



EMFLEX[®]

Inertia Base & Mount Packages

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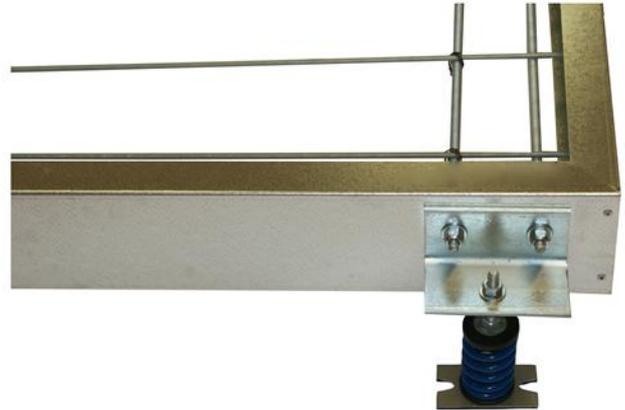
Inertia Base & Mount Packages

EMFLEX inertia base and mount packages are used beneath mechanical equipment to improve stability and to minimise the vibratory movement and noise transmission due to equipment start-up, operation and run-down.

They are designed and manufactured to meet with individual requirements and are suitable for mechanical equipment such as pumps, air handling units, chillers, booster sets, compressors, etc.

They are supplied to site ready for filling with concrete. We recommend that a concrete mix ratio of 4 parts gravel : 2 parts sand : 1 part cement is used to give a concrete density of 2,400 to 2,500 kg/m³.

We request that our engineers are contacted for assistance with this type of equipment.



TYPE IBMP

A package consisting of a pre-galvanised formed steel inertia frame, zinc plated steel reinforcing bars, zinc plated steel 'outrigger' mounting brackets and suitable anti vibration mounts to suit the mechanical equipment being isolated. Heavy steel channel sections and steel angle section may be used where necessary.

The weight of the inertia base should be between 1.5 and 2.0 times that of the equipment being supported. To reduce rocking modes, the height of the centre of gravity above the top of the isolators for the combined base and equipment must be less than the horizontal distance to the isolators.

The approximate concrete weight is calculated from:-
Weight (kg) = A x B x C x D

Where,

A = Frame Length (m)

B = Frame Width (m)

C = Frame Depth (m)

D = Concrete Density (2400kg/m³)

Allow 150mm between equipment hold down bolts and the edge of the frame so as not to crack the concrete. The guidance tables above show sizes of inertia bases that utilise 4 isolator mounting positions. Larger sizes are available and generally utilise more isolators.

Please contact our sales team for further information.