

Many years ago, we reduced the cost of concrete bases by introducing KIP mountings. These mountings are nailed to the inside of the contractor's wooden forms to provide side openings for the springs that elevate the base and isolate the equipment. KIP bases are structurally successful as the rigidity and strength of any base is dependent on the depth and the reinforcing, and not on the perimeter steel.

Perimeter steel acts as a form for the concrete and it provides a convenient means of attaching heightsaving brackets and packaging the reinforcing. While the KIP designs appear to be less expensive, contractors prefer buying the complete package within the steel form work as fewer trades are involved.

Traditionally, all vibration base manufacturers used rolled beams or channels for these forms. The obvious reason was availability as these materials could be bought in small guantities. Because of your confidence in our company, our volume has increased to the point where it is possible for us to stock modular lightweight sections to more efficiently provide forms without using structural members. The BMK design is available in 6" and 10" depths and in 6" length increments in the smaller sizes and 12" thereafter. Since a 10" modular base is more rigid and less costly than an 8" structural base, we normally offer our 10" BMK even though an 8" depth might meet a minimum specification. We must apologize for our use of the letter "K" as the abbreviation for concrete. In our early history, the letter "C" was used for "Castings". The code name BMK stands for "Bolted Modular Koncrete".

Since the members are formed rather that rolled, our engineers were able to call for greater thickness of material and flange width as the sections became deeper and longer. All sections are sufficiently rigid to hold the wet concrete without cross bracing. Any rectangular or square base within the size limits of the formed sections can be assembled from stock by bolting these members to suitable corner brackets.

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BMK bases can be assembled with templates, cast iron anchor bolt sleeves and anchor bolts. Reinforcing can be built in, and in the case of blower bases, we can provide the adjustable motor slide rails.

BASES FOR

BOLTED MODULAR BMK/KSL BASES COMPRESSORS-

BULLETIN B-840-4

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Thus, we have kept our original concept of the complete package and we have reduced weight by eliminating the needlessly heavy structural members that do nothing for base integrity. All designs have been destruction tested using full scale models in the most unfavorable long and narrow configurations. Safety factors are a minimum of three to one. We continue to recommend a depth of 1/12 the longest dimension of the base, with a minimum of 6".

The advantage to the specifying engineer and the owner is the much improved appearance of the smoothly formed contours and the baked enamel finish. There are very few exposed welds. The contractors find these bases easier to handle and when the overall dimensions are too large to fit through building openings, they can be shipped knocked down and quickly assembled. The modular submittal drawings are excellent and delivery time is greatly reduced by shipments from depots throughout the country and the world.

BMK bases are most commonly used with SLF spring mountings from the minimum 3/4", 11/2", 21/2" and 31/2" groupings. They are equally adaptable to type C, SSLFH and SLR spring mountings or Air Springs and ND Neoprene mountings. They can be furnished as simple frames with closed corners when no isolation is required, or when isolation is placed under the base. These bases will also accommodate type Z-1011 or Z-1225 seismic snubbers.

BMK bases are another step forward in vibration control technology.

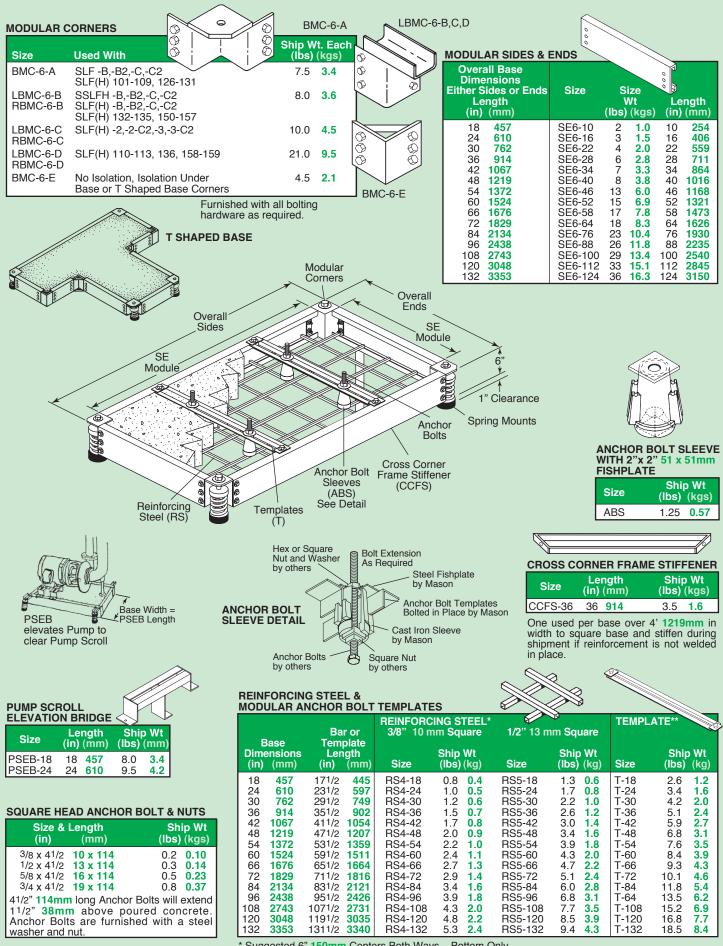
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BMK/KSL-6 DETAILS

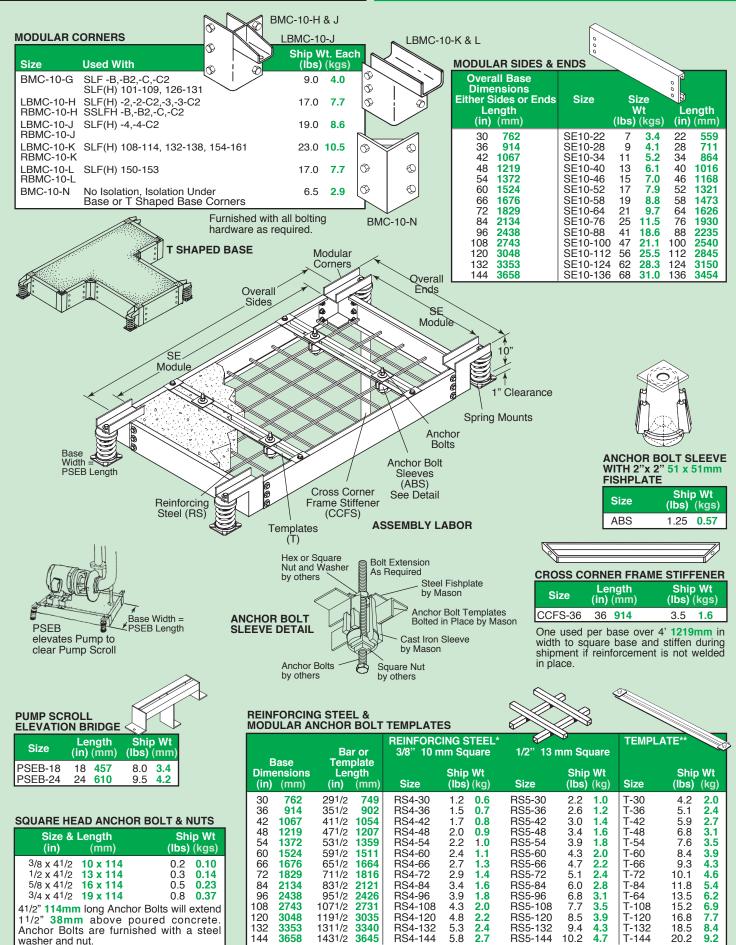
MASON INDUSTRIES



* Suggested 6" 150mm Centers Both Ways – Bottom Only **Furnished with 2 – 3/8" x 3/4" 10 x 19mm Capscrews to Secure Ends

MASON INDUSTRIES

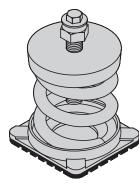
BMK/KSL-10 DETAILS



Suggested 6" 150mm Centers Both Ways – Bottom Only

MASON INDUSTRIES

BMKSL (SLF) Unhoused Spring Mounts



Type SLF spring mounts are designed with extremely stable springs enabling them to resist the fan thrust without the use of supplementary housings. Since there are no snubbers or chocks of any kind, isolation values approach the theoretical. All mounts have acoustical pads and leveling bolts and need not be bolted down. Static deflection up to 5.0" can be attained using stock springs. Specifications should call for minimum .75", 1.5", 2.5", 3.5" or 4.5" deflections can be provided if specified.

BMKC Housed Spring Mounts

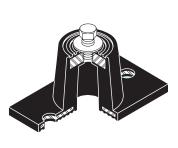
Type C spring mounts are designed so that neoprene sponge inserts limit movement during start and stop and prevent contact between the projections of the upper and lower semi-steel castings. These inserts are designed for a minimum of damping in all directions. This is a good design for engineers that prefer housed mountings. Maximum deflection is 1.5".



BMKMAS Air Spring Mounts

> Type MAS air springs are the ultimate isolator as there is no metallic continuity to transmit high frequency noise. Natural frequencies as low as 1.5 Hertz (90 CPM) are attainable with standard devices and the inherent damping minimizes start and stop motion. All air spring systems must be installed with leveling valves to accommodate weight changes and minor air leakage.





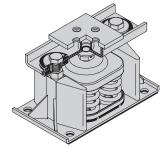
Type ND neoprene mounts are designed for simple installations. The rubber is loaded in both shear and compression to provide the desirable straight line rubber-in-shear deflection curves as well as overload protection. They are molded assemblies with skid resistant rubber ribbed baseplates and need not be bolted to the floor on most installations. Maximum deflection is 0.5".

BMK SEISMIC BASES

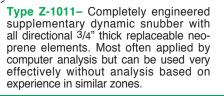
Seismic or blast requirements vary in different zones, states and countries. Specifications may require restraints that can be provided by the following devices.

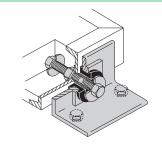


Type SSLFH– All directional 1/4" cushioned neoprene snubbing built into a spring isolator. Primarily static specifications or lower dynamic requirements.



Type SLROS– All directional 1/4" cushioned neoprene snubbing built into a spring isolator. Primarily static specifications.





Z-1225– Supplementary all directional snubber used with any type of isolator. 1/4" cushioned neoprene snubbing. Primarily static specifications or lower dynamic requirements.

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