

S Series

Steel Spring Vibration Isolators

Features/Benefits

- Load Ranges from 100 to 125,000 lbs.
- All Directional
- Heavy-duty welded steel housing
- Reduces vibration, shock and structureborne noise transmission
- External and internal levelling adjustment types
- Fully adjustable snubbing

Applications

- Marine and stationary diesel generator sets
- Centrifugal filters
- Large presses, hammers
- Shaker screens, pulverizers

Advantages

Level Adjustment: Type SK external adjustment with single bolt through isolator top plate. Type SI internal adjustment bolt. Type SO is non-levelling.

Adjustment Bolt: Standard bolt will pass through 2" thick machine leg. Longer bolts available at extra cost.

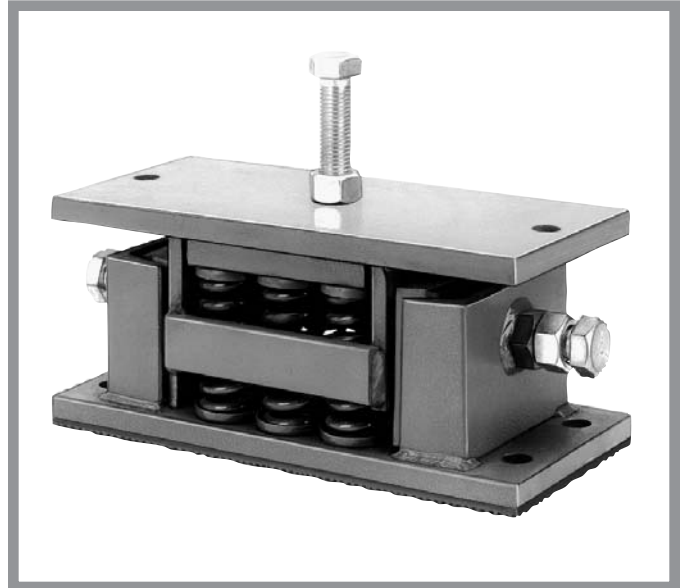
Snubber Adjustment: Fully adjustable snubbing by means of end bolts is standard for all Series S Isolators.

Snubber Inserts: Elastomer impregnated cotton duck for heavy duty service is standard. Special materials for corrosive chemical atmospheres available at extra cost.

Springs: Oil-tempered, high carbon steel springs are standard. Special steels or coatings for corrosion resistance are available at extra cost.

Housing Materials: Heavy-duty all welded steel construction is standard.

Fastening To Floor: Base plate with bolt holes and elastomer sound pad with isolation washers for bolting to floor is standard.



Fastening To Machine: For external levelling, Type SK, a single adjusting bolt alone or in combination with two clearance holes for additional connecting bolts are standard. For internal levelling, Type SI, clearance holes standard. Tapped holes, number, size and location as specified by customer.

Limit Stops: For marine, mobile and other installations where overturning forces may be encountered, consult factory for information on Type KMS isolator with integral all-directional limit stops.

Protective Coatings: Housing painted Vista Green and zinc plated hardware standard. Consult factory for various coatings and isolator enclosures available for special applications.



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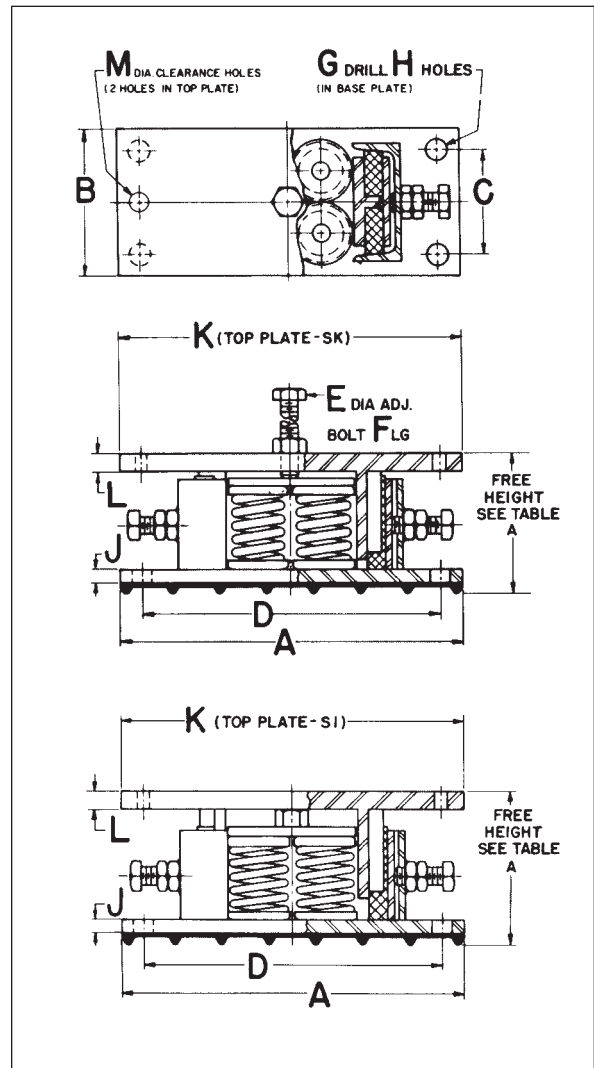
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Maximum Loads - Type SK and Type SI Levelling Mounts Housing sizes D through J

Housing Size	Isolator Spring No. (1)	Max. Capacity lbs.		Isolator Constant lbs./in.	Free Height Inches		Min Working Height inches
		Max. Steady	Max. Impact		SK	SI	
D 2 Springs	50	100		50	6"	6 7/8"	5 1/2"
	51	250		125			
	52	400		240			
	53	600		380			
	54	1000		690			
	55	1400		1120			
	56	2400		3300			
	45	650	520	880	5 1/2"	5 1/2"	
	46	900	720	1600			
	47	1200	960	2450			
57	2200	1650	4260				
68	2600	2450	5300		5 1/2"		
E 4 Springs	50	200		100	6 1/4"	7 1/8"	5 1/4"
	51	500		250			
	52	800		480			
	53	1200		760			
	54	2000		1380			
	55	2800		2240			
	56	4800		6600			
	45	1300	1040	1760	5 1/4"	5 3/4"	
	46	1800	1440	3200			
	47	2400	1920	4900			
57	4400	3300	8520				
68	5200	4900	10,600		6 1/8"		
G 9 † Springs	51	1125		563	7"	8"	6 3/4"
	52	1800		1080			
	53	2700		1710			
	54	4500		3105			
	55	6300		5040			
	56	10,800		14,850			
	45	2925	2340	3960	6 3/4"	7"	
	46	4000	3200	7200			
	47	5400	4320	11,025			
	57	9900	7425	19,160			
68	11,700	11,025	23,850				
H	754	7640	5720	11540	7 1/2"	8 3/4"	SKH 7"
	755	9540	7150	14,430			
	756	11,450	8580	17,320			
	757	13,370	10,000	20,200			
	758	15,300	11,460	23,090			
	759	17,200	12,900	25,970			
J	7512	22,900	17,160	34,640			SIJ 8 1/4"



Dimensions

Housing Size	Dimensions (inches)											
	A	B	C	D	E	F	G	H	J	K	L	M
D	9 1/2	5	-	8 1/4	3/4	6	3/4	2	3/4	9 1/2	1/2	3/4
E	11 1/2	5	-	10 1/2	3/4	6	3/4	2	3/4	11 1/2	3/4	3/4
G	16	7	3 1/2	14	1	6	3/4	4	1/2	16	3/4	3/4
H	18	7	3 1/2	16	1 1/4	6	3/4	4	3/4	18	1	1 1/4
J	20 1/4	7	3 1/2	18 1/4	2-1	-	3/4	4	3/4	20 1/4	1	1 1/4

(1) First 2 digits indicate spring designation number. Additional digits, if any, indicate quantity of springs used. Different springs may be combined in an isolator for special conditions: for example, SKE-452-462 has two #45 and two #46 springs.

† 7 or 8 springs may be used for special job conditions

Ratings listed under "STEADY" are maxima for steady running applications (no impact).

Ratings listed under "IMPACT" are maxima for impact applications on punch presses, hammers and pulverizers.

Minimum operating height = free height - spring deflection, or dimension shown in referenced column, whichever is greater.



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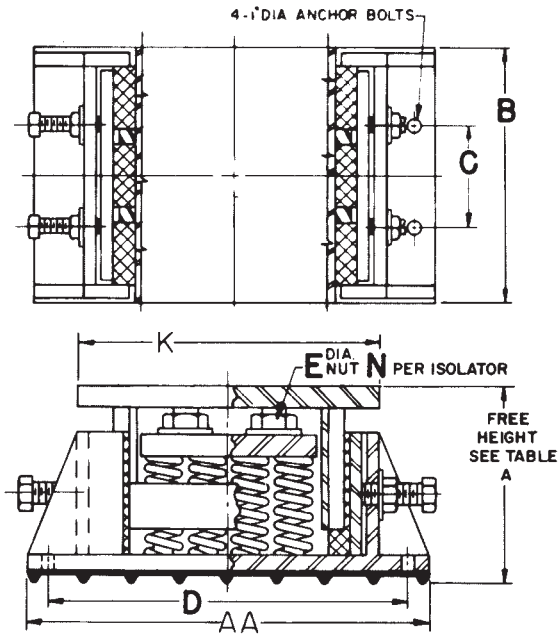
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Maximum Loads - Type SI High Capacity Levelling Mounts Housing Sizes P through W

Isolator	Max. Capacity In Pounds		Isolator Constant lbs./in.	Free Height	Min. Working Height
	Max. Steady	Max. Impact			
SIP-7522	42,000	31,000	64,000	11½"	10¾"
SIS-7536	68,000	51,000	104,000	11"	10¾"
SIT-7544	84,000	63,000	128,000	11¾"	11"
SIV-7554	103,000	77,000	157,000	11"	10¾"
SIW-7566	125,000	94,000	191,000	12"	11¾"

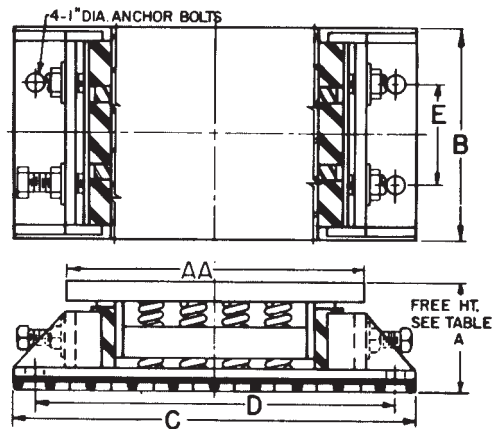


Dimensions

Housing Size	Dimensions (inches)						
	AA	B	C	D	E	N	K
P	24½	13	7	21½	2¼	1	18½
S	36	13	7	32½	1¾	2	30
T	38	14	7½	34¾	2¼	2	32
V	49½	14	7½	46	1¾	3	42
W	51½	15	8	48	2¼	3	44

Maximum Loads - Type SO High Capacity Non-Levelling Mounts. Housing Sizes P through W

Isolator	Max. Capacity In Pounds		Isolator Constant lbs./in.	Free Height	Min. Working Height
	Max. Steady	Max. Impact			
SOP-7520	38,000	29,000	58,000	6½"	6"
SOS-7536	68,000	51,000	104,000	7¾"	6¾"
SOT-7542	80,000	60,000	122,000	7½"	7"
SOV-7556	106,000	80,000	162,000	7½"	7"
SOW-7564	122,000	92,000	186,000	7¾"	7¾"



Dimensions

Housing Size	Dimensions (inches)				
	AA	B	C	D	E
P	15	13	21½	18½	7
S	20	16	27½	24	10
T	22	16	29½	26	10
V	26	19	33½	30	12
W	26	21	33½	30	13



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Typical Installation Configurations

The Series S Isolator is normally fastened to the floor, foundation, sub-structure or deck by bolting through the holes provided in the base plate. It can be fastened to the equipment by the various arrangements shown in Figures 1 through 6. *Korfund Dynamics reserves the right to approve the fastening method for all applications.*

EXTERNAL ADJUSTING (TYPE SK) AND INTERNAL ADJUSTING (TYPE S), HOUSING SIZES THROUGH H.

1. The standard method of fastening the Type SK isolator to the machine is by using the external adjusting bolt as shown in Fig.1.
 2. Where additional fastening is necessary, i.e., large horizontal forces, the external adjusting bolt can be used in combination with bolts through the standard clearance holes in isolator top plate. Fig.2.
- The standard method of fastening the internal Type SI isolator housing sizes D through J is by bolting through standard clearance holes in the isolator top plate.

TYPE SI (INTERNAL ADJUSTING) AND TYPE SO (NON-LEVELLING)

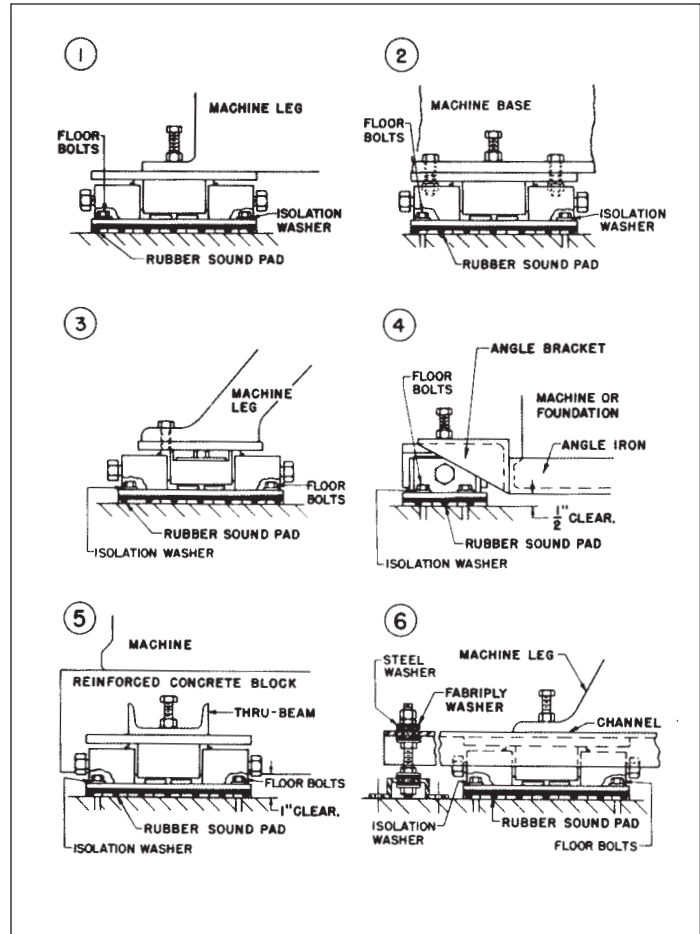
3. Machines with Bolt Holes Off Center. Where equipment cannot be accommodated by standard clearance holes in the Type SI isolator, an offset tapped hole will be furnished in the SI isolator top plate in housing sizes D through J. Fig.3.

The Type SI and SO housing sizes P through W are provided with tapped holes in the top plate as specified by the customer.

4. Height Saving Arrangement. If increase in height of isolated machine is objectionable, the machine may be supported on angle or channel cradles running between brackets (gusset plates may be used to strengthen brackets) or the brackets can be bolted or welded directly to the machine base. Fig.4.

5. Fastening to Concrete Equipment Base. With thin concrete blocks the isolators may be placed under the block with extra long adjusting bolts (extra charge) passing through cast-iron pipe sleeves. For thicker blocks the isolators can be attached to the ends of cast-in beams running through the entire block. Fig.5.

6. Limit Stops. Where large external forces, i.e., marine or mobile installations, earthquake applications or where large overturning forces are present, limit stops must be used. If limit stops cannot easily be accommodated, consult Korfund for information on the Type KMS all welded steel, all directional, steel spring isolator with built-in limit stops.



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