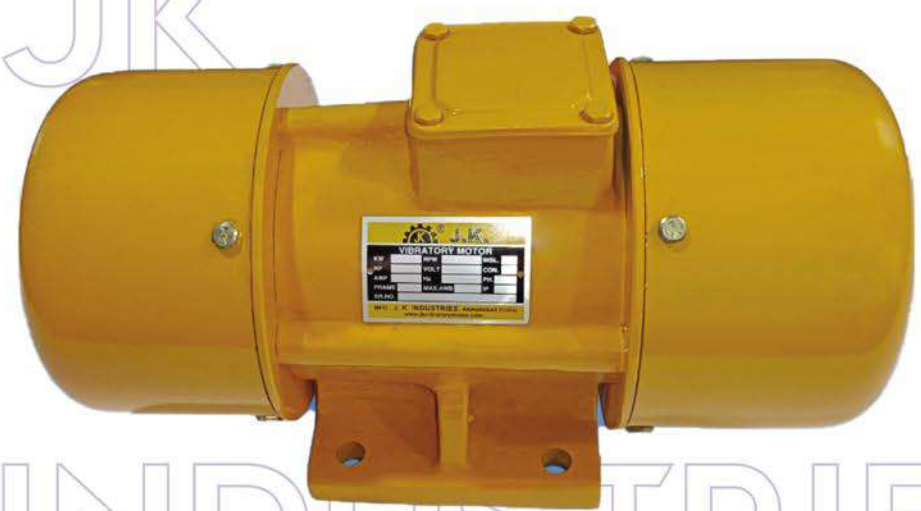
JK INDUSTRIES



MANUFACTURER OF ALL TYPES OF
VIBRATORY MOTORS &
VIBRATORY EQUIPMENTS

"Vibrate the world"

About Us

With rich knowledge about the technicalities and use of vibrators, our company, J. K. Industries started its business. Vibrators are the drive element, find their usage in the construction industry for emptying, cleaning testing, conveying, compacting and feeding of all kind of products. Apart vibrators are also used in the industries such as chemical, pharmaceutical, food, electronics, foundries, animal feed industry and packaging.

We are well famous in the market as a manufacturer, supplier and trader, offering reliable Vibration Motor, Unbalance Vibrator Motor, Foot Mounted Vibratory Motors, Flange Mounted Vibratory Motors, Force Motor, Vibration Equipment and Vibratory Feeder Motor. Along with these, we offer Vibratory Machine Motor, Electric Unbalance Vibrator Motors, Vibratory Screen Motor, Unbalance Vibro Motors, Industrial Vibratory Motors, Industrial Vibrator Motor etc.

Our company is more than 15 years old, crowned with eminent ISO 9001:2008 certification, which makes a large number of clients trust us. Ever since our formation, we have never looked back, our focus on bringing innovations & adding new features to the product-line have enabled us to become a leading company of the domain.

Our Clients From Various Industries

- Glass
- Food
- Packaging Industries
- Ceramic
- Foundries
- Process Plants
- Chemical
- Iron and Steel
- Coal Power Plant
- Metal

Management

Our company is guided by intelligent management staff for meeting the requirements of the respectable customers. The higher authorities of our company is highly knowledgeable & experienced about vibrators and many other related products, which help them in serving remarkable gamut to the customers. Our management time to time guides and motivates all the appointed personnel so that they can give their best and make company climb up to the ladders of success.

These are in particular conveyor thoughts, screens & Vibrating table for all types of bulk materials. Vibrators are also used in construction industry as internal application are mainly conveying, compacting, emptying, cleaning testing and feeding of all kind of products.

Vibrators are used in almost all industrial areas like chemical applications, food industry Pharmaceutical industry, electronics, foundries construction industry animal feed industry and in the packaging industry.

our services is Electric Vibratory Motor, vibratory screen motor, vibrating table motor,vibrator motor, vibratory motor manufacturers, vibration motor, bowl vibro motor, vibration motor manufacturers, center flange vibratory motor, vibratory motor supplier.

Exports

- We are having our presence in varied parts of the world, following are some of the countries, where our loyal customers are residing

- Europe
- Africa
- Russia
- Asia

Our Clients Specification

We have clients across the country and globe. Our fair business deals and professional attitude has helped us to satisfy clients with varied needs from all over the world. We successfully meet the deadlines set by our clients and deliver them on time. We strive to build a long lasting relationship with our clients. We have association with some of the big names in the industry and our objective is to further expand our business horizon by venturing into the key international markets.

Our services is Electric Vibratory Motor, vibratory screen motor, vibrating table motor,vibrator motor, vibratory motor manufacturers, vibration motor, bowl vibro motor, vibration motor manufacturers, center flange vibratory motor, vibratory motor supplier.

Research & Development

J K Industries is stepping ahead in the market with its high focus towards quality. Our R&D department has always played crucial role in delivering A quality products to the customers. The surveys and researches we conduct help in adding new features in the existing range of Vibration Motor, Three Phase Vibratory Motors, Vibration Motor Drive, Vibratory Equipment, Electric Unbalance Vibrator Motors, Industrial Vibratory Motors, etc.

Our R & D experts always keep themselves abreast of technological advancements and also strive to update product-line as well as manufacturing techniques, accordingly. We have a modern quality evaluating division, where our products are examined on varied parameters to ensure perfection. Owing to such high focus towards making & delivering qualitative products, we have got ISO 9001: 2008 certification.

Devoted to the growth of the industry, one of the cornerstones of the company's advancement is its ground-breaking and result-oriented R & D Center.

Our Products

Foot
Vibratory Motor
(1 HP to 10 HP)

Flange
Vibratory Motor
(1 HP to 10 HP)

FLANGE VIBRATORY MOTOR
(1 HP TO 10 HP)

DIMENSIONAL DETAILS FOR THE **FLANGE MOUNTED VIBRATION MOTORS**

MODEL NO.	POWER INPUT HP	PCD	MOUNTING HOLE DIA X NOS. OF HOLES	OD
JKF-01	0.25	160	12 mm X 6 noc.	180
JKF-02	0.50	180	14 mm X 6 noc.	225
JKF-03	1.00	230	14 mm X 6 noc.	270
JKF-04	2.00	230	18 mm X 6 noc.	270
JKF-05	3.00	270	22 mm X 6 noc.	300
JKF-06	5.00	300	25 mm X 6 noc.	360
JKF-07	7.00	360	27 mm X 6 noc.	410
JKF-08	10	400	27 mm X 6 noc.	450

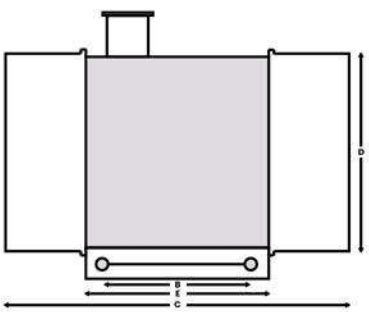
Technical Data*

- **Centrifugal force range of the type series :** *0-12000 Kgs/Meter*
- **Operating Voltages :** *Standard version 380/440 V, 50/60 Hz, others on request.*
- **Ambient temperature :** *25째 C to 80째 C,* **different temperature ranges on request.**
- **Insulation Class : F**
- **Operation :** *Continuous Service at the maximum indicated centrifugal force and Electric Power rating.*
- ***Fixing :*** *The Electric vibration can be fixed in all positions with no limitations.*
- ***Terminal Box :*** *Sized to make the electrical connections easier.*
- ***Bearings :*** *The lower and upper bearings have been designed to support the relative load.*
- ***Drive Shaft :*** *Oversized, made of treated steel and able to withstand high stress.*

FOOT MOUNTED HEAVY DUTY VIBRATORY MOTOR
(1 HP TO 10 HP)

DIMENSIONAL DETAILS FOR THE **FOOT MOUNTED HEAVY DUTY VIBRATION MOTOR**

MODEL NO.	POWER INPUT HP	Fig No.	A	B	C	D	E	F	H	T	B1	B2	mounting hole Dia & Nos. Of hole	Maximum centrifugal Force
JKV-01	0.18	Fig-1	80	50	205	111	80	105	130	10	-	-	11mm X 4 noc.	
JKV-02	0.25	Fig-1	80	85	280	131	110	110	170	12	-	-	13mm X 4 noc.	
JKV-03	0.5	Fig-1	120	85	320	158	130	165	195	15	-	-	16mm X 4 noc.	
JKV-04	1.00	Fig-1	140	108	390	182	155	185	215	18	-	-	16mm X 4 noc.	
JKV-05	2.00	Fig-1	150	130	440	200	190	205	250	20	-	-	19mm X 4 noc.	
JKV-06	3.00	Fig-1	200	130	540	220	190	250	290	22	-	-	22mm X 4 noc.	
JKV-07	5.00	Fig-2	210	170	610	240	230	275	355	25	85	85	25mm X6 noc.	
JKV-08	7.5	Fig-2	280	200	760	280	275	350	390	32	100	100	27mm X6 noc.	
JKV-09	10	Fig-2	395	235	940	340	325	460	425	35	117.5	117.5	28mm X6 noc.	



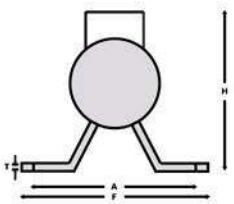
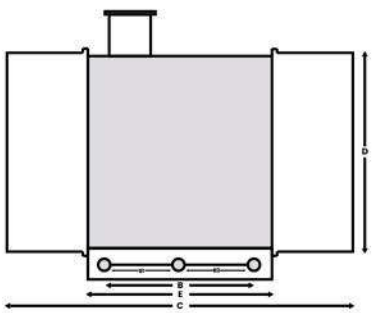


Figure - 1



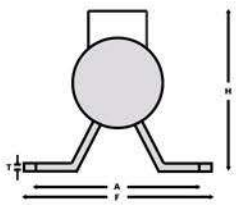


Figure - 2

Our Range of Products

Center Flange Vibratory Motor

Double Flange Vibratory Motor

Top Flange Vibratory Motor

Unbalanced Motor

Vibratory Motor

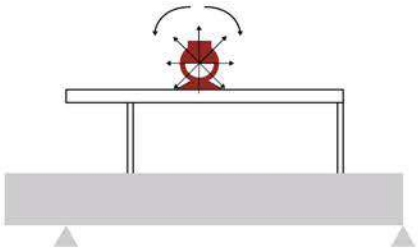
Vibration Motor

Foot Vibratory Motors

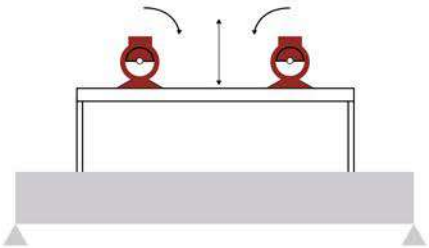
SELECTION OF VIBRATOR

1 Choose rpm and the amplitude "e" (0-peak) suitable for your application.

Circular Vibration



Linear Vibration



Application Process	Vibration		Revolutions per minute				
			50Hz	750	1000	1500	3000
	Circular	Linear	60Hz	900	1200	1800	3600
Conveying		✓		✓	✓		
Sepration / Screening/ Sizing		✓	✓	✓	✓		
Positioning / Feeding		✓	✓	✓	✓		
Filter Cleaning	✓						
Silo/hopper emptying							
Fluid beds		✓	✓	✓			
Bin activators					✓	✓	
Compacting		✓					✓
Concrete Consolidation							✓

rpm	e(mm)	
	Min.	Max.
3600	0.3	0.6
3000	0.3	0.8
1800	1.2	2.2
1500	1.4	2.6
1200	2.5	4.0
1000	3.0	5.2
900	3.5	5.5
750	3.5	6.0

2 Choose an JK VIBRATOR from the lables of the following pages and use its Wm into this formula :

$$e = 5 \times \frac{N \times Wm}{N \times M^{mot} + M^{vm}}$$

E = Amplitude of vibration 0-peak (mm)
n = Number of vibrating motors
W = working moment (kgcm)
M_{mot} = Motor weight (kg)
M_{vm} = vibrating machine weight (without material and motors)

INSTALLATION

MOUNTING

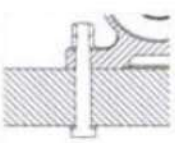
The base plate surface where the vibrator motor is mounted has a allowable tolerance of 0.25mm (0.01in), so that the surface rest uniformly against each other to avoid internal tenion that may cause breakage of the foot of the vibrator motor.

The graph below shows the correct torque settings for the different bolt sizes used on the motor vibrators.

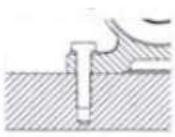
MOTOR/ MACHINE INTERFACE

Screw		Washer		Clamping torque	
Matric	Imperial	Matric UNI 6592	Imperial Flat washer	(Nm)	(Fftlb)
M6	1/4"	6.4 x 12	1/4"	9	6.5
M8	5/16"	8.4 x 16	5/16"	23	16.5
M10	3/8"	10.5 x 20	3/8"	45	33
M12	1/2"	13 x 24	1/2"	80	58
M16	5/8"	17 x 30	5/8"	185	137
M20	13/16"	21 x 37	13/16"	373	275
M22	7/8"	23 x 39	7/8"	550	411
M24	15/16"	25 x 44	15/16"	696	513
M27	1"	28 x 50	1"	873	645
M36	1-3/8"	37 x 66	1-3/8"	1864	1370
M42	1 5/8"	37 x 66	1 5/8"	2850	2102

FIXING

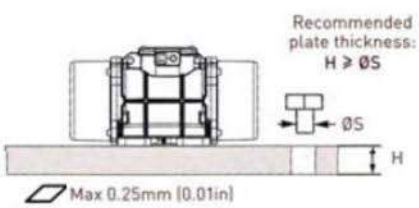


Smooth through borehole
* screw
* flat washer
* nut and counternut



Tapped threaded borehole
* screw
* flat washer

SURFACE FLATNESS TOLERANCE



MACHINED & NOT PAINTED SUPPORT PLATE

ELECTRICAL CONNECTION

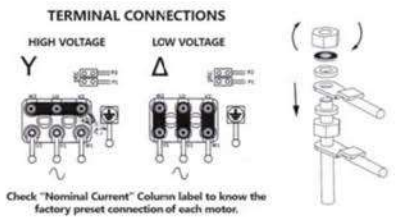
Verify that the voltage and frequency supply match the once indicated on the rating plate of the electric vibrator. If the motor is operated via a variable frequency drive do not run it under 20Hz and not over the rated frequency. Insert the power cable through the cable gland. the lead-in-wires have to be of the eyelet-type, pre-insulated, with a bore that suits the terminals of the junction box in order to prevent overheating of the wire. Use only conductors that have a suitable cross-section.

Connect the lead wires to the pins (as shown in the diagram below) and tighten them with the specified torque.

Do not forget to fix the earthing cable to the provided studs --> compulsory connection!

Before closing the junction box make sure that the cover gasket is properly fitted in order to keep the specified IP protection.

For more details on motor installation refer to product manuals.



Junction box nuts tightening torque		
Screw	NM	ftlb
M4	2.5	1.84
M5	4	2.95
M6	5	3.69
M8	6	4.43
M10	8	5.90

OVERLOAD PROTECTION

All electric vibrators Must be connected to a suitable external overload protection.

When using two electric vibrators in sync, each of them has to be connected to an external overload protection that must be interlocked to make sure both motors are stopped if one fails.

Always use a thermal-magnetic type motor protection, with delayed cut-off to avoid stopping the motor during start-up when the current draw is higher that the rated running current for a few seconds.

Cut-off of the overload protection should be set at a maximum of ± 10% of the rated current.

③ Check the obtained value "e"

If it is similar to the required one (step 1) ➡ the JK model is correct.

If it is not similar to the required one (step 1) ➡ repeat the process (step 2) with a different JK model.

Voltage DELTA/ STAR	FREQUENCY (Hz)	COUNTRY
200-230/345-400	50/60	Japan and Saudi Arabia
220-240/380-415	50	Europe and most of Asian Countries
230/460*	60	USA
330/575*	60	Canada
220-277/380-480	60	Brazil
290-300/500-525	50	South Africa
500-525 (Delta)	50	South Africa
380-480 (Delta)	60	Brazil
380-415/660-720 (Delta)	60	Canada
575 (Delta)*	50	Europe and most of Asian Countries
460 (Delta)*	60	USA
115 (single-phase)	60	USA And Canada
115 (single-phase)	50	Various
115 (single-phase)	60	Brazil
115 (single-phase)	50	Europe and most of Asian Countries

IMPORTANT

Several voltage are available to match local electric specifications worldwide both at 50Hz and 60Hz.

All JK motors can be operated with double voltage by simply changing the connections inside the terminal box form Star to Delta or vice-versa.

Three-phase JK with Double rated voltage :

⅄ (star) High Voltage - Factory preset.
△ (Delta) Low Voltage

JK with (Delta)

△ (Delta) Low Voltage - Factory Present
⅄ (Star) High Voltage

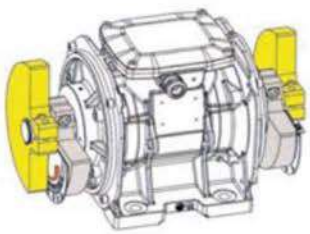
For details about "star" and "Delta" Connections

*Voltage Tolerance: ± 10%

HOW TO CHANGE THE VIBRATION INTENSITY

ADJUSTABLE MASSES - TYPE A

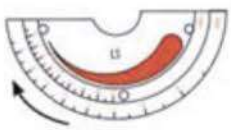
MASSES AT 100%



ADJUSTED MASSES

2 TIPS TO CORRECTLY ADJUST MASSES :

Rotate the mass following the design on the plate: from the thicker tip towards the thin tip.



left side of the motor.
for sizes up to 60

Rotate the masses in the oppsite direction to the cable gland.

left side

right side

ADJUSTABLE MASSES - TYPE B

MASSES AT 100%

ADJUSTED MASSES

The fissure in the mass indicates the degree of adjustment.

Rotate the mass following the design on the plate: from the thicker tip towards

WARNING

Do Not grease new motors before installation

JK motors with roller bearings leave the factory filled with the right quantity of grease while those with ball bearing do not need any lubrication.

Our Clients

Reliance Industries Limited

JSW

JINDAL SAW LTD. TOTAL PIPE SOLUTIONS

SANGHI CEMENT Turning Dreams into Concrete Reality
Sanghi Industries Limited

TATA STEEL

TATA POWER

BHARAT OMAN REFINERIES LIMITED

BRPL

GUJARAT AMBUJA EXPORTS LIMITED NURTURING BRANDS

NITIN A Kedia ENTERPRISE

Mahindra CIE

Ramdev SINCE 1965

CHEMCON

SAGAR CEMENT

एनएमडीसी लिमिटेड NMDC Limited

Varrsana Ispat Limited

SHRI BAJRANG POWER AND ISPAT LTD. BELIEF. STRONGER THAN STEEL.

HIRA GROWING STRONGER TOGETHER

SAYAJI INDUSTRIES LIMITED

RUBAMIN

RAMA TMT BARS Constructing Tomorrow...

RR ISPAT (A Unit of Godawari Power and Ispat Limited)

Meenakshi Your dreams, Our spirit

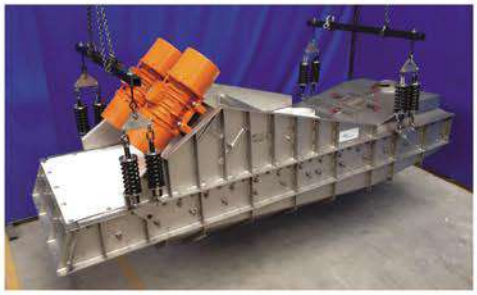
RMPCL

Balrampur Chini Mills Limited

Notes

APPLICATIONS





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