

## Kinetics Model FMS

This isolator was developed to handle a variety of seismic zones. The seismic element is placed on the bottom, close to the mounting surface, to minimize the tensile loading generated in the attachment hardware. The isolation element is mounted above the restraint and its size and shape can be varied independently of the restraint's size and shape



### Specification

All Direction High Capacity Modular Seismic Isolator

1. Spring Isolators shall be comprised of two interfacing but independent elements, a coil spring element and a seismically rated housing. The spring coil element shall be comprised of one or more coil assemblies having all of the characteristics of free standing coil spring isolators as specified in the vibration isolation portion of the specification. The seismically rated housing shall be sized to match the force requirements applicable to the project and have the capability of accepting coils of various sizes, shapes, capacities and deflections as needed to meet the desired isolation criteria.
2. All spring forces will be contained within the coil/housing assembly and under no external load condition shall spring forces be carried through the restraint anchorage system.
3. The restraint element shall incorporate a steel housing and elastomeric elements at all dynamic contact points. The restraint will allow  $\frac{1}{4}$ " motion in any lateral or vertical direction from the neutral position. All elastomeric elements shall be replaceable.
4. To ensure the optimum anchorage capacity, the restraint will have an **overturning factor** (The ratio of the effective lateral snubber height to the short axis anchor spacing) of .33 or less.
5. The leveling nut or screw shall be made accessible for adjustment with the use of a pneumatic or electric impact wrench.
6. The spring element shall be replaceable without having to lift or otherwise remove any supported equipment.
7. Where required, a soft lateral cushioning element shall be fitted that can absorb the minor lateral forces generated by hydraulic or wind loads without contact being made at the main snubbing element.

The isolator shall be Model FMS as manufactured by Kinetics Noise Control or by other manufacturers who can meet the requirements above.

## FMS ISOLATOR DESCRIPTION AND SPECIFICATION

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