



RoHS Compliant

NBK®

No.E-9942

Built-in Vibration Isolation Mounts (Midweight Type)

Material Plate: SPHC Bolt/nut: SWRCH10R

Surface Treatment Trivalent chrome plating

This mount is for incorporation into other equipment and uses expanded polyurethane vibration isolation material which offers excellent vibration isolation.

Features

This is able to isolate low-frequency vibrations

- Able to isolate low-frequency vibrations by using expanded polyurethane, which surpasses rubber-based vibration isolation materials.

Suitable for a Wide Range of Loads

- Suitable for a wide range of loads from 100 N to 3,100 N.

Wide Variety of Vibration Isolation Materials

- 2 to 4 different types of vibration isolation materials are available for each size. This allows you to minimize differences in size even for different loads.

Freely selectable combinations of connection methods

- For the midweight type, you can choose a combination of male and female screws.

Applications

Isolation of Vibrations From External Sources

- Isolates transmission of vibrations from external sources such as to precision measuring instruments, inspection equipment, and machining tools.

Suppression of Vibrations Transmitted to External Devices

- Suppresses vibrations from vibrations sources such as pumps and generators from being transmitted to external devices.

Jig Set-up Systems (Q-lock)

Base Elements

Clamp Units

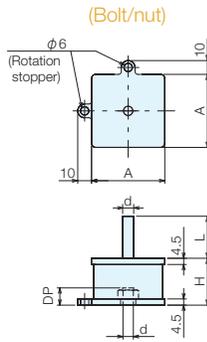
Clamping Parts

Mechanical Parts

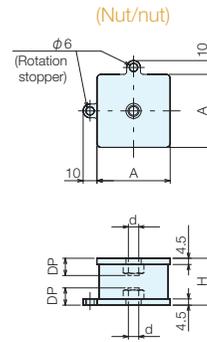
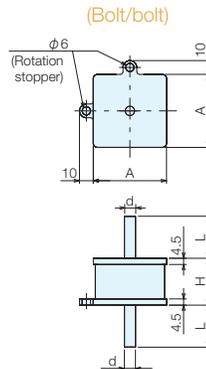
Machine Vises

Surface Plates and Measurement Instruments

Index

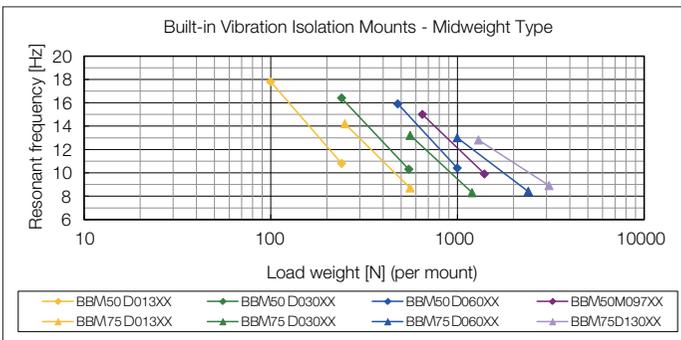


* The bolt for fixing the nut side should fit within the DP dimensions.



* The bolt for fixing should fit within the DP dimensions.

Characteristic Data



Selection Points

Read the resonant frequencies of the mounts depending on the load from the table on the left and select the mount where the resonant frequency is 1/2 (0.5 times) or less the frequency of the vibration you want to isolate.

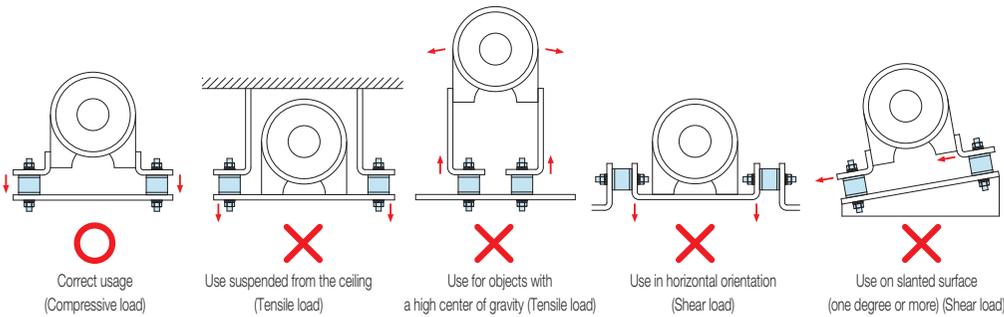
Selection Examples If you want to isolate the vibrations from a pump running at 1,800 rpm with a load of 300 N on each mount

- The vibration frequency generated by the pump is 1,800 rpm/60 seconds = 30 Hz. Therefore, select mounts that have a resonant frequency of 30 Hz/2 = 15 Hz or less.
- The BBM75D013 (resonant frequency of approx. 13 Hz with a 30 N load) or BBL50D030 (resonant frequency of approx. 15 Hz with a 300 N load) are suitable for this case.

Specifications

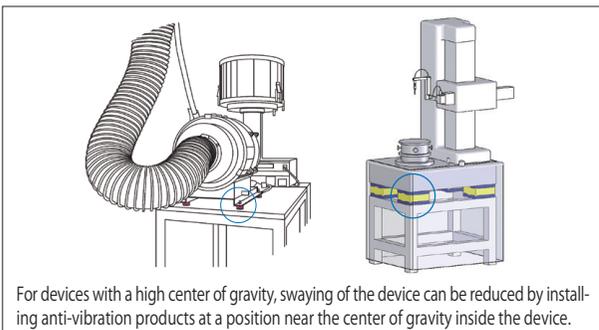
Order No.	No.	Vibration Isolation Material Color	Type	Size [mm]					Maximum Allowable Load N	Resonant frequency [Hz]*1	Target Vibration Frequency [Hz]*2	Vibration Isolation Material Deformation [mm]*3	Weight (g)
				A	H	d (Coarse Thread)	L	DP					
109414	BBM50D013NB	Dark yellow	Bolt Nut	53	34.0	M8 × 1.25	30.5	8	100 - 240	11	22 -	2	250
109415	BBM50D030NB	Dark green							240 - 550	10	21 -	3	260
109416	BBM50D060NB	Dark blue							480 - 1000	10	21 -	3	270
109417	BBM50M097NB	Dark magenta							650 - 1400	10	20 -	4	270
109418	BBM75D013NB	Dark yellow	Bolt Nut	78	46.5	M12 × 1.75	50.5	12	250 - 560	9	17 -	4	590
109419	BBM75D030NB	Dark green							560 - 1200	8	17 -	4	620
109420	BBM75D060NB	Dark blue							1000 - 2400	8	17 -	4	650
109421	BBM75D130NB	Purple							1300 - 3100	9	18 -	4	670
109422	BBM50D013BB	Dark yellow	Bolt Bolt	53	34.0	M8 × 1.25	30.5	-	100 - 240	11	22 -	2	260
109423	BBM50D030BB	Dark green							240 - 550	10	21 -	3	270
109424	BBM50D060BB	Dark blue							480 - 1000	10	21 -	3	280
109425	BBM50M097BB	Dark magenta							880 - 1900	10	20 -	4	280
109426	BBM75D013BB	Dark yellow							250 - 560	9	17 -	4	630
109427	BBM75D030BB	Dark green							560 - 1200	8	17 -	4	660
109428	BBM75D060BB	Dark blue							1000 - 2400	8	17 -	4	690
109429	BBM75D130BB	Purple	1300 - 3100	9	18 -	4	720						
109430	BBM50D013NN	Dark yellow	Nut Nut	53	34.0	M8 × 1.25	-	8	100 - 240	11	22 -	2	240
109431	BBM50D030NN	Dark green							240 - 550	10	21 -	3	250
109432	BBM50D060NN	Dark blue							480 - 1000	10	21 -	3	260
109433	BBM50M097NN	Dark magenta							880 - 1900	10	20 -	4	260
109434	BBM75D013NN	Dark yellow							250 - 560	9	17 -	4	540
109435	BBM75D030NN	Dark green							560 - 1200	8	17 -	4	580
109436	BBM75D060NN	Dark blue							1000 - 2400	8	17 -	4	610
109437	BBM75D130NN	Purple	1300 - 3100	9	18 -	4	630						

Usage Warnings



- If the resonant frequency of the mount is $1/\sqrt{2}$ (0.7) times or higher than the vibration frequency you want to eliminate, damping effect will not act and the vibrations will be amplified. The mount should be used loaded under compression.
 - It cannot be used with a tensile or shear load. (Refer to the examples above)
- You should also ensure that the mounts are not loaded with tensile or shear loads during transport and storage. The mount may become damaged if subjected to tensile or shear loads.

Usage Examples



For devices with a high center of gravity, swaying of the device can be reduced by installing anti-vibration products at a position near the center of gravity inside the device.