



Vibration Isolators & Inertia Base



Inertia Base

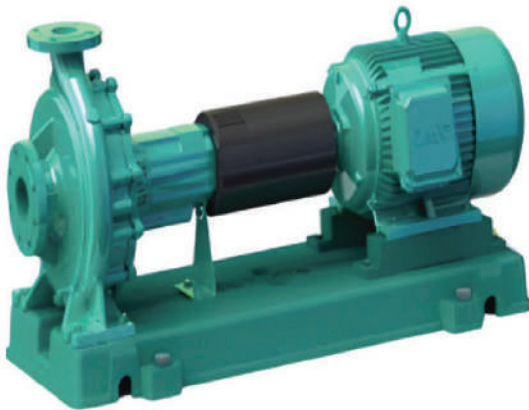
Introduction:

- Verdant Inertia Base has to be used beneath the mechanical equipments (such as Pumps, Air handling units, Chillers, Booster sets, compressor, etc.) to improve stability and to reduce the vibration and noise transmission due to equipment start-up, operation and run-down.
- Welded inertia bases are designed according to ASHRAE guidelines.
- Made from structural steel C channels and reinforced with welded steel bars, each parts have welded brackets to install spring mounts under them.



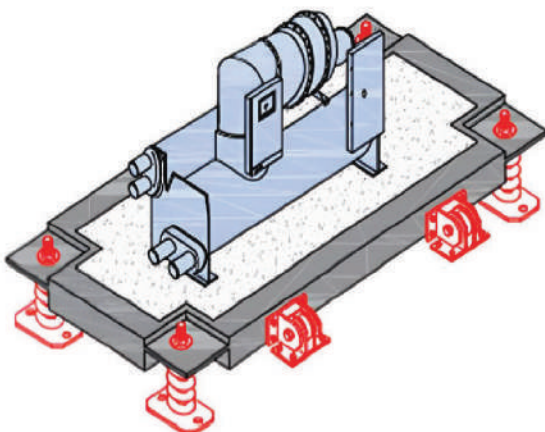
Benefits:

- Provide more stability to system.
- Provides uniform weight distribution
- Reduces the effect of external forces.
- works as local sound barrier



Features:

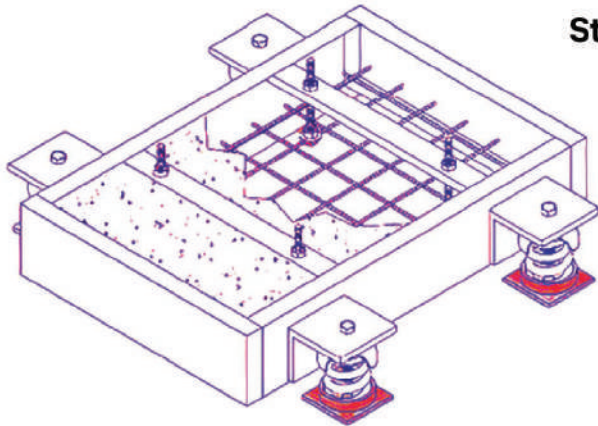
- Welded Structural steel perimeter frame
- Thickness as required: standard members are 6" (150mm), 8" (200mm), 10" (300 mm), 12" (300mm), 14" (350 mm) are available
- Base sizes as required
- Heights saving welded on steel isolators brackets
- Welded - in reinforcing bars
- Pre - located anchor bolts (optional)
- Optional corrosion - resistan finish



Applications:

- Compressors
- Generating sets
- Engine/Dynamometer Test Rigs
- Refrigeration plant
- Pumps (Particularly Belt Driven)

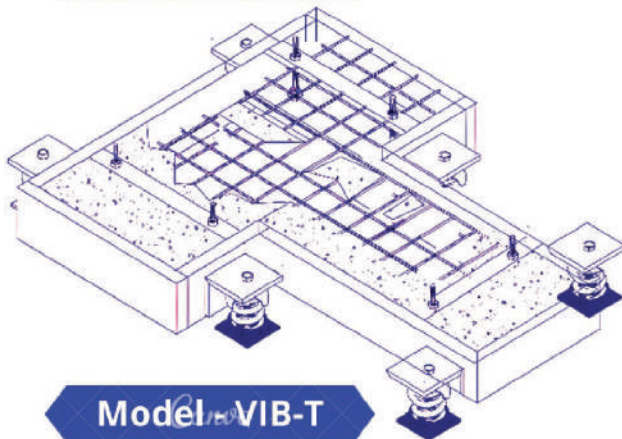
Standard Frame Weights, Sizes & Mounting Selections



Model VIB-L



Model VIB-H



Model VIB-T

Technical Characteristics			
Frame size A x B (mm)	C = 150 mm	C = 200 mm	C = 300 mm
	WT (kg)	WT (kg)	WT (kg)
600 x 600	147		
600 x 750	180		
600 x 900	211		
600 x 1200	277		
600 x 1500	341		
750 x 750	219	288	
750 x 900	259	342	
750 x 1200	339	448	
750 x 1500	420	554	
750 x 1800	500	660	
900 x 900	307	404	600
900 x 1200	402	531	788
900 x 1500	498	658	977
900 x 1800	594	785	1166
900 x 2100	653	911	1353
1050 x 1050	465	542	804
1050 x 1500	575	761	1121
1050 x 1800	687	908	1350
1050 x 2100		1055	1570
1500 x 2400		201	1788
1200 x 1200		699	1038
1200 x 1500		865	1286
1200 x 1800		1032	1536
1200 x 2100		1199	1785
100 x 1200		1369	2038
14000 x 1200			1397
1400 x 1400			1783
1400 x 2100			2074
1400 x 2400			2365

Frame weights include concrete at 2245 Kg/m³ and mounting selection and based on 4 mountings per frame allowing 50 % additional weight for the equipment to be supported. Nominal 25 mm deflection Type Open Spring Isolators have been listed, however the exact deflection will Vary depending on the applied load.

Design and Installation Notes:

- The equipment should be located on the frame such that the load is evenly distributed over the mounting positions.
- Equipment and ancillary parts should not overhang the frame and hold down bolts Must Not over the than 100 mm from the outer edge of the frame.
- Grade 25 (50 N/mm²) concrete should be used as a minimum strength requirement for filling Inertia Frames.

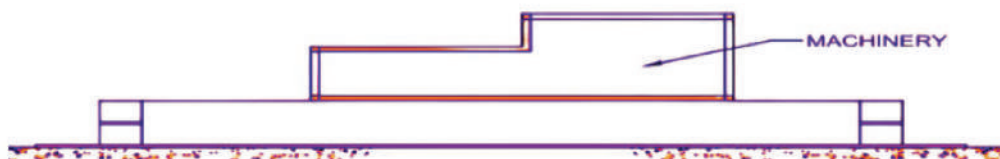
Installation Instructions:

1.)



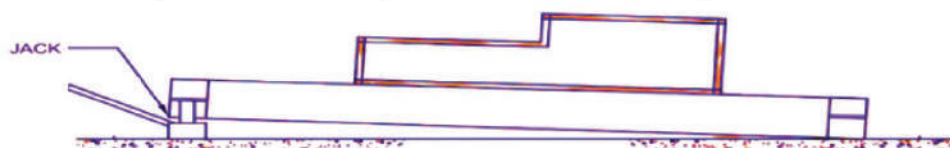
The inertia Pouring Frame without Isolators should be laid on polythene sheer or similar material, in order to facilitate base separation once concrete has been poured and allowed to cure, it's important that the frame be positioned on a level concrete floor in order that the polythene provides an effective seal around the perimeter of the Frame preventing percolation of concrete when being poured

2.)



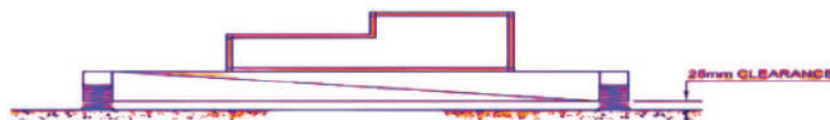
After Concrete has been poured and allowed to cure, for typically one week, the machine should then be fixed to the upper concrete surface using expanding bolt type fixing it is important that the centre of gravity of the machine be positioned vertically above the centre of gravity of the Inertia Pouring Frame

3.)



The Frame should now be lifted using a suitable jack positioned under the Isolator corner brackets. As each corner of the Frame is lifted, it will be possible to remove the polythene sheeting and block the frame up to the required height for installation of the isolators

4.)



The isolators can now be installed and adjusted whereupon the blocks can be removed and Isolators allowed to take full load of equipment and inertia base weight. While machinery a gap of about 25 mm between the base frame and the ground further adjustment of the Isolators may be necessary in order to achieve a level installation

NOTE

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



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