Housed Spring Mount

1. Compliance:

1.1. Designed to BS 1726 -1 : 1987

1.2. Tolerance to BS 1726-1 : 2002

1.3. SAE and Ashrae Guidelines for Vibration Isolation.

2. Application:

The Housed Spring Mounts are used for isolating floor mounted sources of noise and vibration. These are made of nitrile rubber housing, nitrile rubber pads and epoxy powder coated springs. Since springs are housed inside rubber casing, it eliminates low frequency vibrations effectively. The nitrile rubber pads provided below the casing will effectively control vibrations of audible range. These are effectively used in Axial / Centrifugal Fans, Air Handling Units, Chillers and Cooling Towers, Rotary and Multi Cylinder Compressors, Diesel Generating Sets, Mechanical Test Rigs, Isolation of Sensitive Equipment etc.

3. Product Features:

3.1. Oil resistant Nitrile rubber housing provides better elimination of vibration and sound.

3.2. Housed casing protects the springs from corrosion.

3.3. The horizontal stiffness of the spring is more than 80% of vertical stiffness. Also fully closed rubber casing prevents further lateral movements. This makes HSM model spring mounts highly stable and durable in all working environments.

3.4. The maximum deflection shall be 60% of total deflection at rated load with 50% overload capacity.

3.5. Provided with levelling adjustments.

3.6. Neoprene pads of 8-13mm are provided which ensure 3-4 mm deflection.

3.7. Colour Coded labels for easy identification.

3.8. The HSM mounts are available on following material specifications.

3.8.1. Zinc plated metallic casings - no suffix.

3.8.2. Hot dip galvanized – use HDG as suffix.

3.8.3. Stainless steel – use SS as suffix.

Bestfit

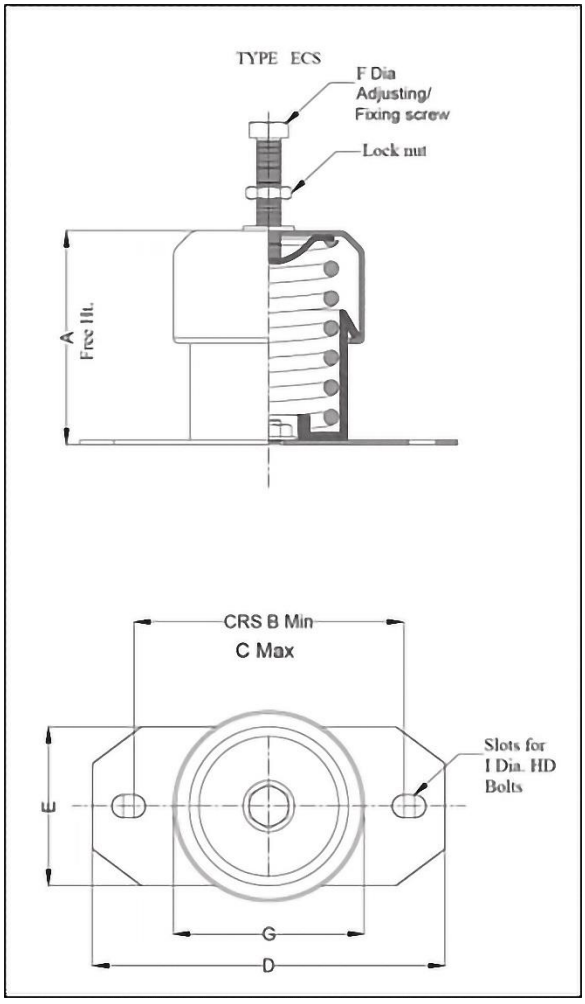
SPECIFICATION

Part No.	Colour Code	Rated Load (Kg)	Deflection at Rated Load (mm)	A	B	C	D	E	F	G	H	I	J
BHSM10-S	Green	10	20	63	54	60	76	38	M8	48	-	M6	-
BHSM15-S	Black	15	20										
BHSM20-S	Yellow	20	20										
BHSM40-S	Blue	40	20										
BHSM70-S	Grey	70	20										
BHSM25-A	Green	25	25	88	85	90	110	70	M10	78	-	M8	-
BHSM50-A	Black	50	30										
BHSM75-A	Yellow	75	25										
BHSM100-A	Blue	100	25										
BHSM150-A	Grey	150	25										
BHSM200-A	Orange	200	25										
BHSM250-A	Brown	250	25										
BHSM300-A	Purple	300	25										
BHSM200-B	Yellow	200	25	127	130	150	180	95	M16	111	-	M12	-
BHSM300-B	Blue	300	25										
BHSM400-B	Brown	400	25										
BHSM500-B	Orange	500	25										
BHSM600-B	Green	600	25										
BHSM700-B	Pink	700	25										
BHSM800-B	White	800	25										
BHSM1000-B	Purple	1000	25										
BHSM1200-B	Red	1200	25										
BHSM1400-B	Black	1400	25										
BHSM100-C	Blue	100	50	155	130	150	180	95	M16	111	-	M12	-
BHSM200-C	Yellow	200	50										
BHSM300-C	Blue	300	50										
BHSM400-C	Brown	400	50										
BHSM500-C	Orange	500	50										

Theoretical Isolation Efficiency

Machine Speed (rpm)	Efficiency %		
	15 mm defl.	25 mm defl.	50mm defl.
300	Do Not Use	34.0	75.2
500	68.7	83.3	92.3
750	88.1	93.2	96.7
1000	93.7	96.3	98.2
1200	95.7	97.4	98.7
1500	97.3	98.4	99.2
1750	98.0	98.8	99.4
2000	98.5	99.1	99.5

The above figures are theoretical values only based on the vertical natural frequency of the spring system assuming infinitely stiff structural supports. The effects of high frequency spring coil resonances on low frequency performance are also ignored.



Note:

- Due to policy of continuous improvement, the specifications are subject to change without prior notice.
- Measurements are subject to 5% tolerance.
- To achieve good sound suppression, do not overload fitting.