


Antivibration Adjustment Pads

Leveling Mounts

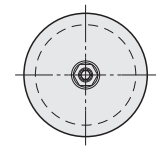
For Round Type, turn the thread tip to adjust height. For Square Type, turn the handwheel to adjust height.



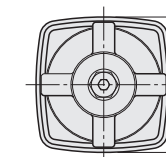
Round
KFJA
KFJB
KFJH

Square
KFJM

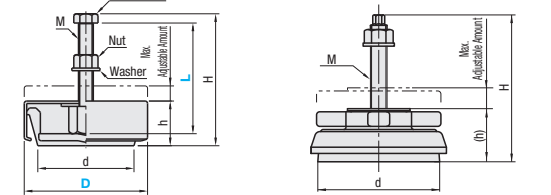
Type	Housing		Bolt		Antivibration Rubber	
	Material	Surface Treatment (Color)	Material	Surface Treatment	Material (Color)	Hardness
KFJA, KFJB, KFJH	EN 1.0038 Equiv.	Baked Melamine Finish (Black)	EN 1.0038 Equiv.	Trivalent Chromate	Chloroprene Rubber (Black)	Shore A75 (Shore A55 for KFJA)



Round
KFJA
KFJB
KFJH

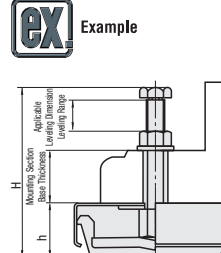


Square
KFJM



Nut Wrench
Nut
Washer
Adjustable Amount
Max. Adjustable Amount
H
h
d

Example

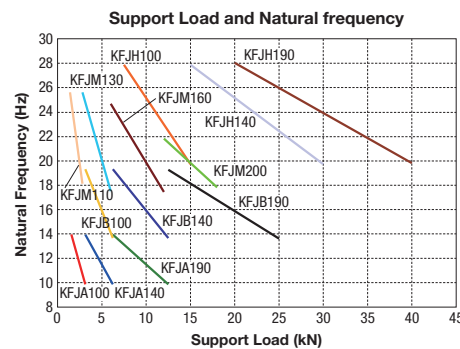


Type	Part Number	D	L	Vertical Load Range (kN)		H	(h)	d	M	Tip Dimension of Screw		Max. Adjustable Amount (mm)	Mounting Base Thickness (mm)	Spring Constant (kN/mm)	Unit Price	Volume Discount Rate
				Min.	Max.					b	ℓ					
Round	KFJA (Light Load)	100	90 120 200	1.55	3.1	L+31	39	78	12	8	7.5	18	L-48	1.2	1 ~ 9 pc(s)	10~30
		140	120 200	3.1	6.3	L+37	47	114	16	10	8.5	19	L-55	2.4		
		190	120 200	6.3	12.5	L+44	56	158	20	12	8.5	25	L-69	4.8		
	KFJB (Medium Load)	100	90 120 200	3.15	6.3	L+28	39	78	12	8	7.5	18	L-51	4.6		
		140	120 200	6.3	12.5	L+37	47	114	16	10	8.5	19	L-55	9.2		
		190	120 200	12.5	25.0	L+44	56	158	20	12	8.5	25	L-69	18.3		
KFJH (Heavy Load)	100	90 120 200	7.5	15.0	L+17	35	78	12	8	7.5	22	L-62	23.0			
	140	120 200	15.0	30.0	L+21	42	114	16	10	8.5	24	L-71	46.0			
	190	120 200	20.0	40.0	L+28	54	158	20	12	8.5	27	L-84	62.0			
Square	KFJM	110	85 200	1.4	2.8	L+30	47	97	12	8	7.5	15	L-40	3.7		
		130	110 200	2.8	6.0	L+31	51	117	16	10	8.5	20	L-50	7.4		
		160	110 200	6.0	12.0	L+41	65	146	16	10	8.5	24	L-55	14.7		
		200	130 220	12.0	18.0	L+47	76	185	20	12	8.5	27	L-65	23.0		

Ordering Example: Part Number - L
KFJH140 - 120

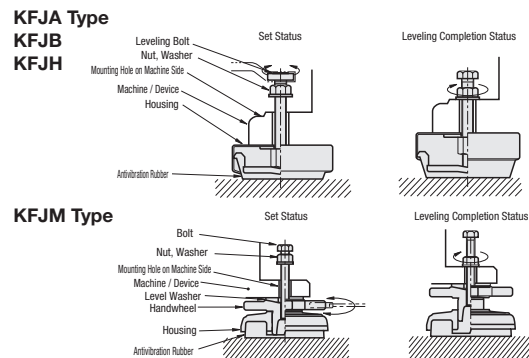
How to Select

- Calculate applied load per antivibration mount.
Ex.) When an object of 40kN load is supported by 4 supporting points
40kN/4=10kN
- Calculate frequency for supported object
As the frequency is the number of vibration per second,
Ex.) When motor speed is 3000rpm: 3000/60(s)=50Hz
Select an antivibration mount with natural frequency less than half of the frequency of vibration sources (motors, etc.)
50/2=25Hz
- If the vibration is square root of 2x or less, it is within the range of resonance. Please select again.
- The natural frequency can be found by following along the mount's applied load axis to reach the intersections with the graph lines of respective part numbers.
Ex.) In the case of motor with 10kN and 50Hz, when KFJM160 is selected, the natural frequency will be 20Hz. When KFJH100 is selected, the natural frequency will be 25Hz.




Installation Method

- Jack up the machines and devices (sling up) to place the mounts under the holes.
(For KFJM type, place a level washer on the mounts, and lower the machines and devices.)
 - Insert a leveling bolt attached with a nut and a washer into the mount from the top.
(For KFJM, turn the handwheel with a tool to adjust level of the machine.)
 - After horizontal level has been obtained, tighten the nut and washer.
- ⚠️ To prevent concentration of load, adjust each mount in sequence in small amounts to level.
- ⚠️ For KFJM, the leveling will be smoother if grease is applied on the contact surface of the handwheel and the level washer.



This leveling mount allows you to perform more precise leveling adjustment. Use it for leveling by mounting it where the device is installed.



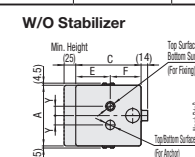
KHWM-C
(W/O Pad)

KHWM-P
(With Pad)

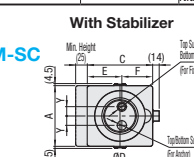
KHWM-SC
(W/O Pad)

KHWM-SP
(With Pad)

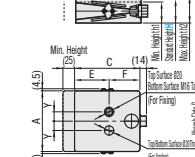
Type	Main Body		Adjusting Bolt		Stabilizer		Rubber	
	Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	Material (Color)	Hardness
KHWM-C	Grey Casting	Baked Finish	EN 1.1191 Equiv.	Electrolytic Zinc Plating	-	-	Nitrile Rubber (Blue)	Shore A95
KHWM-P	Ductile	-	-	-	EN 1.0038 Equiv.	Electrolytic Zinc Plating	Nitrile Rubber (Blue)	Shore A95



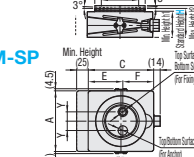
W/O Stabilizer
KHWM-C
(W/O Pad)



With Stabilizer
KHWM-SC
(W/O Pad)



W/O Pad
KHWM-P
(With Pad)



With Pad
KHWM-SP
(With Pad)

Ordering Example: Part Number
KHWM-SC56

Features

- This leveling mount allows for installation of devices and apparatuses and to adjust the heights by the effect of integrated special springs.
- Because the adjusting bolt head will not move back and forth during leveling adjustment, this will improve your work efficiency.
- Low particle generation fluorinated grease is applied to Standard Type, which is suitable for clean environments. (Clean Room Class is not guaranteed.)
- With Pad Type has an attenuation effect for self-induced vibration. Also excels in oil resistance and non-migration property (color transfer to the floor).
- With Stabilizer Type is applicable to the floor inclination (±3°) to keep the device horizontal, which ensures stable work environments.

Grease Characteristics

Name	Item	Contained Amount	Unit	Measurement Method	Conditions
Fluorinated Resin Thickener	Fluorinated Resin	-	-	-	-
	Per-Fluoro Polyether Oil	Base Oil	-	-	-
Dropping Point	None	-	-	JIS K-2220	5, 4
	Evaporation Amount	≤0.2	mass%	Proprietary scheme	-
Oil Separation	≤10	mass%	-	Proprietary scheme	200°C, 24h
	mass%	-	-	-	-

Features: Achieves good lubricating performance in wide range of temperature from low to high.

Bottom Pad



Example of Stabilizer



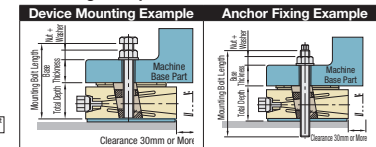
Major Application

- FPD Manufacturing Processor
- Semiconductor Manufacturing Processor
- Precision Metal Processor
- Large Precision Measuring Instrument
- Other Devices and Apparatuses

How to Mount

- The flange, frame and the floor of the device on which leveling mounts are to be mounted require adequate rigidity.
- Place a device gently onto the leveling mount.
- When mounting a leveling mount on the device with bolts, align the mounting holes of the device and the tap position of the leveling mounts. Next, insert a hex bolt, a hex nut and a plain washer into a mounting hole of the device and screw them in the tap. Tighten the hex nuts and plain washers after the leveling adjustment of step ③. Please note that if the support load is extremely light, the leveling mount may slant due to the over-tightening of nuts.
- Turn the hex head (hole) on the front side of the leveling mount by a tool and adjust the level of the device. Turn clockwise to increase the level and counterclockwise to decrease.
- Adjust each leveling mount gradually to avoid load concentration on the leveling mount.

Mounting Example



Bolt, Nut and Washer Selection Example

Part Number	How to Mount	Mounting Height H			Selected Bolt	
		Screw-In Depth (Overall Depth)	Base Thickness	Nut Washer		
KHWM-P52 KHWM-P56 KHWM-SP61 KHWM-SP67 KHWM-C47 KHWM-C51 KHWM-SC56 KHWM-SC62	Device Mounting	53	Arbitrary	13	2.5	RCB16-L Dimension
		57				
		62				
		68				
		53				
		57				
		62				

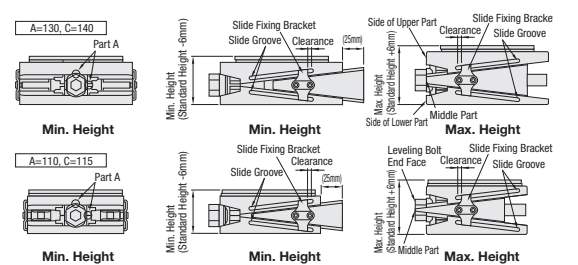
About Anchor Bolts

- Anchor/Please prepare the size M16 (coarse) mounting bolts on your side.
- Length of anchor bolts ≥ device flange/frame thickness + depth of screwed-in leveling mount (total depth) + hex nut and plain washer thickness.
- Anchor bolt mounting holes can be ignored when not necessary.

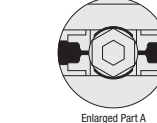
Leveling Adjustment Range

Make sure to keep the leveling adjustment range within the operating range (±6mm) as shown in the above table. Verify that the approximately 1mm of clearance is provided at the Part A shown below for the minimum height. This clearance is to avoid interference between the slide groove and the slide fixing bracket.

Note that if the level is lower, the casted main body will be in contact and the slide fixing bracket will come off from the slide groove, which will cause damage or breakage. For the maximum height, the top of the middle part slides to the side edge of the upper/lower part for A130 and C140, while it slides to the edge of the leveling bolt for A110 and C115. Do not increase the height further.



Example



Other Cautions

- Jack up the device at a certain height previously, install the leveling mounts and make a final adjustment using the leveling mounts.
- The middle part (wedge shape) moves back and forth during leveling adjustment. Keep the clearance of at least 30mm on the back of the leveling mounts.
- Please pay close attention to safety measures.