



NINJA

SPRINGS

Made in Great Britain



Expert Manufacturers of Resilient Hangers
and Vibration Isolation Equipment.

Spring
hangers



Flexible
Connections



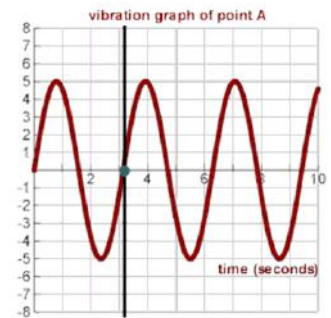
Spring
Mounts

www.NinjaSprings.com

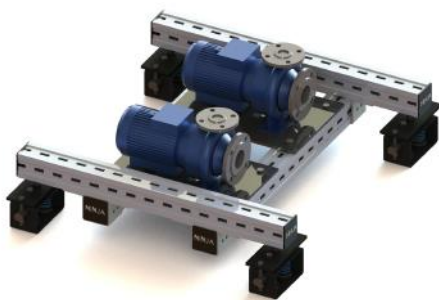
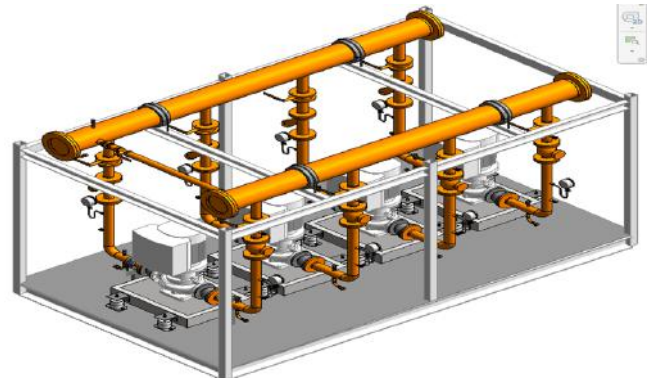
Do you know the Isolation efficiency of your system?



Vibration comes from many Sources. Often generated by rotating plant or movement of large moving objects.
Vibration moves in waves



The waves have a unique frequency dependent on the equipment they emanate from. The specific "Forcing Frequency" can be High or Low frequencies, these will require a different method of isolation.



Transmission to the building fabric creates noise issues. Vibration can be mitigated at source, this can be achieved with:

- Breaks in materials
- Spring mounts
- Spring hangers
- Rubber dampeners



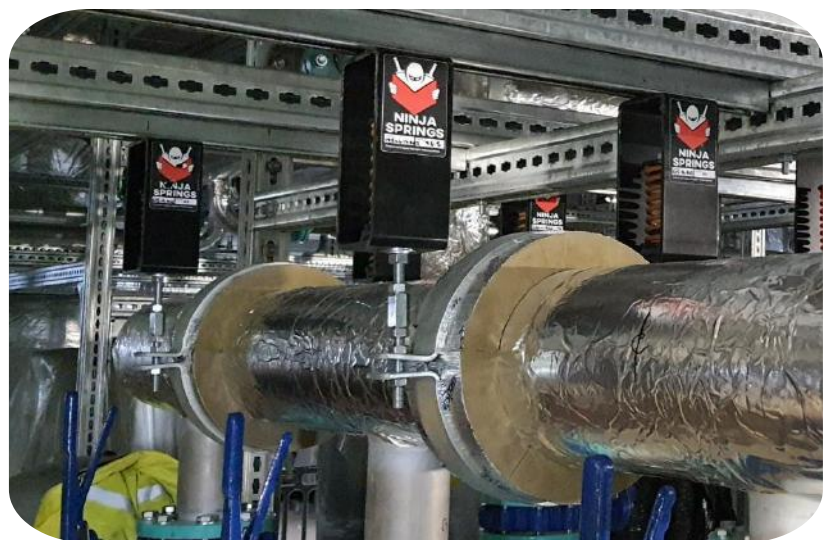
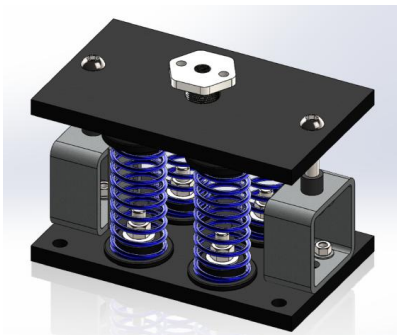
Plantroom Vibration Solutions



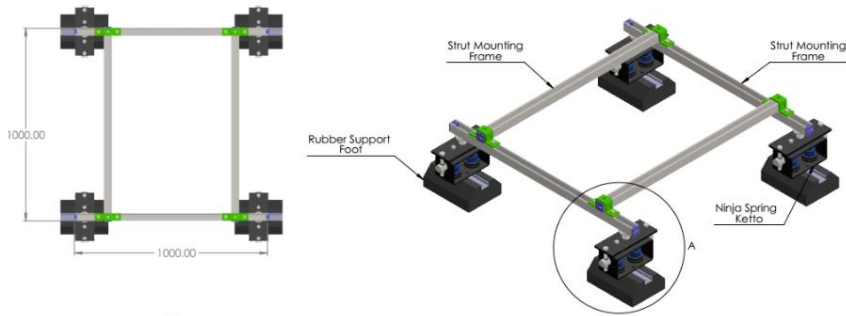
Floor Mounted Isolation spring supports, perfect for absorbing unwanted Vibration from the Skidded Pipework or mounting directly under rotating plant equipment.

A full range of Spring hangers, perfect for absorbing unwanted Vibration from the Pipework, Equipment and any rotating plant.

SUMOS



Achieving up to 99.9% vibration isolation efficiency!



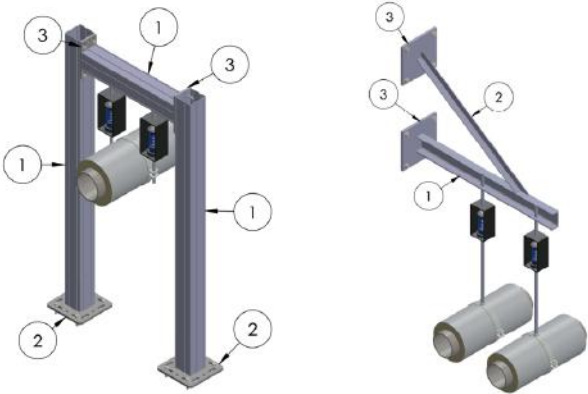
Modular and Bespoke Mounting Frames for roof plant

A full range of externally suitable Spring supports, for absorbing unwanted Vibration from equipment including Pumps, AHU, Cooling Towers and Chillers and the connecting pipework.

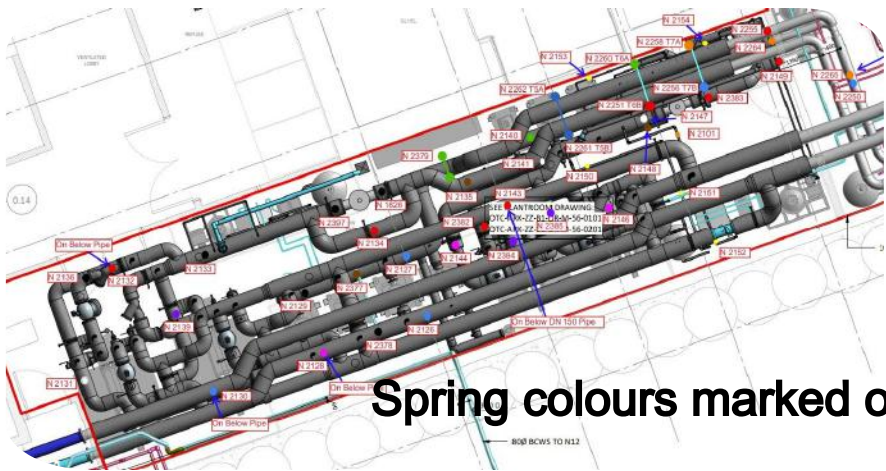
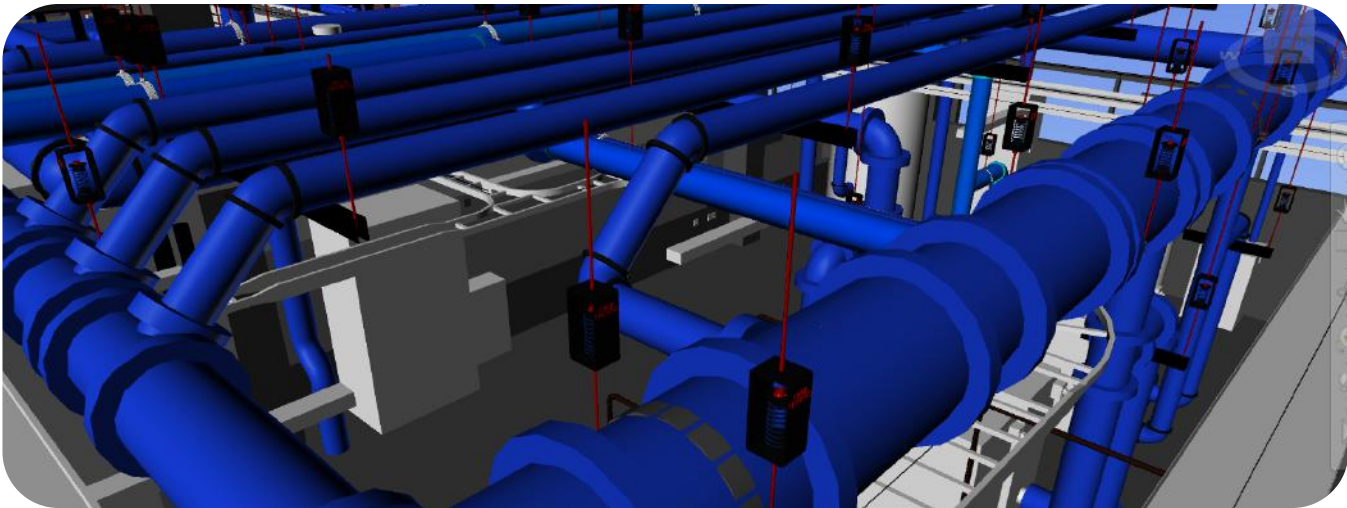


SUMO-EXT

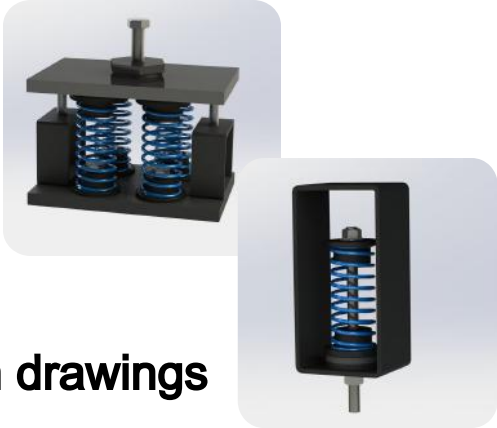
REVIT and CAD Solutions



Revit Coordination available



Spring colours marked on drawings



Project reference: Warwick Court, London



Mounting Equipment on SUMO Springs:

Equipment that needs vibration isolation is mounted on a set of springs. These springs are specifically designed and sized for the exact application, these are often referred to as vibration isolators or spring isolators. They are placed between the equipment's base or frame and the building structure.



Benefits of Spring Isolation for Vibration Control in Plant Rooms:

Reduces transmission of vibration and noise to the building structure. Protects sensitive equipment from excessive vibration, which can lead to equipment wear and damage. Enhances occupant comfort by reducing noise and vibration within the building. Helps comply with local noise and vibration regulations.

Project reference: Cambridge University



Benefits of Spring Isolation in Modular Plantrooms:

Reduces transmission of vibration and noise to the building structure.

Protects sensitive equipment from excessive vibration, which can lead to equipment wear and damage.

Enhances occupant comfort by reducing noise and vibration within the building.

Helps comply with local noise and vibration regulations.



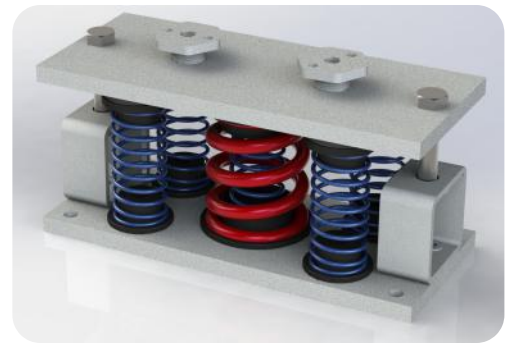
Isolation products:



Ninja Spring
Hanger



Flexible
Connection



Sumo Spring
Mount

Ninja Spring Hanger Data Sheet



Product Description

A wide range of steel spring hangers offering the optimum performance for low frequency vibration isolation.

Comprehensive load ranges and different fixing requirements offered.

Design Features

Epoxy powder coated steel frame with other steel parts being zinc plated. Helical Steel Springs, colour coded and manufactured in the UK to BS1726 with nominal deflection up to 50mm

Includes bespoke 12mm dampening arrangement including rubber block. 50% Overload capacity

Pre-compression of spring possible before installation and can be delivered pre-set for ease of installation

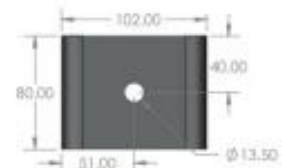
Fitting via drop rod or direct to supporting structure.

M12 threaded rod for connection to pipework with 15 degs of allowable angulation

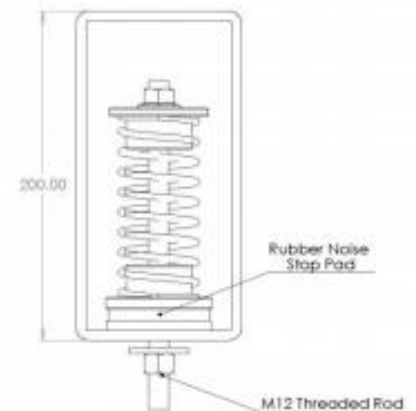
Applications

- Pipework & Ductwork
- Suspended Plant
- Axial Fans & Fan Coil units
- Acoustic Ceilings

Part Number	Weight (Kg)	Static Deflection (mm)	SPRING COLOUR
Ninja-005-50	5	50	DARK GREY
Ninja-010-50	10	50	LIGHT GREY
Ninja-018-50	18	50	CREAM
Ninja-025-50	25	50	YELLOW
Ninja-050-50	50	50	GREEN
Ninja-075-50	75	50	ORANGE
Ninja-100-50	100	50	RED
Ninja-125-50	125	50	BROWN
Ninja-150-50	150	50	BLUE
Ninja-200-50	200	50	WHITE
Ninja-250-50	250	50	BLACK
Ninja-300-50	300	50	PINK
Ninja-400-50	400	50	PURPLE



TOP VIEW



Double Dragon Spring Hanger Data Sheet



Product Description

A wide range of double steel spring hangers offering the optimum performance for low frequency vibration Isolation. Comprehensive load ranges and different fixing requirements offered.

Design Features

Epoxy powder coated steel frame with other steel parts being zinc plated.

Helical Steel Springs, colour coded and manufactured in the UK to BS1726 with nominal deflection up to 50mm

Includes bespoke 12mm dampening arrangement including rubber block.

50% Overload capacity

Pre-compression of spring possible before installation and can be delivered pre-set for ease of installation

Fitting via drop rod or direct to supporting structure.

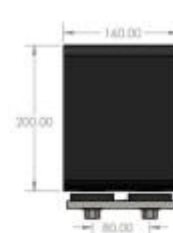
M16 threaded rod for connection to pipework with 15 degs of allowable angulation

Applications

- Pipework & Ductwork
- Suspended Plant
- Axial Fans & Fan Coil units
- Acoustic Ceilings



Part Number	Weight (Kg)	Static Deflection (mm)	SPRING COLOUR
DoubleDragon-250-50	250	50	BROWN
DoubleDragon-300-50	300	50	BLUE
DoubleDragon-400-50	400	50	WHITE
DoubleDragon-500-50	500	50	BLACK
DoubleDragon-600-50	600	50	PINK
DoubleDragon-800-50	800	50	PURPLE



FRONT VIEW



SIDE VIEW

Quad Dragon Spring Hanger Data Sheet



Product Description

A wide range of Quadruple steel spring hangers offering the optimum performance for low frequency vibration isolation.

Comprehensive load ranges and different fixing requirements offered.

Design Features

Epoxy powder coated steel frame with other steel parts being zinc plated.

Helical Steel Springs, colour coded and manufactured in the UK to BS1726 with nominal deflection up to 50mm

Includes bespoke 12mm dampening arrangement including rubber block.

50% Overload capacity

Pre-compression of spring possible before installation and can be delivered pre-set for ease of installation

Fitting via drop rod or direct to supporting structure.



Applications

- Pipework & Ductwork
- Suspended Plant
- Axial Fans & Fan Coil units
- Acoustic Ceilings



Part Number	Weight (Kg)	Static Deflection (mm)	SPRING COLOUR
QuadDragon-1000-50	1000	50	BLACK
QuadDragon-1200-50	1200	50	PINK
QuadDragon-1600-50	1600	50	PURPLE

KETTO Spring Mount Data



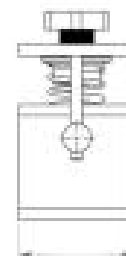
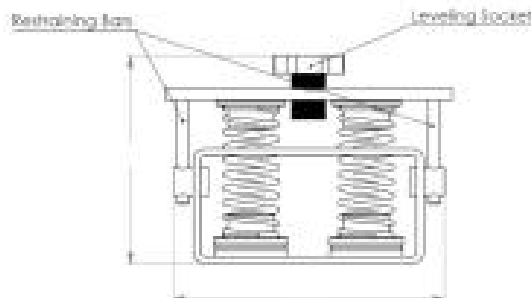
Product Description

A wide range of steel spring mounts offering the optimum performance for low frequency vibration isolation.

Comprehensive load ranges and different fixing requirements offered.

Design Features

- All steel parts are zinc plated or powder coated.
- Helical Steel Springs, colour coded and manufactured in the UK to BS1726 with nominal deflection up to 50mm
- Includes bespoke 10mm dampening arrangement including rubber block.
- 50% Overload capacity
- Pre-compression of spring possible before installation and can be delivered pre-set for ease of installation
- Adjustable mounting socket for easy on site adjustments



Part number	Weight (KG)	Static Deflection (mm)	SPRING COLOUR
KETTO-050-50	50	50	YELLOW
KETTO-100-50	100	50	GREEN
KETTO-150-50	150	50	ORANGE
KETTO-200-50	200	50	RED
KETTO-250-50	250	50	BROWN
KETTO-300-50	300	50	BLUE
KETTO-400-50	400	50	WHITE
KETTO-500-50	500	50	BLACK

SUMO Spring Mount Data



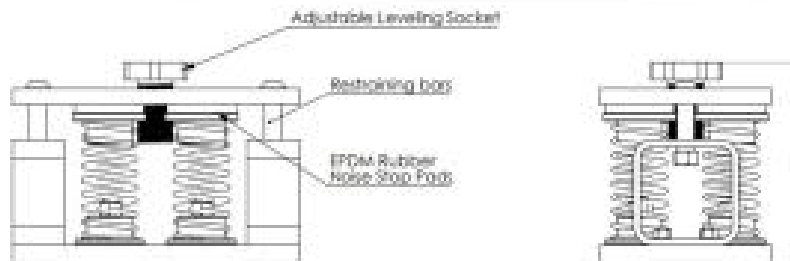
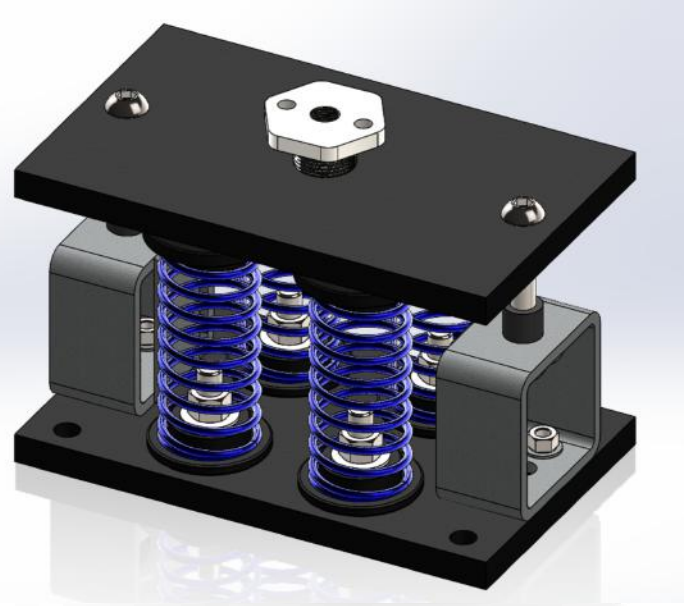
Product Description

A wide range of steel spring mounts offering the optimum performance for low frequency vibration isolation.

Comprehensive load ranges and different fixing requirements offered.

Design Features

- All steel parts are zinc plated or powder coated.
- Helical Steel Springs, colour coded and manufactured in the UK to BS1726 with nominal deflection up to 50mm
- Includes bespoke 10mm dampening arrangement including rubber block.
- 50% Overload capacity
- Pre-compression of spring possible before installation and can be delivered pre-set for ease of installation
- Adjustable mounting socket for easy on site adjustments



Part number	Weight (Kg)	Static Deflection (mm)	Spring Colour
SUMO-100-50	100	50	YELLOW
SUMO-200-50	200	50	GREEN
SUMO-300-50	300	50	ORANGE
SUMO-400-50	400	50	RED
SUMO-500-50	500	50	BROWN
SUMO-600-50	600	50	BLUE
SUMO-800-50	800	50	WHITE
SUMO-1000-50	1000	50	BLACK
SUMO-L-1200-50	1200	50	PINK
SUMO-L-1600-50	1600	50	PURPLE

SUMO XL Spring Mount Data



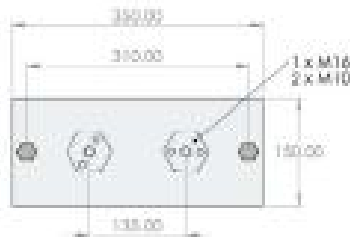
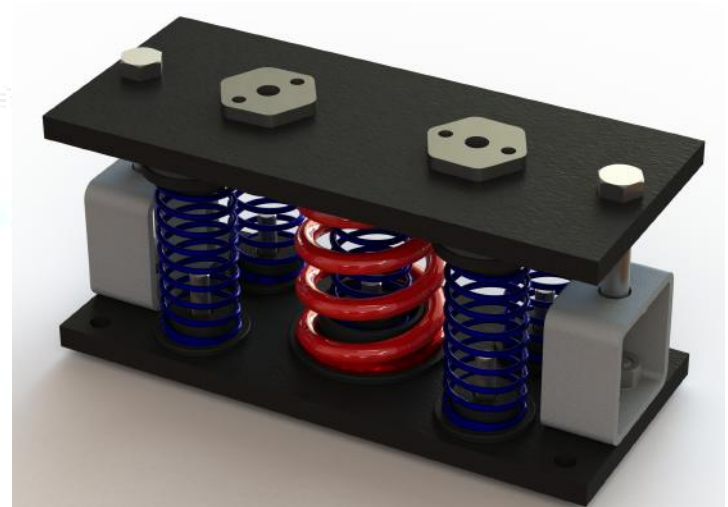
Product Description

A wide range of steel spring mounts offering the optimum performance for low frequency vibration isolation.

Comprehensive load ranges and different fixing requirements offered.

Design Features

- All steel parts are zinc plated or powder coated.
- Helical Steel Springs, colour coded and manufactured in the UK to BS1726 with nominal deflection up to 50mm
- Includes bespoke 10mm dampening arrangement including rubber block.
- 50% Overload capacity
- Pre-compression of spring possible before installation and can be delivered pre-set for ease of installation
- Adjustable mounting sockets for easy on site adjustments
- Larger sizes have additional nested spring inside main spring



TOP VIEW



FRONT VIEW

Part number	Weight (Kg)	Static Deflection (mm)	Spring Colour (Nested*)
SUMO-XL-1750-50	1750	50	BLACK + L.BLUE
SUMO-XL-1950-50	1950	50	PINK + L.BLUE
SUMO-XL-2350-50	2350	50	PURPLE + L.BLUE
SUMO-XL-2550-50	2550	50	PURPLE + L.BLUE (+WHITE)
SUMO-XL-2750-50	2750	50	PURPLE + L.BLUE (+PURPLE)

* Spring nested inside main spring shown in brackets

Rubber Pump Flexible Connection



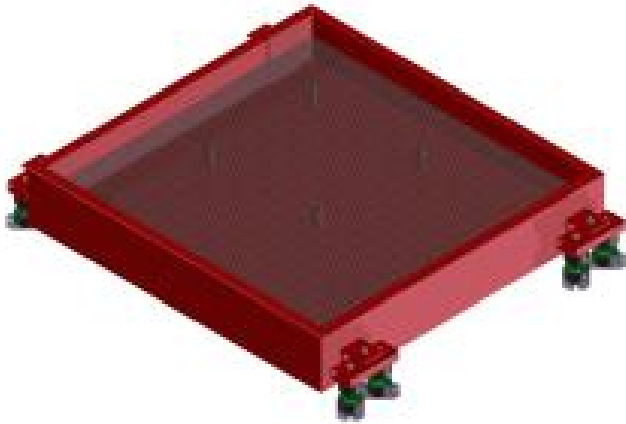
Product Description
Rubber Pump Flexible connection for use to neutralise movement and reduce noise & vibration in pipework. Significantly reduces the transmission of sound & vibrations from plant items. Can also be used to compensate for misalignment.

Design Features

- Max Working Pressure of 16bar & Max Design temperature of 90°C on Standard units (Other types available)
- Nylon reinforced rubber body with steel reinforced collar
- Zinc Plated Carbon Steel flanges available with or without tie bars (T)

Nominal Size (mm)	Part Number	Overall Length (mm) Flanged	Axial Movement mm	Lateral Movement mm
50	MTS-PFS(T)-050	130	20	+/-3
65	MTS-PFS(T)-065	130	20	+/-3
80	MTS-PFS(T)-080	130	20	+/-3
100	MTS-PFS(T)-100	130	20	+/-3
125	MTS-PFS(T)-125	130	20	+/-3
150	MTS-PFS(T)-150	130	20	+/-3
200	MTS-PFS(T)-200	200	20	+/-3
250	MTS-PFS(T)-250	200	20	+/-3
300	MTS-PFS(T)-300	200	20	+/-3

Anti-Vibration Inertia Base



Product Description

Designed to reduce the transmission of noise and vibration from equipment to building structures and associated pipework. For use on pumps, generators, AHU and compressors.

Complete with single open spring mounts with neoprene caps

Design Features

- Inertia bases made from Carbon steel to BS EN 10025 S275
- Fully adjustable and supplied to fit application
- Base design calculated to proposed use and specification
- To be used with Open Spring Mounts selected to loads
- Easy & quick to construct (bases to be filled with concrete on site)



Part Number	Size L (mm)	Size W (mm)	Size H	Qty of Springs
NS-IBS-2000x1500	2000	1500	250mm	6
NS-IBS-1500x1000	1500	1000	200mm	4
NS-IBS-1000x1000	1000	1000	200mm	4



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