

KINETICS™

Inertia Base Frame Model CIB-L



Description

Model CIB-L inertia base frames, when filled with concrete, meet all specifications for Kinetics inertia bases, and when supported by proper Kinetics vibration isolators, provide the ultimate in equipment isolation, support, anchorage, and vibration amplitude control.

Model CIB-L inertia base frames incorporate a unique structural design which integrates perimeter channels, isolator support brackets, reinforcing rods, anchor bolts and concrete fill into a controlled load transfer system, utilizing steel in tension and concrete in compression, resulting in high strength and stiffness with minimum steel frame weight. Completed inertia bases using Model CIB-L frames are stronger and stiffer than standard inertia base frames using heavier steel members.

Standard Model CIB-L inertia base frames are available in thicknesses of 6 in (152 mm), 8 in (203 mm), 10 in (254 mm) and 12 in (305 mm), in sizes tabulated, and include integral isolator support brackets, steel channel perimeter pouring frame, ½-in (13 mm) diameter reinforcing rods on 8-in (203 mm) centers each way, and steel anchor bolts prelocated and fixed in proper locations. Model CIB-L inertia base frames are delivered to the job site completely welded and ready to fill with concrete. On-job labor and installation time are minimized, resulting in maximum economy.

Application

Kinetics Model CIB-L inertia base frames are specifically designed and engineered to receive poured concrete, for use in supporting mechanical equipment requiring a reinforced concrete inertia base.

Inertia bases are used to support mechanical equipment, reduce equipment vibration, provide for attachment of vibration isolators, prevent differential movement between driving and driven members, reduce rocking by lowering equipment center of gravity, reduce motion of equipment during start-up and shut-down, act to reduce reaction movement due to operating loads on equipment, and act as a noise barrier.

Typical uses for Kinetics Model CIB-L inertia base frames, with poured concrete and supported by Kinetics noise and vibration isolators, include use with open-type centrifugal chillers, reciprocating air and refrigeration compressors, chillers, and heat pumps, close-coupled and base-mounted pumps, centrifugal fans, internal combustion engines, and similar types of equipment.

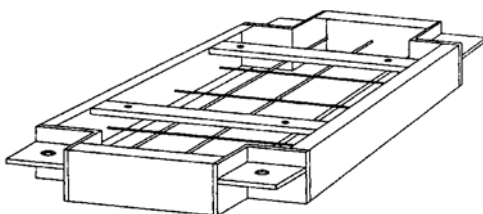
Specifications

Isolation bases shall be constructed of concrete cast into fabricated inertia base frames, the steel members of which are designed and supplied by the isolator manufacturer. The concrete shall be poured into a welded steel frame, incorporating prelocated equipment anchor bolts, 1/2-in (13 mm) diameter reinforcing bars on nominal 8-in (203 mm) centers each way, and recessed isolator mounting brackets to reduce the mounting height of the equipment, and reduce the footprint of the base. The thickness of the base shall be a minimum of 8% of the longest span between isolators, at least 6 in (152 mm), or as indicated on the drawings. Where inertia bases are used to mount pumps, the bases shall be sized to support piping elbows.

Concrete inertia bases shall be Model CIB-L, as manufactured by Kinetics Noise Control, Inc.

		Base Width - in. (mm)							
		18 (457)	24 (610)	34 (864)	44 (1118)	54 (1372)	64 (1626)	74 (1880)	84 (2134)
		Base Thickness							
Base Length - in. (mm)	18 (457)	6 (152)							
	24 (610)	6 (152)		6 (152)					
	34 (864)	6 (152)	6 (152)	6, 8 (152, 203)					
	44 (1118)	6 (152)	6 (152)	6, 8 (152, 203)	6, 8, 10, 12 (152, 203, 254, 305)				
	54 (1372)	6 (152)	6 (152)	6, 8 (152, 203)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)			
	64 (1626)	6 (152)	6, 8 (152, 203)	6, 8 (152, 203)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)			
	74 (1880)	6 (152)	6, 8 (152, 203)	6, 8 (152, 203)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	
	84 (2134)		6, 8 (152, 203)	6, 8 (152, 203)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)
	96 (2438)			6, 8 (152, 203)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)
	108 (2743)				6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)
	120 (3048)					6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)	6, 8, 10, 12 (152, 203, 254, 305)

The length and width dimensions shown include the actual frame size and may not include the length and width of the bracket.



United States

6300 Ireland Place
P.O. Box 655
Dublin, Ohio 43017
Phone: 614-889-0480
Fax: 614-889-0540

Canada

3570 Nashua Dr.
Mississauga, Ontario
L4V 1L2
Phone: 905-670-4922
Fax: 905-670-1698

www.kineticsnoise.com
sales@kineticsnoise.com

Kinetics Noise Control, Inc. is continually upgrading the quality of our products. We reserve the right to make changes to this and all products without notice.