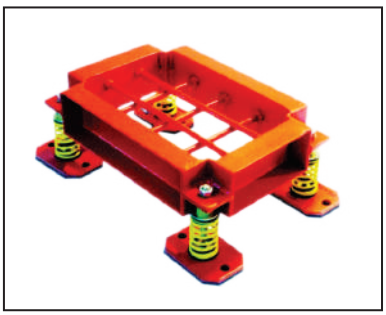


INTRODUCTION:

Inertia Base should be used where the machine to be vibration isolated produces large unbalanced forces which would result in excessive motion if supported directly on spring or rubber based isolators. They should also be used where the machine is subject to external forces or is inherently unstable.

Saketh's Inertia Base come in several standard sizes as listed in our catalogue. However these bases can also manufactured to any size and specifications, even for heavier and more complex vibration isolation would normally recommend 6 isolators or more for exceptionally large bases.

EXAMPLES OF EQUIPMENT REQUIRING INERTIA BASE ARE AS FOLLOWS:-

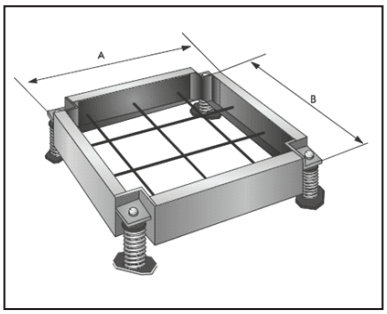
Reciprocating Compressors
Diesel Generating Sets
Engine / Dynamometer Test Rigs
Refrigeration Plants
Pumps (Particularly Belt Driven Types)

FEATURES:-

Fully welded steel construction with integral concrete reinforcement fixed at 40 mm above bottom of frame.
Recessed height reducing corner brackets designed to accept standard Tembo's type TGOSM open spring mountings.
Range of standard size frames available in three thicknesses 150, 200, 300 & 350 mm.
Frame thicknesses not less than L/12 where 'L' is the longest side of the frame.
Finished with a single coat of red oxide primer on external surface only.

Due to policy of continual improvement, the specifications are subject to change without prior notice.
Measurements are subject to 5% tolerance.
To achieve good sound suppressions do not over load fitting.

APPLICATION EXAMPLES:



ORDERING INFORMATION REQUIRED:-

- Equipment Model / Make
- HP/ RPM Of motor
- Static weight of equipment.
- Operating / Dynamic weight of equipment
- Outside Dimensions L X B X H
- Concrete Plinth Y/N.
- Height / Space constraint if any
- Required Deflection offspring(25 mm /50mm)
- Location- Ground / Roof / Basement.

NOTES:

Frame weights include concrete density at 2400 kg/m^3 and mounting selections are base 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. When ordering bases should be specified as follows - 150 - 600 X 900 other size .Type and Thickness required and plan dimensions commencing with smallest length. Mounting should also be listed e.g. "25/100 - BULE"

IMPORTANT:

The equipment should be located on the base such that the load is evenly distributed over the 4 mountings. Equipment and ancillary parts should not overhang frame and hold down 100 mm from the outer edge of the bolts must not be at a distance less than base. All the connections to the equipment should incorporate flexible sections and pipe work etc. must independently supported. Concrete plinth if any should be at least 200 mm more than the size of base in all directions. In case of installation of snubbers it should be increased to 300 mm.

AVAILABLE FRAME SIZES:

SR. NO	FRAME SIZE	THICKNESS AVAILABLE		
1	600 x 600	50 MM	100 MM	150 MM
2	600 x 750	50 MM	100 MM	150 MM
3	600 x 900	50 MM	100 MM	150 MM
4	600 x 1200	50 MM	100 MM	150 MM
5	600 x 1500	50 MM	100 MM	150 MM
6	700 x 700	50 MM	100 MM	150 MM
7	700 x 900	50 MM	100 MM	150 MM
8	700 x 1200	50 MM	100 MM	150 MM
9	700 x 1400	50 MM	100 MM	150 MM
10	700 x 1600	50 MM	100 MM	150 MM
11	800 x 800	50 MM	100 MM	150 MM
12	800 x 1000	50 MM	100 MM	150 MM
13	800 x 1200	50 MM	100 MM	150 MM
14	800 x 1600	50 MM	100 MM	150 MM
15	1200 x 1600	50 MM	100 MM	150 MM
16	800 x 1800	50 MM	100 MM	150 MM
17	900 x 1800	50 MM	100 MM	150 MM
18	1000 x 1000	50 MM	100 MM	150 MM
19	1000 x 1200	50 MM	100 MM	150 MM
20	1000 x 1500	50 MM	100 MM	150 MM
21	1000 x 1700	50 MM	100 MM	150 MM
22	1000 x 2000	50 MM	100 MM	150 MM
23	1200 x 2200	50 MM	100 MM	150 MM

NOTE : - Any non standard size inertia base can be manufacture suitable to pump & motor assembly.
- Selection of vibration isolators is base on motor & pump weigh.

APPLICATION EXAMPLES: