanding applications. The state-of-the-art product and service we provide help our customers win by improving their quality, cost, and downtime.




Product Portfolio

- 1.ANB
- 2.Cab Mount
- 3.Cushyfloat Mounting
- 4.Cushyfloat HT Mounting
- 5.Cushyfloat HD
- 6.Cushyfoot Mounting
- 7.EH Mount
- 8.Equi-frequency Mounting - Small
- 9.Hydro Mount DL
- 10.Hydro Mount VL
- 11.Instrument Mount
- 12.Low Frequency Mountings
- 13.M Mounting
- 14.Eccentric Bush
- 15.Conical Mount
- 16.RA Mounting
- 17.RAB Mounting
- 18.RAEM Mounting
- 19.UD Bushes
- 20.UH
- 21.Vee-Mounting



Choice , expertise , availability.



Our solutions are focused on the below three key areas:

- **Vibration control.** We work with customers to analyze causes accurately and suggest economic and reasonable isolation solutions in order to maintain and preserve pleasant and silent environment as well as protect the equipment.
- **Noise reduction.** To protect people from noise, Vista Motion offers both active and passive solutions to reduce noise from either the machinery or environment.
- **Shock absorption.** Our smartly designed and carefully engineered shock absorbers effectively dissipate kinetic energy of the shock, thus protect your investment in machinery, building, and people.

Vista Motion is making efforts to make the company one of the best producers of vibration-proof products by continuously investing in R&D through sales growth.

Working in industry never felt better.

INDUSTRIAL APPLICATIONS

The smartly design and carefully engineered product Vista Motion offers has been widely adopted by customers from various industries. Our robust quality control and quick delivery make us a favored supplier of antivibration solutions.

Continuous improvement and innovation is key to our success. Our ultimate goal is to help customer create a safer environment for employees, maintain high output by reducing machine downtime, and stay ahead of competition.

Solutions for your market – Industrial

APPLICATION	TYPE OF MOUNT					
Stationary Installations Combustion Engines Compressors, Generators	 RA/W&M	 M	 CUSH/FLOAT	 RA/W&B	 VEE MOUNTING2	 CUSH/FOOT
Mobile Installations Vehicle Engines, Compressors, Generators, Marine Engines	 CUSH/FLOAT	 METACONE	 VEE MOUNT	 RA	 RADM	
Sensitive Equipment Electronics, Cameras, Fans, Small Pumps	 M	 EQU-FREQUENCY	 LDW FREQUENCY			
Transit Protection Computers, Test Equipment	 M					
Vehicles Engines, Cabs, ROPS Cage	 METACONE	 CAB MOUNTS	 LH	 HYDRD MOUNT		
Instrument Mounts Electronic Racks, Radio TX/RX, Mobile	 M	 INSTRUMOUNTS	 LDW FREQUENCY			
Motion Control Re-Bounds, Motion Limitation	 AMB					
Vehicle Suspension Pivot Arms, Trunnion Mounts, Gearbox Mountings	 VP/LD	 METACENTRIC BUSHES				
General Purpose Mounts Exhaust Systems, Small Fans, Instrument Panels	 METACONE	 M MOUNT				

Sustainable, productive, cost-effective.

INDUSTRIAL ENVIRONMENTS NEVER FELT BETTER

Through vibration control, noise reduction, and shock absorption, Vista motion work closely with our customers to create a pleasant and productive working environment. We have successful applications across different industries and we continue to invest in new technologies/products.

Our product lines cover mounts, bushers, buffers and customized product and solutions. Ease of installation and maintenance-free are well considered and engineered for each product we offer.

Choose Vista motion to be a quality supplier and partner you can rely on. When you win, we win!

ANB

Buffer type ANB consists of a cylindrical rubber body bonded to a square baseplate of steel. Each corner of the baseplate has a fixing hole. Special high-hysteresis rubber compound is used to ensure as much energy absorption as possible. The volume of the rubber is used at optimum efficiency. For new machine developments simpler designs and lighter calculated forces can be considered enabling a lower cost.

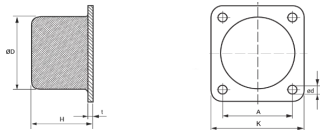
Through the damping of the rubber a high degree of energy absorption is achieved. The rubber is stiffer under dynamic conditions compared to static or pseudo static loading; hence more energy is absorbed for a given deformation.

The shock buffer type ANB is used to effectively limit movement of equipment or machine components.

Typical applications include:

- Lifting cranes
- Forestry vehicles
- Material handling equipment

TECHNICAL DRAWING



Cushyfloat HT Mounting

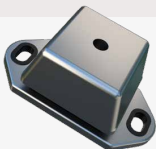
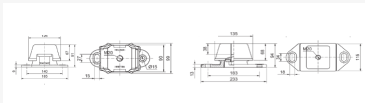
The Cushyfloat HT (High Thrust) mounting has been developed to meet the increased torque output and higher thrust load requirements of many modern marine power units. By careful design of the rubber section, relatively high degrees of flexibility in the vertical and lateral modes are combined with high stiffness in the longitudinal fore and aft direction, thereby giving good vibration isolation properties and minimum movement under thrust forces.

The design incorporates bump and rebound control features which limit excessive movements under shock loading. The mountings have a high inbuilt tensile strength which renders them suitable for the suspension of power units in lifeboat applications. The top gives protection against oil contamination and the protective finish resists corrosion attack. Two designs and different rubber compounds allow loads between 85 and 1070Kg to be accommodated.

Typical applications include:

- Marine Engines

TECHNICAL DRAWING



Cushyfloat HD

The latest generation of Cushyfloat is a completely new and innovative design which offers engine manufacturers and boat builders Maximum versatility. This product has multiple performance benefits for customers whose requirements may be varied and challenging for conventional solutions.

The HD Cushyfloat has excellent performance characteristics with:

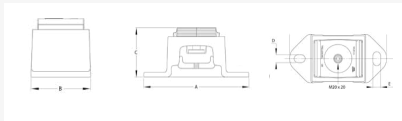
Up to 10mm linear vertical deflection, with low horizontal stiffnesses. This enables improved vibration isolation even at the low end of the engine speed range. Vertical and lateral buffering within the design limits the movement of the engine in tough service conditions.

The HD Cushyfloat provides simplicity for engine manufacturers and end users with: An interchangeable footprint with existing mountings; minimizing retrofit installation issues.

The entire range can be formulated from just three rubber mixes; therefore reducing inventory requirements and the complexity of product selection. Installation is aided by sighting grooves so that it is easy to align the engine, and ensure the correct load distribution.

More cost effective product life and serviceability due to its modular design. Upon refurbishment, the outer casting can be re-used.

TECHNICAL DRAWING



Typical Applications include:

- Marine/Industrial vehicle engines
- Generator sets
- Pumps and compressors

Cushyfoot Mounting

Cushyfoot mountings have two rubber elements, used in shear and compression, to provide excellent stiffness characteristics for the isolation of a wide range of vibration frequencies.

There are three sizes, 17-0290 for loads up to 230 kg per mounting, 17-0213 for loads up to 1250 kg and 17-0346, which will carry up to 1280 kg per mounting, will provide up to 16 mm static deflection.

The Cushyfoot mounting benefits from the following features:

- A wide load range from 50 to 1280 kg
- Strong casting for safety and reliability
- Dissimilar horizontal stiffness gives optimum isolation and motion control

Typical applications include:

- Diesel engines
- Generator sets
- Compressors
- Fans
- Hydraulic units
- Lift machinery



EH Mount

The EH is designed primarily for mobile applications where high dynamic and shock forces are encountered. Dynamic vertical movements in both the directions are restricted and excellent horizontal stability is provided.

The function of EH includes features as:

- Dynamic efficiency in all directions
- Attenuation of structure-borne noise
- Accommodation of misalignment and distortion
- Simple design-easy to install
- Fail-safe installation
- Wide load range, 40 to 1200 kg

Typical applications include:

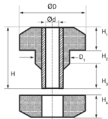
- Military vehicles
- Agriculture vehicles
- Construction equipment
- Transport machinery
- Industrial mobile machinery



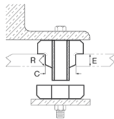
TECHNICAL DRAWING



TECHNICAL DRAWING



MACHINE IN OPERATION



Equi-frequency Mounting – Small

This is a general purpose low-profile mount for use where space is restricted. Best suited for stationary applications. May also be used to protect delicate or sensitive equipment from shock or disturbances.

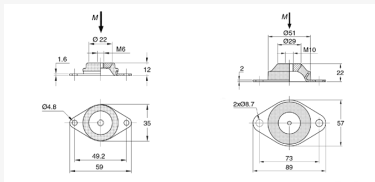
Each design has the same stiffness in vertical and horizontal directions and can be used as small anti-shock mounting when static loadings are derated.

Typical Applications:

- Instrumental panels
- Small fan sets
- Small vacuum pumps
- Small reciprocating engines



TECHNICAL DRAWING



Hydro Mount DL

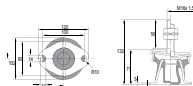
The Hydro Mount DL, as a hydraulically damping rubber mount, solved the designer's conflict of how to mount a mass that is excited by wide frequency spectrum. Particularly if low frequencies between 5 Hz and 15 Hz can occur as the excitation frequency, on the one hand high damping in the natural frequency range of the system, and on the other, a good isolation property above this natural frequency (supercritical mounting) is necessary.

Typical Applications include:

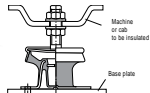
- Pumps
- Compressors
- Utility vehicle engine mount
- Marine engine mount
- Driver cab mount

TECHNICAL DRAWING

HYDRO MOUNT DL / HD



TYPICAL FITTING ARRANGEMENT



Hydro Mount VL

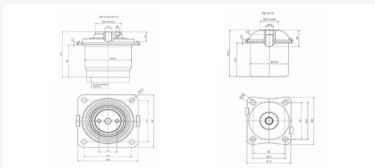
The mount design, the chosen fluid and the hydraulic mechanism provide the characteristic wide-band damping. In cases with remote excitation frequencies in the lower frequency range, the use of this hydro mount permits an optimal mounting. By precise reduction of the fluid chamber stiffness of one of the chambers, a significantly improved compromise of effective vibration reduction and structure-borne sound isolation is achieved as opposed to the hydro mounts without this design.



Typical Applications Include:

- Agriculture engines
- Construction vehicle engines
- Industrial vehicles
- Forest machinery
- Pumps and compressors

TECHNICAL DRAWING



Instrument Mount

Instrument mounts are utilised for vibration insulation of electronic components, measuring devices and precise mechanical apparatuses and for instrument panels or control panels in industrial applications. A common requirement of these mounts is that they keep vibrations or shock loads introduced via the anchorages away from the instrument or device. The mounts help to protect sensitive instruments from external shock loads in mobile and non mobile use.



Typical Applications Include:

- Small electrical engines
- Electrical pumps

TECHNICAL DRAWING

PLATE FIXED INSTRUMENT MOUNT

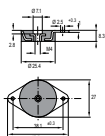
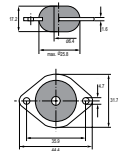
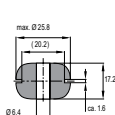


PLATE FIXED INSTRUMENT MOUNT



GROMMET STYLE INSTRUMENT MOUNT



Low Frequency Mountings

The Low Frequency mounts are designed for shear as well as compressive loads. Continual tensile load should be avoided.

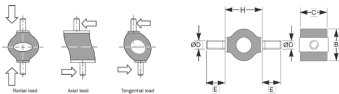
These antivibration mounts are designed to give large deflection for small loads and are used to protect suspended equipment against vibration and impact.

Typical applications include:

- Light instruments
- Light fans and compressors
- Computer and electronic units
- Shock mounting for light applications

TECHNICAL DRAWING

DI RECTIONAL LOADING



M Mounting

The M-Mounting is ideal for applications involving isolation of low frequency vibration on all planes. Also suitable for shock attenuation due to the designed ability to offer large deflections. Provides passive vibration isolation on electronic instruments, measuring equipment and test cells.

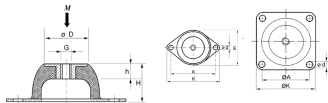
The M mount is specifically designed to give large deflection at low loads. Although the mount design allows high deflection, the mountings are compact in weight and easy to install.

The M mounts are a high performance antivibration mount with a number of advantages:

- Tight tolerance on dynamic stiffness rates for accurate vibration calculations
- Wide load rating options, 3.5-2500 kg
- Corrosion protected to cope with arduous environments on land or marine applications (ISO 2081)

When using M mount together with the height adjuster HA, it is necessary to use a washer. The diameter of the washer must be 20% larger than the diameter of the upper plate (D).

TECHNICAL DRAWING



Eccentric Bush

Metaxentric bushes have a large rubber section with the central pin offset towards one radial plane.

These bushes can provide a relatively large radial deflection whilst providing excellent motion control characteristics.

The bush has the following features:

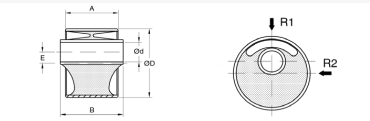
- Three dissimilar translational stiffnesses for the best vibration isolation and motion control.
- Load range from 138 - 464 kg
- Rising rate stiffness characteristics for overload conditions help to limit motion and transmitted acceleration.
- Robust and fail-safe, suitable for ROPS and FOPS cab structures.
- Simple to fit, the housing lends itself to robust structures.

Metaxentric Bushes are similar to conventional UD Bushes but with inner and outer sleeves offset radially. This feature provides a greater rubber thickness and hence increased flexibility in the normal direction of loading, whilst maintaining control in other modes and still allowing torsional movement. The rubber section is relieved to eliminate harmful tensile stresses.

Typical Applications Include:

- Vehicle spring eye mounting
- Tilt Cab pivot bush
- Engine mounting

TECHNICAL DRAWING



Conical Mount

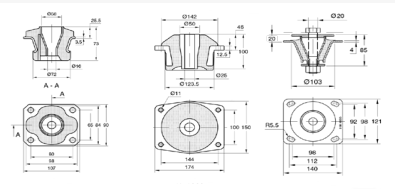
The metacone product range is designed for high load capacity with relatively large static deflections. The high loading for a given size is achieved by utilizing the rubber to best advantage in shear and compression. Typically the mountings are assembled with overload and rebound washers to control and limit movement of the suspended equipment under shock loads. Centre fixing bolts should be torque tightened to the recommended values.

Their compact fail-safe design is available for a wide range of loadings, with in some cases, alternative fixings. Cut-outs in rubber sections on various sizes provide different vertical/horizontal stiffness ratio.

Typical Applications Include:

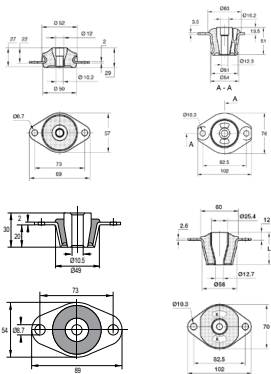
- Off-highway and road vehicle engines
- Vehicle cabs
- Oil tanks/ tankers

TECHNICAL DRAWING



Conical Mount

TECHNICAL DRAWING

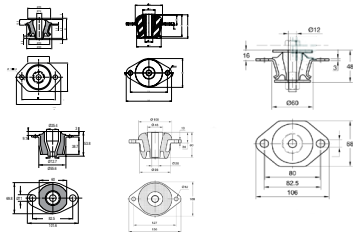


Conical Mount

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TECHNICAL DRAWING



Typical Applications Include:

- Off-highway and road vehicle engines
- Vehicle cabs
- Oil tanks/ tankers

Conical Mount

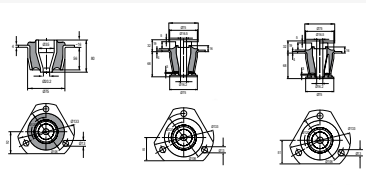
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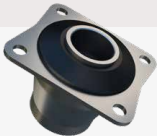
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TECHNICAL DRAWING

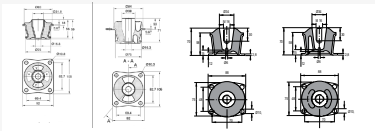


Conical Mount

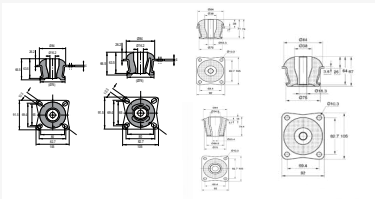
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TECHNICAL DRAWING



TECHNICAL DRAWING



Conical Mount

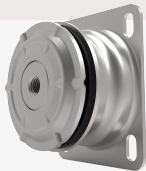
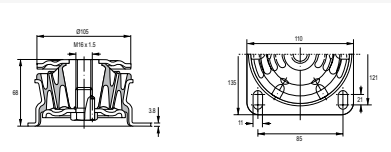
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Their compact fail-safe design is available for a wide range of loadings, with in some cases, alternative fixings. Cut-outs in rubber sections on various sizes provide different vertical/horizontal stiffness ratio.

Typical Applications include:

- Off-highway and road vehicle engines
- Vehicle cabs
- Oil tanks/ tankers

TECHNICAL DRAWING



Conical Mount

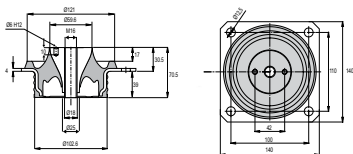
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Typical Applications Include:

- Off-highway and road vehicle engines
- Vehicle cabs
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TECHNICAL DRAWING



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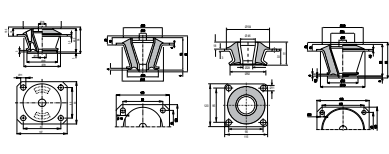
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Their compact fail-safe design is available for a wide range of loadings, with in some cases, alternative fixings. Cut-outs in rubber sections on various sizes provide different vertical/horizontal stiffness ratio.

Typical Applications Include:

- Off-highway and road vehicle engines
- Vehicle cabs
- Oil tanks/ tankers

TECHNICAL DRAWING



RA Mounting

RA mount uses the rubber profile in shear and compression to obtain good vertical flexibility with the advantage of horizontal stability. For normal speeds of approx. 1500 RPM, the RA provides a degree of isolation of 75-85%. For better isolation, the alternative RAEM or M-Series can be chosen.

The RA are a high performance mount, with a number of advantages:

- Rubber features are utilized effectively combining compression and shear wide load rating options, 40-2100 kg
- Corrosion protected to cope with arduous environments on land or marine applications
- Domed shape cover to protect against oil contamination
- Fitted as standard with an integral fail-safe device with resilient stop, making the RA ideal for use in mobile applications

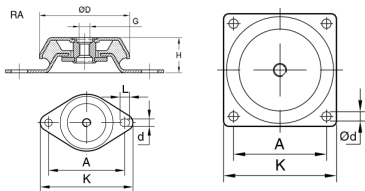
Typical Applications Include:

- Pumps
- Fans
- Converters
- Compressors
- Combustion engines
- Industrial and Marine gensets
- Generators
- Also suitable for use with presses, punches and other work shop machines



RA Mounting

TECHNICAL DRAWING



RAB Mounting

Similar in design to the RA and RAEM range, the RAB uses rubber in shear and compression for optimum stiffness characteristics and horizontal stability. Especially effective on small 1, 2 and 3 cylinder diesel engines where the special compound employed provides effective isolation of vibration while eliminating much of the excessive movement normally associated with 1-3 zinc plated cylinder engines.



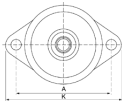
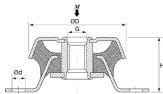
The RAB are a high performance mount which have a number of advantages:

- Rubber features are utilized effectively combining compression and shear
- Tight tolerances on dynamic stiffness rate for accurate vibration calculations
- Loading rating options, 10-130 kg
- Corrosion protected to cope with arduous environments on land or marine applications
- Fitted as standard with an integral fail-safe device with resilient stop, making the RA ideal for use in mobile applications
- Domed shape cover to protect against oil contamination
- The RAB mounts can accommodate occasional vertical shock loads up to 5G and shock loads up to 2G in other directions

Typical Applications include:

- Pumps
- Diesel engines
- Marine and Industrial gensets
- Emergency power packs

TECHNICAL DRAWING



RAEM Mounting

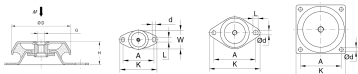
The RAEM is a universal mounting for applications demanding MAXimum vibration isolation. It is a further development of the RA mount, where EM stands for 'extra movement' and is suitable for both light and heavy machines.

For normal speeds of 1500 RPM the RAEM type provides a degree of isolation of 85-95%, and gives good isolation with low frequency machines.

RAEM is a high performance mount, with a number of advantages:

- RAEM offers nominally 70% extra deflection over standard RA mounts
- Wide load rating options, 30-3400 kg
- Corrosion protected to cope with arduous environments on land or marine applications
- Fitted as standard with an integral fail-safe device with resilient stop, making the RA ideal for use in mobile applications
- Domed shape cover to protect against oil contamination
- The RAEM mounts can accommodate occasional vertical shock loads up to 5G and shock loads up to 2G in other directions

TECHNICAL DRAWING



Typical Applications include:

- HVAC units
- Marine gensets
- Industrial gensets
- Refiners
- Compressors
- Industrial fans
- Large milling machinery

UD Bushes

UD bush consists of two concentric sleeves with rubber securely bonded between them. Designed to accommodate torsional movements, axial and radial loads. The rubber is pre-stressed to give maximum dynamic strength and durability.

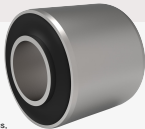
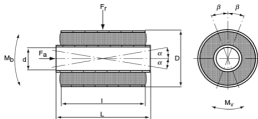
The bonded rubber takes up full movement. Therefore, lubrication or other bearing maintenance is not required. The bush has excellent sound and vibration isolation characteristics, enabling structures fitted with the sleeves to be silent and vibration free.

For vehicle suspension, pivot arms and all types of mechanical linkage, this mount permits oscillating movement through the deflection of rubber in shear. Suitable to replace roller bearings where small motions are required (up to 20 degrees). Reduces shock loads and noise transmission in structures.

Typical Applications include:

- Vehicle suspension arms
- Vibratory feeders
- Conveyor tracks
- Mechanical linkages
- Pivot bearings

TECHNICAL DRAWING



UH

UH is an antivibration mounting designed to accommodate axial static and shock loads in both directions. The dynamic natural frequency is constant irrespective of the static load.

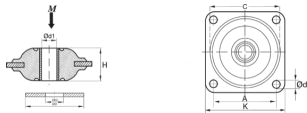
Mounting type UH is particularly suitable for the suspension of both mobile and static cabs as well as platforms on agricultural vehicles. When fitted with overload/rebound washers, a high strength fail-safe installation is provided.

Moreover, it is possible to alter the characteristics of the mounting by providing a dome-shaped washer at the upper rubber section. This will provide impact resistance to deflection beyond the permissible limit. Effectively isolating vibration and noise, the UH mounting also protects tanks and ancillary equipment against metal fatigue caused by chassis distortion.

Typical Applications Include:

- Tractors
- Excavators
- Lifting cranes
- Forklift trucks
- Forestry vehicles
- Off-road equipment

TECHNICAL DRAWING



Vee-Mounting

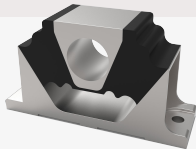
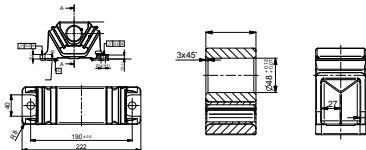
Vee-Keillager have ideal stiffness characteristics for rail vehicle engine suspension. The vertical stiffness rate ensures that when the mounting is properly loaded, the vertical natural frequency does not coincide with the body bending frequency and the high longitudinal stiffness controls shunting shock motion. The mounting is usually connected to the solebars via the base casting, and a buffer is attached to the Vee section casting to limit tensile loads.

Vee-Keillager has the following features:

- Three dissimilar translational stiffness for the best vibration isolation and motion control
- Strong castings for safety and reliability

A high load capacity mounting with relatively large rubber volume providing a high degree of vibration and noise isolation and makes it ideally suited for suspending engines installed in public service and goods vehicles.

TECHNICAL DRAWING





VISTA MOTION

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