



# VIBRATORY MOTORS

SPECIAL TOUGH DESIGN TO DRIVE THE VIBRATION



# VIBRATORY MOTORS

Jaykrishna Magnetics Pvt. Ltd. manufactures vibratory motor which has 2-4 or 6 pole design are used as a drive unit for vibrating machines for many applications. We design a special type of foot mounted vibratory motors. Our unbalance vibratory motor are used in vibrating feeders, paper jogger, vibrating table, vibrating conveyors, screening, discharging, concrete hoppers and many more applications.

Being a leader in the vibratory motor manufacturing Jaykrishna Magnetics Pvt. Ltd. manufactures motors are robust in construction, more stable, for longer life with our innovative design.



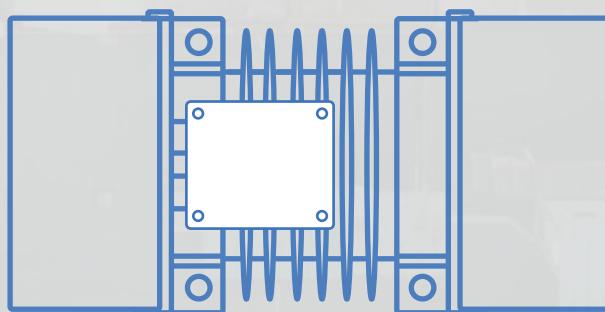
## WORKING PRINCIPLE

Unbalance motors are asynchronous AC Motors with pairs of centrifugal weights fitted to the ends of the motor shafts. The size of the unbalance and with it the amplitude of the oscillation by the working unit can be adjusted by shifting the centrifugal weights when the motor is at a standstill.

A stable, rigid motor shaft and roller bearings with a long service life allow the unbalance motors to be operated continuously even under difficult operating conditions.

The unbalance motors are supplied in 2,4 and 6 Pole versions. This means the motor speed and therefore the oscillation frequency can be ideally selected to suit each particular application.

The unbalance motors are also available in a special version for mains voltages up to 690V and for a mains frequency ranging from 50 Hz to 60 Hz.



# 2 POLE MOTOR : FOOT MOUNTED

Model No.	Centrif. Force N		Working Moment kg/cm		Power kw		Current A max.		Suitable for Vibrating Max Weight of.
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	Kgs.
3000 rpm 230/415 Volts 50 Hz & 3600 rpm 260/460 Volts 60 Hz									Enclosure : IP-66
JA 60	660	670	1.35	0.82	0.08	0.09	0.16	0.18	50
JA 100	980	1080	2.01	1.52	0.1	0.11	0.19	0.18	55
JA 200	1870	1890	3.72	2.61	0.18	0.21	0.35	0.35	75
JA 300	3200	3230	6.19	4.46	0.27	0.28	0.52	0.45	175
JA 400	4000	4110	7.96	5.68	0.3	0.36	0.58	0.6	225
JA 500	5200	5340	10.27	7.38	0.5	0.58	0.96	0.97	300
JA 700	7500	7650	14.9	10.57	0.66	0.75	1.25	1.24	375
JA 800	7700	8000	15.68	11.06	0.75	0.9	1.45	1.5	500
JA 1200	9800	10130	20.26	14	0.95	1.15	1.85	1.95	750
JA 1300	13300	13650	27.58	18.86	1.3	1.38	2.44	2.25	850
JA 1600	15600	16080	31.26	22.2	1.57	1.6	2.94	2.61	960
JA 2000	19800	19970	36.78	27.6	2	2.1	3.75	3.42	1200
JA 2300	22500	23060	45.97	31.87	2.4	2.45	4.44	3.94	1350
JA 3200	32520	33750	68.1	43.89	2.9	2.92	5.3	4.6	1900
JA 4000	40000	40500	79.4	55.99	2.9	2.92	5.3	4.6	2150
JA 5000	50000	50500	103.24	69.76	4	4.1	7.2	6.28	2300
JA 6500	65000	65550	129.55	90.54	5.5	5.52	9.5	8	2750
JA 9000	90250	93750	179.59	129.55	10	10.3	14	18	3000
									Enclosure : IP-55
JA 1	900	910	1.85	1.68	0.13	0.14	0.4	0.5	75
JA 3	3000	3030	6	5.4	0.23	0.25	0.5	0.6	225
JA 4	3900	3940	8.1	7.4	0.37	0.4	0.6	0.7	270
JA 5	4800	4850	10.56	9.6	0.55	0.59	1	1.2	300
JA 6	6000	6060	12.5	11.4	0.75	0.8	1.5	1.8	360
JA 10	10000	10100	21	19.1	1	1.07	2	2.4	615
JA 16	16000	10160	32.5	29.6	1.4	1.5	2.5	2.8	960
JA 20	20000	20200	42.3	38.6	2	2.15	3.75	4	1200
JA 30	30000	30300	61	55.6	2.9	3.1	5.5	6	1750
JA 50	50000	50500	100	91.	6.1	6.5	7.5	8.5	2500

Note : The design and dimensions are subject to alteration without prior notice due to continuous development.

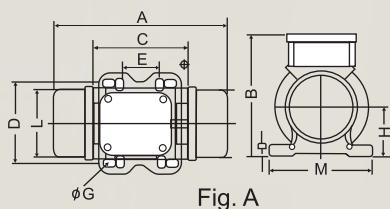


Fig. A

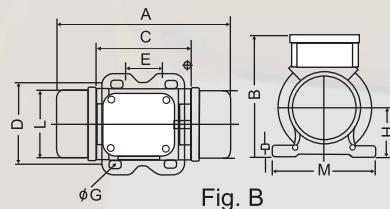


Fig. B

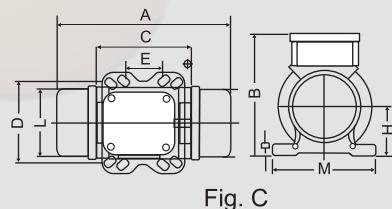


Fig. C

# 2 POLE MOTOR : FOOT MOUNTED

Model No.	Fig.									No. of Holes	Weight kgs.			
		E	D	F	C	M	L	H	A	B	G		50 Hz	60 Hz
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm			
3000 rpm 230/415 Volts 50 Hz & 3600 rpm 260/460 Volts 60 Hz												Enclosure : IP-66		
JA 60	A	*	*	12	121	130	86	48	211	136	*	4	4.2	4.2
JA 100	A	*	*	12	121	130	86	48	211	136	*	4	4.6	4.6
JA 200	B	62-74	106	14	123	130	112	64	217	158	9	4	7	7
JA 300	C	**	**	14	165	155	132	80	259	175	**	4	9.8	9.8
JA 400	C	**	**	14	165	155	132	80	259	175	**	4	10.3	10.3
JA 500	D	105	140	22	178	168	158	92	338	196	13	4	15.8	15.8
JA 700	D	105	140	22	178	168	158	92	338	196	13	4	16.5	16.5
JA 800	D	120	170	22	205	209	170	94	311	210	17	4	20.6	20.6
JA 1200	D	120	170	22	205	209	170	94	397	210	17	4	21.6	21.6
JA 1300	D	120	170	22	205	209	170	94	397	210	17	4	22	22
JA 1600	D	140	190	30	220	228	221	120	448	247	17	4	51.6	51.2
JA 2000	D	140	190	30	220	228	221	120	448	247	17	4	52.8	52
JA 2300	D	140	190	30	220	228	221	120	448	247	17	4	53.6	51.6
JA 3200	D	155	255	35	273	302	264	147	538	318	25	4	103	101
JA 4000	D	155	255	35	273	302	264	147	538	318	25	4	107	104
JA 5000	D	155	255	35	273	302	264	147	538	318	25	4	111	106
JA 6500	D	200	320	50	325	385	378	200	605	410	28	4	228	224.5
JA 9000	D	200	320	50	325	385	378	200	605	410	28	4	240	234
		Enclosure : IP-55												
JA 1	D	67	100	30	98	130	120	62	232	147	9	4	7	7
JA 3	D	115	135	25	142	162	145	80	320	200	9	4	17	17
JA 4	D	115	135	25	142	162	145	80	320	200	11	4	20	20
JA 5	D	120	180	40	165	210	172	95	350	230	14	4	29	29
JA 6	D	120	180	40	165	210	172	95	374	230	14	4	30	30
JA 10	D	125	230	58	175	260	218	115	444	266	18	4	50	50
JA 16	D	125	230	58	175	260	218	115	494	266	18	4	60	60
JA 20	D	165	260	60	230	330	258	135	550	300	27	4	85	85
JA 30	E	140	290	60	345	355	310	160	725	338	27	6	140	140
JA 50	E	175	400	70	420	470	350	185	820	400	33	6	280	280

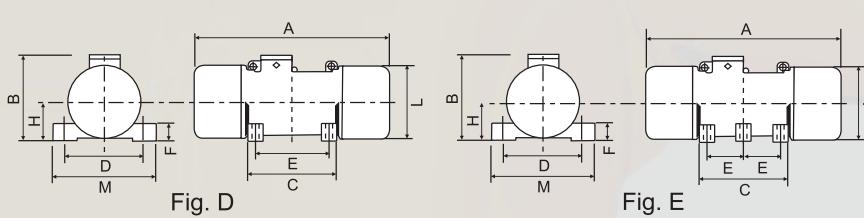


Fig. A

	E	D	ØG
*	mm	mm	mm
62-74	106	9	
33	83-102	7	

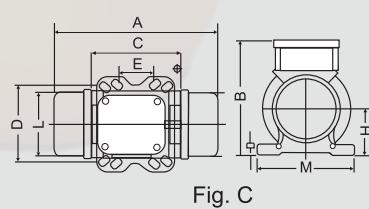
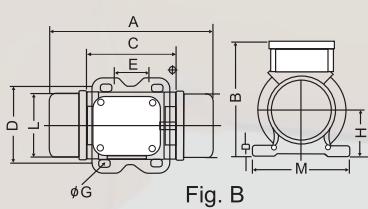
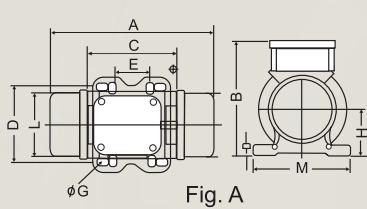
Fig. C

	E	D	ØG
*	mm	mm	mm
80	110	11	
90	125	13	
124	110	11	
135	115	11	

# 4 POLE MOTOR : FOOT MOUNTED

Model No.	Centrif. Force N		Working Moment kg/cm		Power kw		Current A max.		Suitable for Vibrating Max Weight of. Kgs.
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
1440 rpm 230/415 Volts 50 Hz & 1800 rpm 260/460 Volts 60 Hz								<b>Enclosure : IP-66</b>	
JB 40	270	360	2.15	1.99	0.04	0.05	0.31	0.31	50
JB 90	750	760	5.97	4.2	0.09	0.1	0.26	0.25	90
JB 200	1940	1960	15.44	10.83	0.16	0.17	0.49	0.5	130
JB 400	4200	4230	33.43	23.38	0.3	0.35	0.84	0.86	175
JB 500	5040	5080	40.12	28.08	0.35	0.4	1.16	1.09	225
JB 700	7140	7120	56.83	39.36	0.62	0.73	1.32	1.41	325
JB 1100	11140	11220	88.67	62.02	0.65	0.78	1.5	1.7	425
JB 1400	13640	13880	108.57	78.72	0.9	1.1	1.71	1.78	650
JB 1700	17250	16640	137.31	91.98	1.15	1.3	2.16	2.09	800
JB 2400	23580	24850	187.69	137.36	1.6	1.9	3	3.2	1000
JB 2500	25570	25570	203.53	135.65	1.8	2	3.4	3.4	1250
JB 3000	31240	30700	248.66	169.75	1.9	2.3	3.7	3.8	1500
JB 3800	38530	37040	306.69	204.74	2.2	2.6	4.12	4.15	1800
JB 4300	43120	43590	343.22	240.95	2.5	3	5.7	5.8	2000
JB 5500	54950	54950	437.39	303.74	3.6	3.45	6.5	6.6	2750
JB 7200	72460	71880	576.76	397.32	5	6	9.6	9.5	3250
JB 9000	90200	90230	717.97	498.76	7.5	8.5	12	12	3500
JB 10000	100520	106430	800.1	588.3	7.8	9.4	13	13	4200
								<b>Enclosure : IP-55</b>	
JB 1	1000	1010	15.4	14	0.16	0.17	0.5	0.6	70
JB 2	2000	2020	22.5	20.5	0.19	0.2	0.6	0.7	90
JB 3	3000	3030	29.3	26.7	0.23	0.24	0.7	0.8	130
JB 4	4000	4040	34.5	31.4	0.37	0.4	1	1.1	170
JB 6	6000	6060	51.5	47	0.51	0.55	1.2	1.3	275
JB 8	8000	8080	63.35	57.8	0.75	0.8	1.4	1.5	350
JB 10	10000	10100	77.5	70.7	0.83	0.89	1.6	1.8	415
JB 16	16000	10160	130	118.6	1.1	1.2	2	2.3	730
JB 25	25000	25250	209	190.7	1.5	1.6	2.5	2.8	1190
JB 37	37000	37370	300	273.8	2.45	2.6	5	5.7	1700
JB 46	46000	46460	370	337.7	3	3.2	5.5	6.5	2200
JB 67	67000	67670	547	499	5.1	5.5	6	7.2	3175
JB 104	104000	105040	843	769	7.5	8	7.5	8.6	4500

Note : The design and dimensions are subject to alteration without prior notice due to continuous development.



# 4 POLE MOTOR : FOOT MOUNTED

Model No.	Fig.										No. of Holes	Weight kgs.		
		E mm	D mm	F mm	C mm	M mm	L mm	H mm	A mm	B mm		50 Hz	60 Hz	
1440 rpm 230/415 Volts 50 Hz & 1800 rpm 260/460 Volts 60 Hz												<b>Enclosure : IP-66</b>		
JB 40	A	*	*	12	121	130	86	48	223	140	*	4	5.2	5.2
JB 90	B	62-74	106	14	123	130	112	64	245	160	9	4	7.6	7.6
JB 200	C	**	**	14	165	155	132	80	295	185	**	4	11.7	11.7
JB 400	D	105	140	22	178	168	158	92	340	215	13	4	21.6	21.6
JB 500	D	105	140	22	178	168	158	92	340	215	13	4	22.9	22.9
JB 700	D	120	170	22	205	209	170	94	395	210	17	4	29	29
JB 1100	D	120	170	22	205	209	170	94	450	210	17	4	33.8	33.8
JB 1400	D	140	190	30	220	228	221	120	465	265	17	4	64	604
JB 1700	D	140	190	30	220	228	221	120	465	265	17	4	67.7	65.3
JB 2400	D	140	190	30	220	228	221	120	520	265	17	4	73.4	67.4
JB 2500	D	155	225	40	250	272	235	140	535	305	22	4	95	89
JB 3000	D	155	225	40	250	272	235	140	580	305	22	4	110	99
JB 3800	D	155	255	35	273	302	264	147	610	315	24	4	143	131
JB 4300	D	155	255	35	273	302	264	147	620	315	24	4	158	147
JB 5500	D	180	280	37	304	332	310	167	640	360	26	4	206	204
JB 7200	D	200	320	49	325	385	378	200	625	395	28	4	298	291
JB 9000	D	200	320	49	325	385	378	200	705	395	28	4	303	293
JB 10000	E	125	380	44	367	452	378	204	760	445	38	6	331	317
												<b>Enclosure : IP-55</b>		
JB 1	D	67	100	30	98	130	120	62	232	147	9	4	7.1	7.1
JB 3	D	115	135	25	142	162	145	80	320	200	11	4	18	18
JB 4	D	120	180	40	165	210	172	95	378	230	14	4	28	28
JB 5	D	120	180	40	165	210	172	95	378	230	14	4	30	30
JB 6	D	120	180	40	165	210	172	95	428	230	14	4	35	35
JB 8	D	120	180	40	165	210	172	95	453	245	14	4	45	45
JB 10	D	125	230	58	175	260	218	115	444	266	18	4	55	55
JB 16	D	125	230	58	175	260	218	115	494	266	18	4	70	70
JB 25	D	165	260	60	230	330	258	135	550	300	27	4	100	100
JB 37	E	140	290	60	345	355	310	160	725	338	27	6	155	155
JB 46	E	140	290	60	345	355	310	160	725	338	27	6	170	170
JB 67	E	175	400	70	420	470	350	185	820	400	33	6	285	285
JB 104	E	175	400	70	420	470	350	185	820	400	33	6	325	325

Note : The design and dimensions are subject to alteration without prior notice due to continuous development.

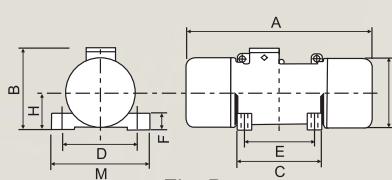


Fig. D

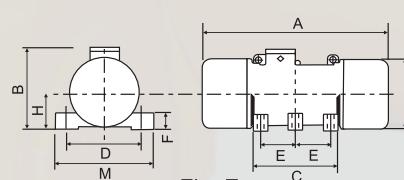


Fig. E

*	E	D	ØG
	mm	mm	mm
62-74	106	9	
33	83-102	7	

Fig. A

Fig. C

**	E	D	ØG
	mm	mm	mm
80	110	11	
90	125	13	
124	110	11	
135	115	11	

# 6 POLE MOTOR : FOOT MOUNTED

Model No.	Centrif. Force N		Working Moment kg/cm		Power kw		Current A max.		Suitable for Vibrating Max Weight of. Kgs.
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
900 rpm 230/415 Volts 50 Hz & 1200 rpm 260/460 Volts 60 Hz								<b>Enclosure : IP-66</b>	
JC 50	530	530	9.49	6.59	0.12	0.14	0.4	0.4	50
JC 100	1050	1060	18.81	13.18	0.12	0.14	0.4	0.4	60
JC 200	1870	1880	33.49	23.38	0.18	0.21	0.53	0.51	75
JC 300	2670	2690	47.82	33.46	0.35	0.38	0.67	0.64	100
JC 500	4750	4790	91.88	64.32	0.35	0.4	1.2	1.15	250
JC 600	16730	7300	132.4	120.8	0.35	0.38	0.75	0.68	275
JC 800	7670	8730	137.37	108.58	0.68	0.76	1.29	1.26	350
JC 1100	10480	11040	187.37	137.31	0.75	0.8	1.42	1.32	400
JC 1500	15900	15800	284.76	196.51	1.1	1.3	2.1	2	600
JC 1600	16730	16360	299.6	203.47	1.1	1.3	2.83	3.22	650
JC 2100	20830	20000	373.05	248.74	1.5	1.8	3	3	825
JC 2600	26100	24650	467.44	306.7	1.96	2.1	3.63	3.38	1000
JC 3000	30170	30500	540.33	379.71	2.2	2.4	4.5	4.3	1250
JC 3800	38000	35175	680.38	437.41	2.5	3	4.67	4.88	1600
JC 4700	46800	46970	838.34	584.17	3.2	3.9	6.5	6	2000
JC 5200	51900	52630	929.86	654.57	3.8	4	6.92	6.36	2300
JC 6500	65000	66250	1165.2	823.96	4.3	5	7.76	7.81	2700
JC 8000	80200	74760	1436	929.8	7.1	7.5	12.6	11.6	3100
JC 9000	89350	93690	1600.4	1165.23	7.5	8.3	13.2	12.6	4000
JC 10000	99850	99700	1788.4	1239.98	7.6	8	13.5	12.7	4750
JC 13000	130000	13250	2329.8	1647.4	10	10	17	16	5500
								<b>Enclosure : IP-55</b>	
JC 2	2000	2020	33.5	33.5	0.19	0.2	0.5	0.6	75
JC 3	3000	3030	48.35	44.1	0.4	0.43	1.2	1.3	100
JC 4	4000	4040	77.5	70.7	0.65	0.7	1.3	1.4	150
JC 6	6000	6060	132.4	120.8	0.75	0.8	1.4	1.55	275
JC 10	10000	10100	185	169	1	1.07	2	2.3	375
JC 11	11000	11110	209	190	1	1.07	2.5	2.8	400
JC 17	17000	17170	314	286	1.24	1.3	2.8	3.2	565
JC 23	23000	23230	418	381	1.67	1.8	3	3.7	930
JC 35	35000	35350	631	576	2.3	2.4	4	4.8	1440
JC 70	70000	70700	1278	1166	3.85	4.1	6	7	2950
JC 90	90000	90900	1640	1497	5.5	5.9	7.5	8.7	4000
JC 122	122000	123220	2250	2053	8.5	9.1	8	9.6	5500

Note : The design and dimensions are subject to alteration without prior notice due to continuous development.

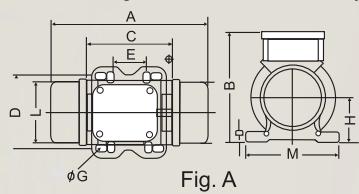


Fig. A

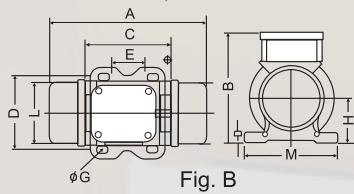


Fig. B

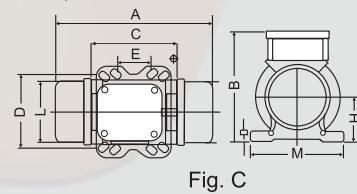


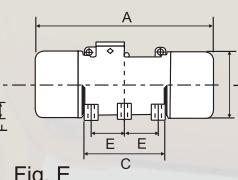
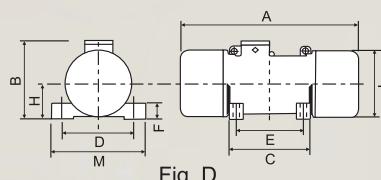
Fig. C

# 6 POLE MOTOR : FOOT MOUNTED

Model No.	Fig.										No. of Holes	Weight kgs.			
		E mm	D mm	F mm	C mm	M mm	L mm	H mm	A mm	B mm		50 Hz	60 Hz		
900 rpm 230/415 Volts 50 Hz & 1200 rpm 260/460 Volts 60 Hz															
<b>Enclosure : IP-66</b>															
JC 50	C	**	**	14	165	155	132	80	295	185	**	4	10.8	10.8	
JC 100	C	**	**	14	165	155	132	80	315	185	**	4	12.6	12.6	
JC 200	D	105	140	22	178	168	158	92	340	215	13	4	21.4	21.4	
JC 300	D	120	170	22	205	209	170	94	395	210	17	4	29	29	
JC 500	D	120	170	22	205	209	170	94	450	210	17	4	33.7	33.7	
JC 600	D	120	170	50	194	205	185	105	428	235	17	4	40.3	40.3	
JC 800	D	140	190	30	220	228	221	120	465	265	17	4	66.1	63.7	
JC 1100	D	140	190	30	220	228	221	120	520	265	17	4	73	66.1	
JC 1500	D	140	190	30	220	228	221	120	575	265	17	4	85.6	78.5	
JC 1600	D	155	225	40	250	272	235	140	580	305	22	4	110.7	94	
JC 2100	D	155	225	40	250	272	235	140	625	305	22	4	120	105	
JC 2600	D	155	255	35	273	302	264	147	720	315	24	4	151	134	
JC 3000	D	155	255	35	273	302	264	147	720	315	24	4	174	157	
JC 3800	D	180	280	37	304	332	310	167	725	360	26	4	217	207	
JC 4700	D	180	280	37	304	332	310	167	770	360	26	4	233	215	
JC 5200	D	200	320	49	325	385	378	200	705	395	28	4	299	284	
JC 6500	D	200	320	49	325	385	378	200	705	395	28	4	331	307	
JC 8000	D	200	320	49	325	385	378	200	810	395	28	4	344	309	
JC 9000	D	200	320	49	325	385	378	200	810	395	28	4	357	327	
JC 10000	E	125	380	44	367	452	378	204	855	445	38	6	386	360	
JC 13000	E	125	380	44	367	452	378	204	955	445	38	6	423	375	
<b>Enclosure : IP-55</b>															
JC 2	D	115	135	25	142	162	145	80	320	200	11	4	20	20	
JC 3	D	120	180	40	165	210	172	95	378	230	14	4	30	30	
JC 4	D	120	180	40	165	210	172	95	428	230	14	4	35	35	
JC 6	D	120	180	40	165	210	172	95	453	245	14	4	45	45	
JC 10	D	125	230	58	175	260	218	115	494	266	18	4	73	73	
JC 11	D	165	260	60	230	330	258	135	575	300	27	4	95	95	
JC 17	D	165	260	60	230	330	258	135	600	300	27	4	110	110	
JC 23	D	165	260	60	230	330	258	135	672	300	27	4	132	132	
JC 35	E	140	290	60	345	355	310	160	730	338	27	6	180	180	
JC 70	E	140	290	95	395	355	350	195	870	372	27	6	225	225	
JC 90	E	175	400	70	420	470	350	185	900	400	33	6	360	360	
JC 122	E	175	400	70	420	470	415	210	905	425	33	6	425	425	

Fig. A

Fig. C



*	E mm	D mm	ØG mm
	62-74	106	9
	33	83-102	7

**	E mm	D mm	ØG mm
	80	110	11
	90	125	13
	124	110	11
	135	115	11

# VIBRATORY MOTORS APPLICATIONS:

Our unbalance vibratory motors are used in a wide range of applications where vibration force is required. It is renowned in the market because of its noiseless performance compared to electromagnetic and pneumatic vibrations.

Mostly used in processing plants like chemical, fertilizers, petrochemical, pharmaceutical, plastic, mining, food processing, packing industries, etc.



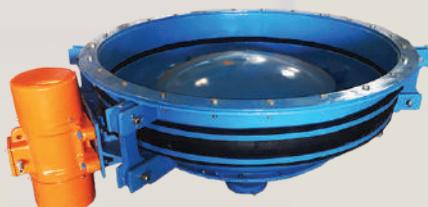
Vibratory Feeder



Vibro Screening Machine



Gyro Screen



Bin Activator



Tubular Vibratory Feeder



Vibratory Furnace Charger



Vibrating Table

## GENERAL APPLICATION:

- Silos
- Hoppers
- Vibrating Feeders
- Screens
- Piping
- Threshers
- Dump Trucks

JAY KRISHNA

®

MAGNETIC SOLUTIONS



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