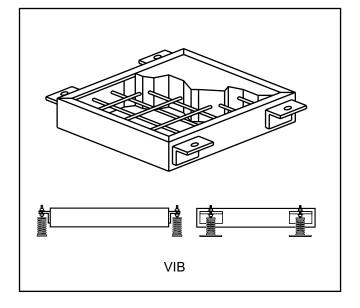
## INERTIA BASES Model VIB



## **APPLICATIONS**

Inertia bases are designed to reduce noise and vibration transmission between plant equipment and the building structure. They are usually supported on helical steel spring mounts and are used to:-

Provide stability to a system. Lower the centre of mass. Reduce coupled mode problems. Minimise the effect of external forces. Ensure an even load distribution. Add rigidity to the plant / equipment. Reduce the effect of centre of mass estimates. Provide suitable anti-vibration mount fixings. Reduce vibratory movement due to plant start-up and run-down as the resonant frequency is passed.

Max' Plant	Frame	Frame	Frame	Concrete	Product
Weight	Length L	Width W	Depth D	Weight	Code
(kg)	(mm)	(mm)	(mm)	(kg)	(MODEL-L-W-D)
50 70 100 140 230 280 240 300 380 450 540 630 730	500 750 750 1000 1250 1250 1250 1250 1250 1500 150	500 500 750 750 1000 1250 1000 1250 1250 1250 1500 150	150 150 150 150 150 150 200 200 200 200 200 200 200 200	90 135 202 270 360 450 563 480 600 750 900 1080 1260 1470	VIB-0500-0500-150 VIB-0750-0500-150 VIB-1000-0750-150 VIB-1000-1000-150 VIB-1250-1000-150 VIB-1250-1250-150 VIB-1250-1000-200 VIB-1250-1250-200 VIB-1500-1250-200 VIB-1500-1500-200 VIB-1750-1500-200 VIB-1750-1750-200

## SPECIFICATION

VIB - a formed steel frame (pre-galvanised) fitted with steel reinforcing bars, BZP steel 'outrigger' mounting brackets and supplied with anti-vibration mounts appropriate to the plant type and the category / efficiency of the vibration isolation required.

Heavy steel sections, such as RSC and RSA, may be used where necessary. These can incorporate 'inboard' mounting brackets.

Inertia Bases are normally supplied to site ready for filling with concrete.

A concrete mix having a ratio of 4 parts gravel : 2 parts sand : 1 part cement should be used to give a concrete density of approximately 2,400 to 2,500 kg/m<sup>3</sup>.

Heavy steel inertia plates can be used for small plant items where an inertia base would be too bulky.

## **OPERATING PARAMETERS**

Ensure operation is within the following parameters:-

The vertical distance to the combined centre of mass from the top of the spring mounts must be less than horizontal distance.

The spring mounts must be outside the 'boundary' of the rotating mass.

All equipment must be rigidly coupled together as one mass on a single platform.

The mass of the platform must be very large compared to the mass of the plant, i.e. the platform must be twice that of the plant.

Flexible pipe connectors must be of the 'restrained' or 'tied' type.

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subject to alteration without notification