



FSL Isolators

Heavy duty structural coil spring isolation

For more information visit: www.farrat.com

Why choose Farrat Coil Spring Isolators?

Farrat's range of heavy duty structural coil spring isolation systems provides low frequency vibration isolation for large structures and industrial equipment. They have been used worldwide for a wide range of applications.

- > FSL Coil Spring Isolation systems are used to provide both active and passive vibration isolation with natural frequencies down to 3Hz to isolate disturbing frequencies down to 6Hz
- > Where a system is likely to pass through or near resonance and excessive movement is a concern it is recommended that FV Viscous Dampers are used in conjunction with the FSL springs. This combination of FSL Coil Spring Isolators and FV Viscous Dampers also provides excellent shock absorption
- > FSLV Coil Spring and Viscous Damper Isolators combine an FV viscous damper into a modified FSL Coil Spring Isolator to provide a compact integrated unit

Typical Applications

- > Roll grinding machines
- > Power generation equipment (compressors, pumps, fans, gas and steam turbines, condensers)
- > Crushing, milling and shredding equipment
- > Oil and gas offshore platforms
- > Building Structures



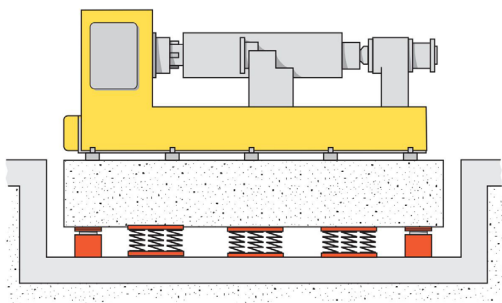
For clarification:

Active Shock and Vibration Isolation involves isolation of a dynamic system to reduce the effects of vibration and shock on nearby machinery, people and building structures.

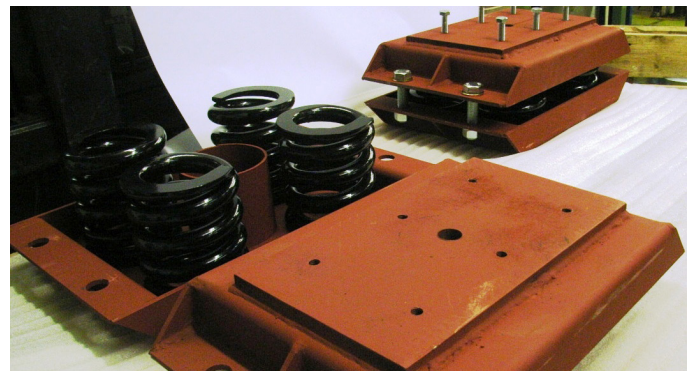
Passive Shock and Vibration Isolation involves the protection of sensitive structures or equipment from the effects of vibration and shock caused by nearby plant, machinery, vehicles, people etc.

Shock Isolation involves the Isolators storing the energy of the shock through isolator deflection and subsequent release in a smoother form over a longer period with lower overall amplitude. FSLV Viscous Dampers limit this movement by converting the kinetic energy of the movement into heat within the viscous fluid of the damper.

Farrat will design the isolation system to meet a customer's specific technical requirements and provide construction drawings, installation instructions and optional installation supervision with all FSL Coil Springs. **Contact us for technical assistance on +44 (0) 161 924 1600 or email sales@farrat.com**



Farrat FSLV Coil Spring and viscous dampers used to isolate precision roll grinders



	Unit Length mm	Unit Width mm	Spring rate kN/mm	Load Per Unit (kg)		Natural Frequency (Hz)		Isolator Height (mm)			Damping Ration C/Cc
				Max	Min	at Max Load	at Min Load	Free	Max Load	Min Load	
FSLV 1-4	500	306	3.4	8,500	2,833	3.2	5.5	165	140	157	0.1
FSLV 1-6	720	306	5.1	12,750	4,250	3.2	5.5	165	140	157	0.1
FSLV 1-8	940	306	6.8	17,000	5,667	3.2	5.5	165	140	157	0.1

All information in this brochure is for guidance only based on current knowledge and may be subject to change and correction.