

HS-5 INSTALLATION INSTRUCTIONS

1) The Kinetics Model HS-5 Snubber is to be installed such that the neoprene bushing attached to the base anchor will contact the interior surface of the floor-mounted restraint bracket once the equipment has been displaced approximately 1/4" in any horizontal or vertical direction.

2) Because each HS-5 can handle loads in any direction, many applications require only 2 restraints. However, variations in the horizontal CG location or the physical size of the supported equipment may make the use of additional restraints necessary.

3) The precise location of the Snubber is either as indicated on the drawings submitted, or in lieu of drawings, should be as follows: In instances where 2 restraints are used, they should be located at the midpoint of the long axis of the equipment base. In the case of 4, they should be located as close to the corners as possible.

4) If using an inertia base, the base anchor should be fitted before the concrete is poured into the base. Run the anchor bolt through the bushing, neoprene elements and through a pre-drilled hole in the base. Lock it in place using a jam nut on the interior surface of the base, the metal bushing and a jam nut on the outside of the base. At the extreme inboard end of the base, lock 2 nuts and a washer together as shown in the drawing to allow the concrete to secure the assembly once it is poured. **(It is critical that the elevation of the drilled hole in the base ends up being at the same elevation as the center of the hole in the bracket after the base is adjusted to the desired operating height.)** For a structural steel frame, the nuts on the base anchor should be installed as indicated in the drawing.

5) Raise the equipment to the desired installed height and align the hole in the bracket with the base anchor bolt. Position the bracket so that it is .25" + the thickness of one of the neoprene washers from the side of the base. Mark the floor anchor holes, drill and install the anchors without moving the bracket. (If the anchors are set in place before the bracket is aligned, the equipment will have to be raised to allow the brackets to be set.)

6) Complete the assembly of the base anchor, bushing and neoprene elements using the drawing as a guide. Torque the base anchor nuts to the levels specified below:

.5" Stud – 35 ft lb

.75" Stud – 75 ft lb

.88" Stud – 125 ft lb

1.25" Stud – 300 ft lb

All anchors are to be installed in accordance with applicable code standards. In lieu of standards, anchors are to be embedded a minimum of 8 bolt diameters. Also they are to be a minimum of 6 bolt diameters from the edge of the slab into which they are embedded.

7) Once installed, operate the restrained piece of equipment to ensure that it does not contact the snubbers during normal operation.

