CLEVELAND VIBRATOR COMPANY
The Exclusive USA Distributor of Uras Techno Vibrators

clevelandvibrator.com
4544 Hinckley Industrial Pkwy.
Cleveland, OH 44109

216-241-7157
800-221-3298
Fax 216-241-3480

PRODUCT DATA SHEET

Rotary Electric Vibrators

Redesigned with All-Weather Polyurethane Coating Finish

URAS TECHNO

Even the harshest conditions won't bother Uras Techno's rotary electric vibrators. Designed for continuous duty and protection from environmental elements, they have a reputation for ensuring maximum up-time and material flow — even with high load applications.

They're also built with a high-torque motor and shorter shaft to help ensure minimal slippage and less shaft deflection. That means they run true to their calculated force and maintain consistency for a longer life. Used in tandem with counter-rotating weights, they provide pure linear force to drive feeder, table and screener equipment for continuous duty production processes.

BENEFITS INCLUDE

- 3 Year Warranty
- High IP ratings and continuous duty rating for long service life in harsh conditions
- Highly flexible with adjustable force outputs (most from 0%–100%), frequency ranges and amplitudes
- More versatile and lower maintenance than mechanical shaker drives
- Low noise level — run at an average 58 dBa at four feet
- Most units have permanently greased bearings to minimize maintenance
- Grade 5 mounting fasteners and pre-installed anti-vibrational lead cable included to save you time and money
- All models are inverter duty rated

TÜV MANAGEMENT SERVICE ISO 9001

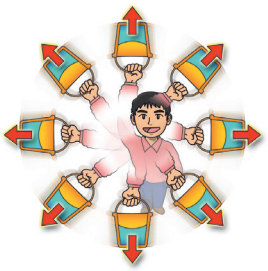
Certified under ISO 9001, the international standard for quality systems

CSA standards and CE marking available

How Our Vibrators Work

How many of us remember when we were children, swinging a bucket of water around but not totally succeeding in the experiment and getting ourselves wet in the process?

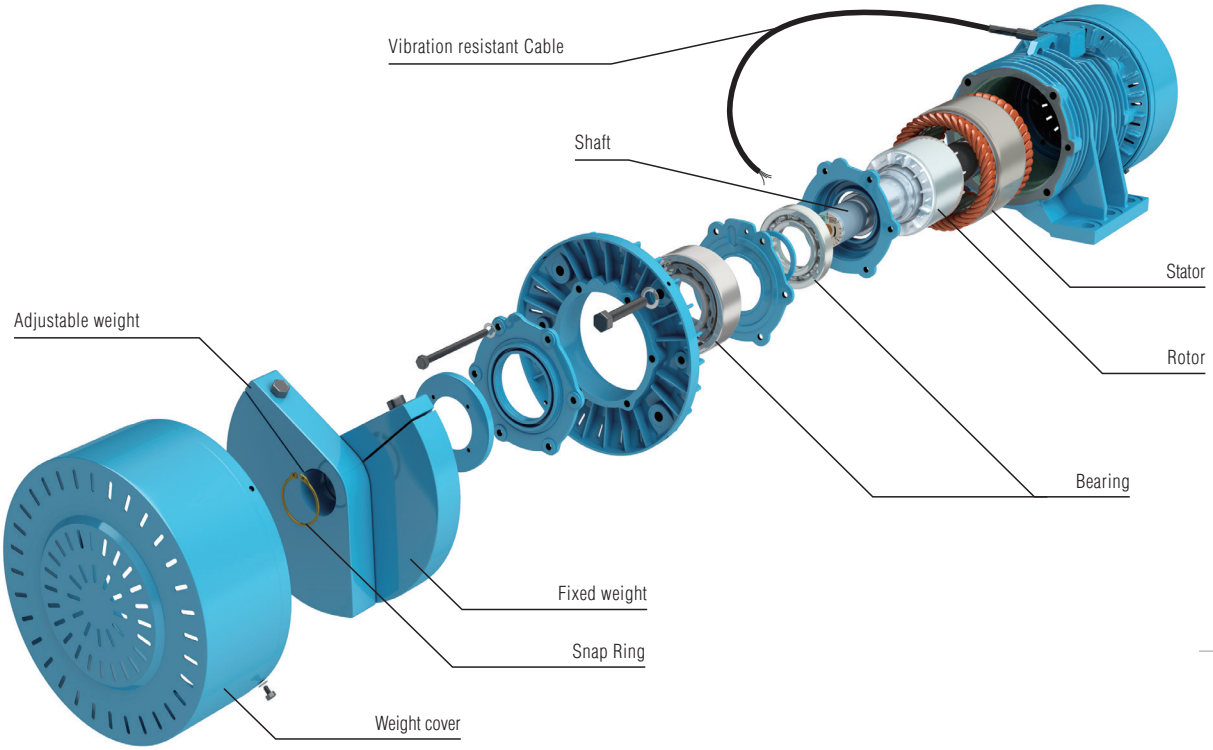
If we managed not to get wet, it was thanks to the centrifugal force that was exerted when we swung the bucket. Uras Vibrators work in the same way. Unbalanced weights are attached to both ends of the shaft of an induction motor (which is a regular motor) and rotated in our vibrators. This generates a great deal of centrifugal force, which is used as the vibrating force.



Uras Vibrator Models and Manufacturing Range

Model		No.of Poles	No. of Models	Vibrating Force(lbf)	Vibrating Force(kN)	Voltage Class (V)	Synchronous Revolutions (r/min)	Output (HP)	Output (kW)
Standard model	KEE	2	10	110 to 8800	0.5 to 40	200 to 690	3000/3600	0.053 to 4.02	0.04 to 3
		4	13	330 to 30800	1.5 to 140		1500/1800	0.087 to 10.1	0.065 to 7.5
		6	15	660 to 46200	3 to 210		1000/1200	0.268 to 17.4	0.2 to 13
		8	14	1100 to 46200	5 to 210		750/900	0.536 to 16.1	0.4 to 12
Single-phase model	SEE	2	6	22 to 1320	0.1 to 6	100 to 240	3000/3600	0.020 to 0.047	0.015 to 0.35

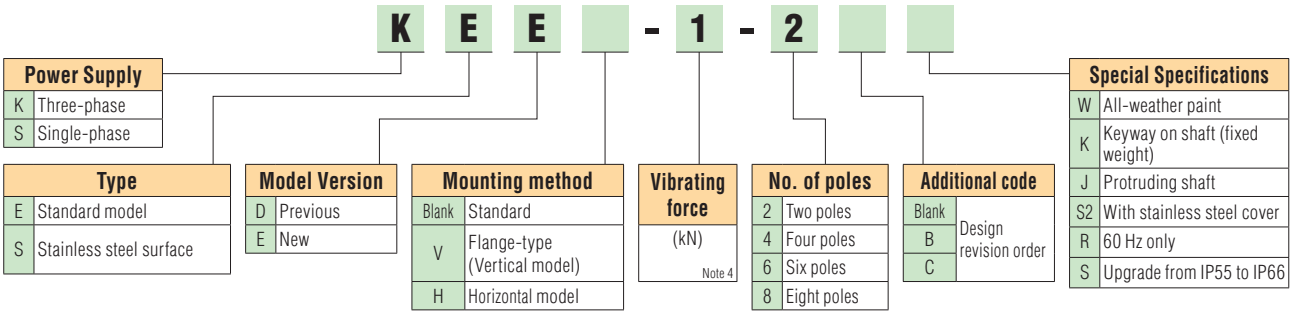
Construction



Uras Vibrators feature an extremely simple mechanism whereby vibrating force is created by rotating unbalanced weights attached to both ends of an induction motor shaft. Drawing on research and a proven track record that spans a half-century since our vibrators were originally developed, we have perfected vibrators with tough vibration resistant structures and an extremely high level of reliability.

These vibrators, usable under all weather conditions, for instance, have been designed to prevent the unbalanced weights from dropping down during adjustment so that they can be handled with complete safety. At the same time they have been designed to extend the service life of their bearings.

Model Designation



Notes: 1. This table shows how to read the model numbers of standard Uras Vibrators.
2. Note that it is not possible to manufacture vibrators in every possible combination.
3. If a non-standard Uras Vibrator is required, contact the The Cleveland Vibrator Company at (800) 221-3298
4. For details on the vibrating force, refer to the pages concerned.
5. Models prior to D (that is, models A, B, and C) are also previous models.
6. Provide some means to ensure protection against surges for 400 V-class inverters.
Means of protection: (1) Enhance the insulation of the Uras Vibrator (class F insulation).
(2) Use an inverter equipped with a surge protection function (such as the G7 series / V1000 made by Yaskawa Electric Corporation).

Standard Specifications of KEE and SEE Series

Specification		Three-phase				Single-phase
		2 poles	4 poles	6 poles	8 poles	2 poles (capacitor start)
Power Supply		230/460V 60Hz, 380V 50Hz, 415V 50Hz, 525V 50Hz, 575V 60Hz				240V 50Hz 100V 50/60Hz 110V 60Hz
Time Rating		Continuous rating				
Thermal Class		Class E insulation				
External Cover Structure (Vibrating Force kN)	Totally Enclosed	0.5 to 6	1.5 to 34	3 to 60	5 to 54	Totally enclosed
	Totally enclosed, Fan-cooled	10 to 40	52 to 140	80 to 210	85 to 210	
Protection Structure	Totally Enclosed	IP66				Totally enclosed IP66 (JIS C 0920) (IP42 for SEE-0.1-2)
	Totally Enclosed, Fan-cooled	IP55				
Output (kW)		0.040 to 3	0.065 to 7.5	0.2 to 13	00.4 to 12	0.015 to 0.35
Synchronous Revolutions	Power Supply Frequency (Hz)	50/60				
	(r/min)	3000/3600	1500/1800	1000/1200	750/900	3000/3600
Vibrating Force (kN)		0.5 to 40	1.5 to 140	3 to 210	5 to 210	0.1 to 6
Vibrating Force (lbf)		110 to 8800	330 to 30800	660 to 46200	1100 to 46200	22 to 1320
Bearing (Vibrating Force kN)	Sealed ZZ Bearings	0.5 to 10kN	1.5 to 12kN	3 to 18kN	5 to 20kN	Sealed ZZ bearings 0.1 to 3.5 kN
	NJ roller Bearings	16 to 40kN	17 to 140kN	24 to 210kN	32 to 210kN	
Enclosed Cable		2PNCT (4-core) x 2 m cable, Wire sizes: 0.75 mm², 1.25 mm², 2 mm², 5.5 mm², 8 mm², 14 mm² Note: The KEE-0.5-2CW has a 1 m cable, and the SEE-0.5-2CW has a 2-core 1 m cable.				
Installation Method		Frame leg installation (at any installation angle).				
Coating Color		Munsell 2.5PB5/2				
Installation and Operating Environment		Can be used indoors and outdoors. Ambient (including installation base) temperature: -15°C to +40°C Altitude: 1,000 m max. Relative humidity: 85% max. with no condensation				

Tropical proofing is provided as a standard feature.
The KEE Uras Vibrator is certified under the CSA standards or CE marking (optional).

CSA standards supported

(Certified under CSA at a single voltage of 575 V or less and 60Hz.)

KEE Standard Uras Vibrators, Two Poles

Specifications (Imperial)

	Model	Vibrating Force	Output	Drawing No.	Dimensions(inch)														Mass (lbs)	
		(lbf)	(HP)		D	E	F	G	H	I	J	K	L	M	N	W	ød	Bolt Dia.	50/60	60
Greased and Sealed	KEE-0.5-2CW	110	0.0536	1	4.33	4.72	1.57	0.39	2.48	5.91	1.3	–	8.07	5.71	2.76	1.57	0.39	$\frac{5}{16}$-18	14.3	14.3
	KEE-1-2CW	220	0.101	1	4.33	4.72	1.57	0.39	2.48	5.91	1.3	–	8.07	5.71	2.76	1.57	0.39	$\frac{5}{16}$-18	16.5	16.5
	KEE-2-2CW	440	0.201	1	4.33	4.72	1.57	0.39	2.48	5.91	1.3	–	9.06	5.71	2.76	1.97	0.39	$\frac{5}{16}$-18	18.7	18.7
	KEE-3.5-2BW	770	0.335	1	4.33	5.91	3.54	0.47	2.8	6.89	1.57	1.77	10.24	7.09	4.72	2.17	0.55	$\frac{1}{2}$-12	30.9	28.7
	KEE-6-2BW	1320	0.536	1	4.92	7.48	4.33	0.51	3.31	7.68	1.97	2.17	11.81	9.06	5.91	2.36	0.71	$\frac{5}{8}$-11	48.5	46.3
	KEE-10-2BW	2200	1.01	2	6.1	8.66	4.72	0.63	3.62	8.27	2.36	2.56	13.78	10.63	6.69	1.97	0.87	$\frac{3}{4}$-10	77.2	75
Periodic Greasing	KEE-16-2W	3520	1.61	2	6.69	9.45	5.51	0.79	5.12	10.24	2.76	2.95	16.73	11.81	7.87	2.56	1.02	$\frac{7}{8}$-9	115	110
	KEE-23-2W	5060	2.28	2	7.48	10.24	5.91	0.87	5.59	11.02	2.76	3.15	17.52	12.6	8.27	2.36	1.02	$\frac{7}{8}$-9	141	137
	KEE-30-2W	6600	2.95	2	8.86	12.2	6.69	0.98	6.22	12.6	3.35	3.74	19.69	14.96	9.45	2.76	1.3	$1\frac{1}{8}$-7	203	196
	KEE-40-2W	8800	4.02	2	8.86	13.78	8.66	1.18	7.28	14.17	3.94	4.33	22.05	16.93	11.81	2.76	1.54	$1\frac{3}{8}$-6	298	291

–: Not available.

Specifications (Metric)

	Model	Vibrating Force	Output	Drawing No.	Dimensions(mm)														Mass (kg)	
		(kN)	(kW)		D	E	F	G	H	I	J	K	L	M	N	W	ød	Bolt Dia.	50/60	60
Greased and Sealed	KEE-0.5-2CW	0.5	40W	1	110	120	40	10	63	150	33	–	205	145	70	40	10	M8	6.5	6.5
	KEE-1-2CW	1	75W	1	110	120	40	10	63	150	33	–	205	145	70	40	10	M8	7.5	7.5
	KEE-2-2CW	2	0.15	1	110	120	40	10	63	150	33	–	230	145	70	50	10	M8	8.5	8.5
	KEE-3.5-2BW	3.5	0.25	1	110	150	90	12	71	175	40	45	260	180	120	55	14	M12	14	13
	KEE-6-2BW	6	0.4	1	125	190	110	13	84	195	50	55	300	230	150	60	18	M16	22	21
	KEE-10-2BW	10	0.75	2	155	220	120	16	92	210	60	65	350	270	170	50	22	M20	35	34
Periodic Greasing	KEE-16-2W	16	1.2	2	170	240	140	20	130	260	70	75	425	300	200	65	26	M24	52	50
	KEE-23-2W	23	1.7	2	190	260	150	22	142	280	70	80	445	320	210	60	26	M24	64	62
	KEE-30-2W	30	2.2	2	225	310	170	25	158	320	85	95	500	380	240	70	33	M30	92	89
	KEE-40-2W	40	3	2	225	350	220	30	185	360	100	110	560	430	300	70	39	M36	135	132

Vibrator Speed

Power supply frequency of 50 Hz
...50 Hz (3000 r/min)
Power supply frequency of 60 Hz
...60 Hz (3600 r/min)

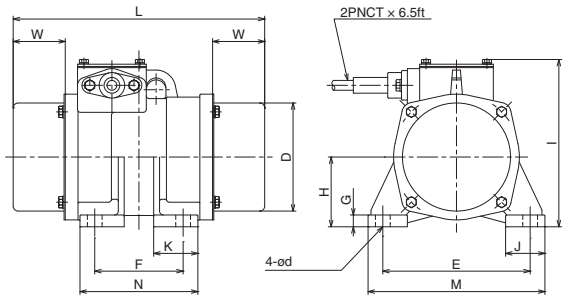
KEE-6-2BW

	Model	Full-load Current (A)						Drawing No.	Vents	Protection Structure	Min. Cable Bending Radius (inch)	Stainless Steel Cover*2 (Optional)
		230/460V 60Hz		380V 50Hz	415V 50Hz	525V 50Hz	575V 60Hz					
Greased and Sealed	KEE-0.5-2CW	0.24	0.15	0.16	0.17	+	+	1	Without	IP66	4	√
	KEE-1-2CW	0.41	0.25	0.28	0.30	0.20	+	1	Without	IP66	4	√
	KEE-2-2CW	0.65	0.39	0.41	0.4	+	+	1	Without	IP66	4	√
	KEE-3.5-2BW	1.1	0.64	0.66	0.67	0.5	0.47	1	Without	IP66	4	√
	KEE-6-2BW	1.6	0.84	0.88	0.83	0.64	0.68	1	Without	IP66	4	√
	KEE-10-2BW	2.7	1.4	1.6	1.5	1.2	1.1	2	With	IP55	4	√
Periodic Greasing	KEE-16-2W	4	2	2.5	2.3	1.8	+	2	With	IP55	4	—
	KEE-23-2W	5.7	2.8	3.5	3.2	2.6	+	2	With	IP55	4	—
	KEE-30-2W	7.2	3.7	4.3	4.0	+	+	2	With	IP55	6	—
	KEE-40-2W	9.8	4.9	5.8	6.7	+	+	2	With	IP55	6	—

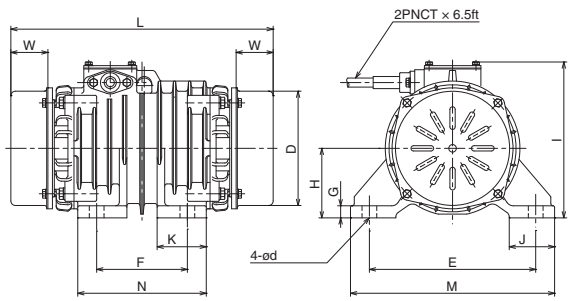
√: Available. +: Custom Order. —: Not available.

Outline Drawings

Drawing No. 1



Drawing No. 2



CSA standards supported

(Certified under CSA at a single voltage of 575 V or less and 60Hz.)

KEE Standard Uras Vibrators, Four Poles

Specifications (Imperial)

	Model	Vibrating Force	Output	Drawing No.	Dimensions(inch)														Mass (lbs)	
		(lbf)	(HP)		D	E	F	G	H	I	J	K	L	M	N	W	ød	Bolt Dia.	50/60 Hz	60 Hz
Greased and Sealed	KEE-1.5-4BW	330	0.087	1	4.33	4.72	1.57	0.39	2.48	5.91	1.3	–	10.04	5.71	2.76	2.56	0.39	$\frac{5}{16}$-18	24.3	22
	KEE-3-4BW	660	0.174	1	6.1	5.91	3.15	0.39	3.31	7.09	1.38	1.57	10.43	7.09	4.33	2.17	0.47	$\frac{3}{8}$-16	37.5	33.1
	KEE-6-4BW	1320	0.335	1	6.69	6.3	3.94	0.47	3.62	7.68	1.57	1.77	12.4	7.48	5.12	2.95	0.55	$\frac{1}{2}$-12	52.9	46.3
	KEE-9-4BW	1980	0.536	3	7.48	7.09	4.33	0.51	4.02	8.27	1.97	2.17	13.39	8.66	5.91	2.95	0.71	$\frac{5}{8}$-11	75	66.1
	KEE-12-4BW	2640	0.805	3	8.86	8.66	5.51	0.63	4.72	9.45	2.36	2.56	14.17	10.63	7.48	2.56	0.87	$\frac{3}{4}$-10	101	88.2
Periodic Greasing	KEE-17-4W	3740	1.14	3	9.65	9.45	5.51	0.79	5.12	10.24	2.76	2.95	16.54	11.81	7.87	3.15	1.02	$\frac{7}{8}$-9	137	121
	KEE-24-4W	5280	1.48	3	10.43	10.24	5.91	0.87	5.59	11.02	2.76	3.15	18.9	12.6	8.27	3.74	1.02	$\frac{7}{8}$-9	185	168
	KEE-34-4W	7480	2.01	3	11.61	12.2	6.69	0.98	6.22	12.6	3.35	3.74	20.67	14.96	9.45	3.74	1.3	$1\frac{1}{8}$-7	269	220
	KEE-52-4BW	11440	2.95	3	13.58	13.78	8.66	1.18	7.28	14.37	3.94	4.33	23.03	16.93	11.81	3.35	1.54	$1\frac{3}{8}$-6	397	368
	KEE-75-4BW	16500	4.96	4	15.55	14.96	4.92	1.3	8.27	16.34	4.13	–	24.8	18.11	12.99	3.94	1.54	$1\frac{3}{8}$-6×6	540	494
	KEE-84-4CW	18480	7.38	4	15.55	14.96	4.92	1.3	8.27	16.34	4.13	–	26.18	18.11	12.99	3.94	1.54	$1\frac{3}{8}$-6×6	595	562
	KEE-110-4W	24200	10.1	4	18.31	17.32	5.51	1.42	9.45	18.7	4.92	–	28.74	20.87	14.57	4.72	1.77	$1\frac{5}{8}$-5×6	871	838
	KEE-140-4W	30800	10.1	4	18.31	17.32	5.51	1.42	9.45	18.7	4.92	—	31.5	20.87	14.57	4.72	1.77	$1\frac{5}{8}$-5×6	940	—

–: Not available.

Specifications (Metric)

	Model	Vibrating Force	Output	Drawing No.	Dimensions(mm)														Mass (kg)	
		(kN)	(kW)		D	E	F	G	H	I	J	K	L	M	N	W	ød	Bolt Dia.	50/60 Hz	60 Hz
Greased and Sealed	KEE-1.5-4BW	1.5	65W	1	110	120	40	10	63	150	33	–	255	145	70	65	10	M8	11	10
	KEE-3-4BW	3	0.13	1	155	150	80	10	84	180	35	40	265	180	110	55	12	M10	17	15
	KEE-6-4BW	6	0.25	1	170	160	100	12	92	195	40	45	315	190	130	75	14	M12	24	21
	KEE-9-4BW	9	0.4	3	190	180	110	13	102	210	50	55	340	220	150	75	18	M16	34	30
	KEE-12-4BW	12	0.6	3	225	220	140	16	120	240	60	65	360	270	190	65	22	M20	46	40
Periodic Greasing	KEE-17-4W	17	0.85	3	245	240	140	20	130	260	70	75	420	300	200	80	26	M24	62	55
	KEE-24-4W	24	1.1	3	265	260	150	22	142	280	70	80	480	320	210	95	26	M24	84	76
	KEE-34-4W	34	1.5	3	295	310	170	25	158	320	85	95	525	380	240	95	33	M30	122	100
	KEE-52-4BW	52	2.2	3	345	350	220	30	185	365	100	110	585	430	300	85	39	M36	180	167
	KEE-75-4BW	75	3.7	4	395	380	125	33	210	415	105	–	630	460	330	100	39	M36x6	245	224
	KEE-84-4CW	84	5.5	4	395	380	125	33	210	415	105	–	665	460	330	100	39	M36x6	270	255
	KEE-110-4W	110	7.5	4	465	440	140	36	240	475	125	–	730	530	370	120	45	M42x6	395	380
	KEE-140-4W	140	7.5	4	465	440	140	36	240	475	125	–	800	530	370	120	45	M42x6	425	–

–: Not available.

Vibrator Speed

Power supply frequency of 50 Hz
...25 Hz (1500 r/min)
Power supply frequency of 60 Hz
...30 Hz (1800 r/min)

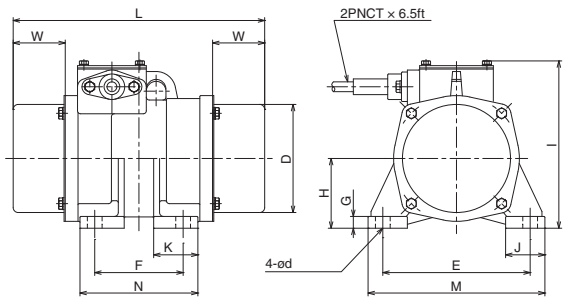
KEE-75-BW

	Model	Full-load Current (A)						Drawing No.	Vents	Protection Structure	Min.Cable Bending Radius (inch)	Snap Ring	Thrust Bearing	Stainless Steel Cover[*2] (Optional)
		230/460V 60Hz		380V 50Hz	415V 50Hz	525V 50Hz	575V 60Hz							
Greased and Sealed	KEE-1.5-4BW	0.50	0.33	0.3	0.32	0.23	–	1	Without	IP66	4	Without	Without	√
	KEE-3-4BW	0.80	0.52	0.53	0.58	0.37	0.34	1	Without	IP66	4	Without	Without	√
	KEE-6-4BW	1.2	0.78	0.78	0.81	0.64	0.56	1	Without	IP66	4	Without	Without	√
	KEE-9-4BW	1.7	0.99	1.1	1.1	0.81	–	3	Without	IP66	4	Without	Without	√
	KEE-12-4BW	2.3	1.3	1.5	1.4	1.0	0.9	3	Without	IP66	4	Without	Without	—
Periodic Greasing	KEE-17-4W	3.2	2.1	2.0	1.9	1.5	1.3	3	Without	IP66	4	Without	Without	—
	KEE-24-4W	3.9	2.2	2.5	2.4	1.8	1.6	3	Without	IP66	4	Without	Without	—
	KEE-34-4W	5.0	2.6	3.1	3.0	2.1	2.1	3	Without	IP66	6	With	Without	—
	KEE-52-4BW	7.5	3.8	4.6	4.2	3.6	3.0	3	With	IP66	6	With	Without	—
	KEE-75-4BW	12.3	6.2	7.5	6.9	5.3	4.9	4	With	IP66	8	With	Without	—
	KEE-84-4CW	18.2	9.4	11.0	10.2	7.8	7.0	4	With	IP66	8	With	Without	—
	KEE-110-4W	25	12.5	14.7	13.9	10.7	+	4	With	IP66	8	With	With	—
	KEE-140-4W	+	+	14.7	13.9	+	+	4	With	IP66	8	With	With	–

+: Custom Order. √: Available.
–: Not available.

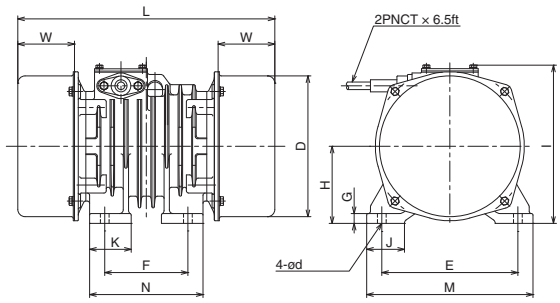
Outline Drawings

Drawing No. 1



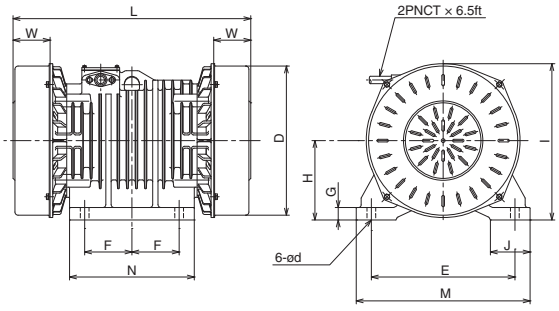
Rotary Electric Vibrator in use above a manual flow gate to rid the hopper of ratholed or hung up material.

Drawing No. 3



Note: The KEE-52-4BW model has vents.

Drawing No. 4



CSA standards supported

(Certified under CSA at a single voltage of 575 V or less and 60Hz.)

KEE Standard Uras Vibrators, Six Poles

Specifications (Imperial)

	Model	Vibrating Force	Output	Drawing No.	Dimensions(inch)														Mass (lbs)	
		(lbf)	(HP)		D	E	F	G	H	I	J	K	L 50/60	L 60	M	N	W	ød	Bolt Dia.	50/60 Hz	60 Hz
Greased and Sealed	KEE-3-6W	660	0.268	5	6.69	6.3	3.94	0.47	3.62	7.68	1.57	1.77	12.99	11.42	7.48	5.12	3.35	0.55	$\frac{1}{2}$-12	55.1	48.5
	KEE-5-6W	1100	0.469	5	7.48	7.09	4.33	0.51	4.02	8.27	1.97	2.17	14.37	12.99	8.66	5.91	3.54	0.71	$\frac{5}{8}$-11	79.4	70.5
	KEE-9-6BW	1980	0.805	5	8.86	8.66	5.51	0.63	4.72	9.45	2.36	2.56	16.14	14.57	10.63	7.48	3.74	0.87	$\frac{3}{4}$-10	119	104
	KEE-13-6BW	2860	1.14	5	9.65	9.45	5.51	0.79	5.12	10.24	2.76	2.95	17.52	15.55	11.81	7.87	4.13	1.02	$\frac{7}{8}$-9	157	139
	KEE-18-6BW	3960	1.61	5	10.43	10.24	5.91	0.87	5.59	11.02	2.76	3.15	19.88	17.91	12.6	8.27	4.72	1.02	$\frac{7}{8}$-9	207	185
430Periodic Greasing	KEE-24-6CW	5280	2.15	5	11.61	12.2	6.69	0.98	6.22	12.6	3.35	3.74	21.65	20.08	14.96	9.45	4.72	1.3	$1\frac{1}{8}$-7	280	258
	KEE-34-6BW	7480	2.95	5	13.58	13.78	8.66	1.18	7.28	14.37	3.94	4.33	23.82	22.24	16.93	11.81	4.13	1.54	$1\frac{3}{8}$-6	386	353
	KEE-45-6BW	9900	4.02	5	13.58	13.78	8.66	1.18	7.28	14.37	3.94	4.33	26.97	24.61	16.93	11.81	5.31	1.54	$1\frac{3}{8}$-6	470	430
	KEE-60-6BW	13200	4.96	6	15.55	14.96	4.92	1.3	8.27	16.34	4.13	—	27.56	24.8	18.11	12.99	5.31	1.54	$1\frac{3}{8}$-6×6	595	547
	KEE-80-6CW	17600	7.38	6	15.55	14.96	4.92	1.3	8.27	16.34	4.13	—	31.5	28.94	18.11	12.99	6.5	1.54	$1\frac{3}{8}$-6×6	739	661
	KEE-110-6W	24200	10.1	7	18.31	17.32	5.51	1.42	9.45	18.7	4.92	—	32.28	29.92	20.87	14.57	6.5	1.77	$1\frac{5}{8}$-5×6	1010	926
	KEE-140-6W	30800	12.1	8	20.28	18.9	5.51	1.5	10.43	20.67	4.92	—	37.01	34.65	22.44	20.08	6.1	1.77	$1\frac{5}{8}$-5×8	1390	1270
	KEE-165-6W	36300	14.8	8	20.28	18.9	5.51	1.5	10.43	20.67	4.92	—	38.58	36.02	22.44	20.08	7.09	1.77	$1\frac{5}{8}$-5×8	1520	1390
	KEE-185-6W	40700	17.4	8	22.05	20.47	5.51	1.5	11.42	22.44	4.92	—	38.19	36.02	24.02	20.08	6.69	1.77	$1\frac{5}{8}$-5×8	1790	1600
	KEE-210-6W	46200	17.4	8	22.87	20.47	5.51	1.77	11.93	23.54	4.92	—	37.4	—	24.02	20.08	6.69	1.77	$1\frac{5}{8}$-5×8	1970	—

Specifications (Metric)

	Model	Vibrating Force	Output	Drawing No.	Dimensions(mm)														Mass (kg)	
		(kN)	(kW)		D	E	F	G	H	I	J	K	L 50/60	L 60	M	N	W	ød	Bolt Dia.	50/60 Hz	60 Hz
Greased and Sealed	KEE-3-6W	3	0.2	5	170	160	100	12	92	195	40	45	330	290	190	130	85	14	M12	25	22
	KEE-5-6W	5	0.35	5	190	180	110	13	102	210	50	55	365	330	220	150	90	18	M16	36	32
	KEE-9-6BW	9	0.6	5	225	220	140	16	120	240	60	65	410	370	270	190	95	22	M20	54	47
	KEE-13-6BW	13	0.85	5	245	240	140	20	130	260	70	75	445	395	300	200	105	26	M24	71	63
	KEE-18-6BW	18	1.2	5	265	260	150	22	142	280	70	80	505	455	320	210	120	26	M24	94	84
Periodic Greasing	KEE-24-6CW	24	1.6	5	295	310	170	25	158	320	85	95	565	510	380	240	120	33	M30	127	117
	KEE-34-6BW	34	2.2	5	345	350	220	30	185	365	100	110	605	565	430	300	105	39	M36	175	160
	KEE-45-6BW	45	3	5	345	350	220	30	185	365	100	110	685	625	430	300	135	39	M36	213	195
	KEE-60-6BW	60	3.7	6	395	380	125	33	210	415	105	—	700	630	460	330	135	39	M36x6	270	248
	KEE-80-6CW	80	5.5	6	395	380	125	33	210	415	105	—	800	735	460	330	165	39	M36x6	335	300
	KEE-110-6W	110	7.5	7	465	440	140	36	240	475	125	—	820	760	530	370	165	45	M42x6	460	420
	KEE-140-6W	140	9	8	515	480	140	38	265	525	125	—	940	880	570	510	155	45	M42x8	630	575
	KEE-165-6W	165	11	8	515	480	140	38	265	525	125	—	980	915	570	510	180	45	M42x8	690	630
	KEE-185-6W	185	13	8	560	520	140	38	290	570	125	—	970	915	610	510	170	45	M42x8	810	725
	KEE-210-6W	210	13	8	581	520	140	45	303	598	125	—	950	—	610	510	160	45	M42x8	895	—

Vibrator Spped

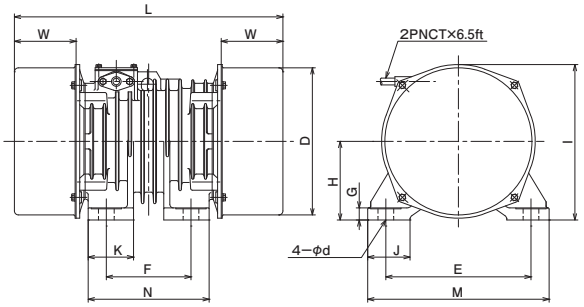
Power supply frequency of 50 Hz
...16.7 Hz (1000 r/min)
Power supply frequency of 60 Hz
...20 Hz (1200 r/min)

KEE-18-6BW

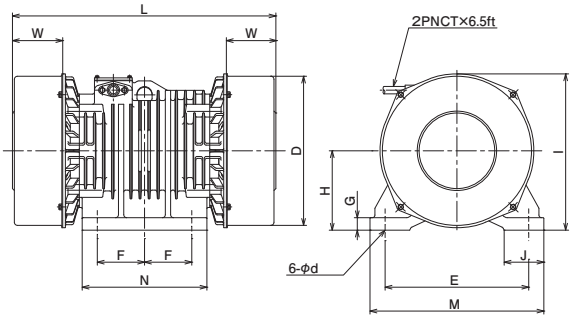
	Model	Full-load Current (A)						Drawing No.	Vents	Protection Structure	Min.Cable Bending Radius (inch)	Snap Ring	Thrust Bearing	Stainless Steel Cover (option)
		230/460V 60Hz		380V 50Hz	415V 50Hz	525V 50Hz	575V 60Hz							
Greased and Sealed	KEE-3-6W	1.1	0.65	0.75	0.82	0.61	0.52	5	without	IP66	4	without	without	√
	KEE-5-6W	1.7	1.0	1.1	1.1	0.84	0.74	5	without	IP66	4	without	without	√
	KEE-9-6BW	2.9	1.7	1.9	1.9	1.4	1.2	5	without	IP66	4	without	without	—
	KEE-13-6BW	3.9	2.1	2.3	2.3	1.7	1.5	5	without	IP66	4	without	without	—
	KEE-18-6BW	4.8	2.7	3.2	3.2	2.3	2.1	5	without	IP66	4	with	without	—
Periodic Greasing	KEE-24-6CW	6.5	3.8	4.1	4.1	3.0	2.7	5	without	IP66	6	with	without	—
	KEE-34-6W	8.2	4.6	5.3	5.1	3.9	3.6	5	without	IP66	6	with	without	—
	KEE-45-6BW	10.8	5.7	6.9	6.6	5.0	4.6	5	without	IP66	6	with	without	—
	KEE-60-6BW	13.4	7.4	8.1	7.8	5.9	5.2	6	without	IP66	8	with	without	—
	KEE-80-6CW	18.5	9.8	11.6	10.8	8.2	7.3	6	with	IP66	8	with	without	—
	KEE-110-6W	+	14.4	16.1	15.7	11.8	11.3	7	with	IP66	8	with	with	—
	KEE-140-6W	34.5	17.3	20	18.9	15	13	8	with	IP55	11	with	with	—
	KEE-165-6W	40.1	20.1	24	22.2	24	15.5	8	with	IP55	11	with	with	—
	KEE-185-6W	45.6	22.8	27	25	+	+	8	with	IP55	11	with	with	—
	KEE-210-6W	+	29	32	32	+	+	8	with	IP55	11	with	with	—

+: Custom Order. —: Not available. √: Available.

Drawing No. 5

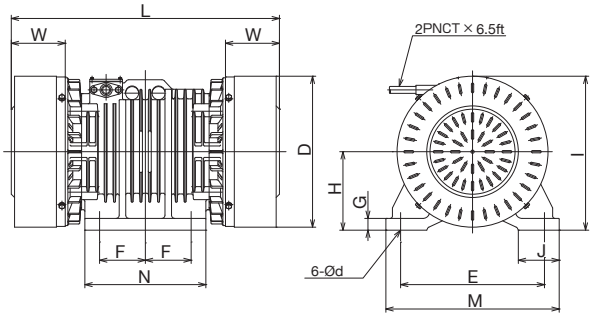


Drawing No. 6

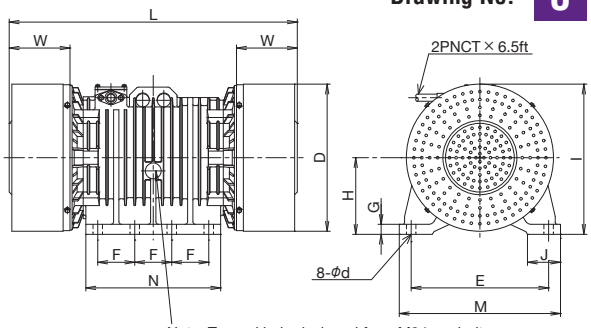


Note: The KEE-80-6CW model has vents.

Drawing No. 7



Drawing No. 8



Note: Tapped hole designed for a M24-eyebolt used for hoisting.

CSA standards supported

(Certified under CSA at a single voltage of 575 V or less and 60Hz.)

KEE Standard Uras Vibrators, Eight Poles

Specifications (Imperial)

	Model	Vibrating Force	Output	Drawing No.	Dimensions(inch)														Mass (lbs)	
		(lbf)	(HP)		D	E	F	G	H	I	J	K	L 50/60	L 60	M	N	W	ød	Bolt Dia.	50/60 Hz	60 Hz
Greased and Sealed	KEE-5-8W	1100	0.536	5	8.86	8.66	5.51	0.63	4.72	9.45	2.36	2.56	16.14	14.37	10.63	7.48	3.74	0.87	$\frac{3}{4}$-10	115	99
	KEE-7.3-8W	1606	0.82	5	9.65	9.45	5.51	0.79	5.12	10.24	2.76	2.95	—	15.55	11.81	7.87	4.02	1.02	$\frac{7}{8}$-9	—	130
	KEE-10-8BW	2200	1.01	5	10.43	10.24	5.91	0.87	5.59	11.02	2.76	3.15	19.88	17.91	12.6	8.27	4.72	1.02	$\frac{7}{8}$-9	194	174
	KEE-20-8BW	4400	2.01	5	11.61	12.2	6.69	0.98	6.22	12.6	3.35	3.74	24.02	21.65	14.96	9.45	5.91	1.3	$1\frac{1}{8}$-7	328	291
Periodic Greasing	KEE-35-8W	7700	2.95	5	13.58	13.78	8.66	1.18	7.28	14.37	3.94	4.33	27.95	26.38	16.93	11.81	6.1	1.54	$1\frac{3}{8}$-6	507	463
	KEE-42-8W	9240	2.95	5	13.58	13.78	8.66	1.18	7.28	14.37	3.94	4.33	—	27.95	16.93	11.81	6.1	1.54	$1\frac{3}{8}$-6	—	487
	KEE-60-8BW	13200	4.96	6	15.55	14.96	4.92	1.3	8.27	16.34	4.13	—	30.91	28.54	18.11	12.99	6.89	1.54	$1\frac{3}{8}$-6×6	721	650
	KEE-77-8W	16940	4.96	6	15.55	14.96	4.92	1.3	8.27	16.34	4.13	—	31.3	32.48	18.11	12.99	7.28	1.54	$1\frac{3}{8}$-6×6	794	794
	KEE-100-8W	22000	8.05	7	18.31	17.32	5.51	1.42	9.45	18.7	4.92	—	35.43	33.86	20.87	14.57	8.07	1.77	$1\frac{5}{8}$-5×6	1150	1070
	KEE-125-8BW	27500	10.1	8	20.28	18.9	5.51	1.5	10.43	20.67	4.92	—	40.55	39.37	22.44	20.08	7.68	1.77	$1\frac{5}{8}$-5×8	1510	1420
	KEE-150-8BW	33000	12.1	8	20.28	18.9	5.51	1.5	10.43	20.67	4.92	—	42.52	41.3	22.44	20.08	9.06	1.77	$1\frac{5}{8}$-5×8	1690	1570
	KEE-185-8BW	40700	14.8	8	22.05	20.47	5.51	1.5	11.42	22.44	4.92	—	42.91	39.76	24.02	20.08	9.06	1.77	$1\frac{5}{8}$-5×8	1970	1810
	KEE-210-8W	46200	16.1	8	22.87	20.47	5.51	1.65	11.81	23.23	4.92	—	42.91	—	24.02	20.08	9.06	1.77	$1\frac{5}{8}$-5×8	2140	—

—: Not Available

Specifications (Metric)

	Model	Vibrating Force	Output	Drawing No.	Dimensions(mm)														Mass (kg)	
		(kN)	(kW)		D	E	F	G	H	I	J	K	L 50/60	L 60	M	N	W	ød	Bolt Dia.	50/60 Hz	60 Hz
Greased and Sealed	KEE-5-8W	5	0.4	5	225	220	140	16	120	240	60	65	410	365	270	190	95	22	M20	52	45
	KEE-7.3-8W	7.3	0.6	5	245	240	140	20	130	260	70	75	445	395	300	200	102	26	M24	—	59
	KEE-10-8BW	10	0.75	5	265	260	150	22	142	280	70	80	505	455	320	210	120	26	M24	88	79
	KEE-20-8BW	20	1.5	5	295	310	170	25	158	320	85	95	610	550	380	240	150	33	M30	149	132
Periodic Greasing	KEE-35-8W	35	2.2	5	345	350	220	30	185	365	100	110	710	670	430	300	155	39	M36	230	210
	KEE-42-8W	42	2.2	5	345	350	220	30	185	365	100	110	—	710	430	300	155	39	M36	—	221
	KEE-60-8BW	60	3.7	6	395	380	125	33	210	415	105	—	785	725	460	330	175	39	M36×6	327	295
	KEE-77-8W	77	3.7	6	395	380	125	33	210	415	105	—	—	825	460	330	195	39	M36x6	—	360
	KEE-100-8W	100	6	7	465	440	140	36	240	475	125	—	900	860	530	370	205	45	M42×6	520	485
	KEE-125-8BW	125	7.5	8	515	480	140	38	265	525	125	—	1030	1000	570	510	195	45	M42×8	685	645
	KEE-150-8BW	150	9	8	515	480	140	38	265	525	125	—	1080	1049	570	510	230	45	M42×8	765	710
	KEE-185-8BW	185	11	8	560	520	140	38	290	570	125	—	1090	1010	610	510	230	45	M42×8	895	820
	KEE-210-8W	210	12	8	581	520	140	42	300	590	125	—	1090	—	610	510	230	45	M42x8	970	—

—: Not Available

Vibrator Speed

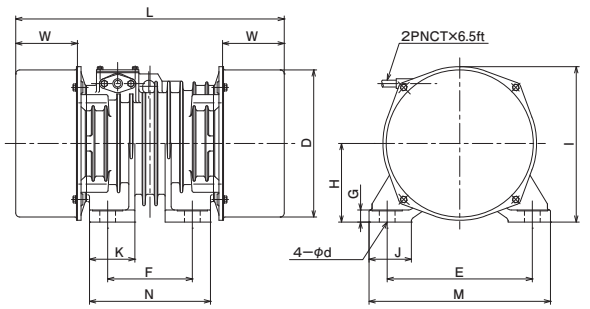
Power supply frequency of 50 Hz
...12.5 Hz (750 r/min)
Power supply frequency of 60 Hz
...15 Hz (900 r/min)

KEE-170-8BW

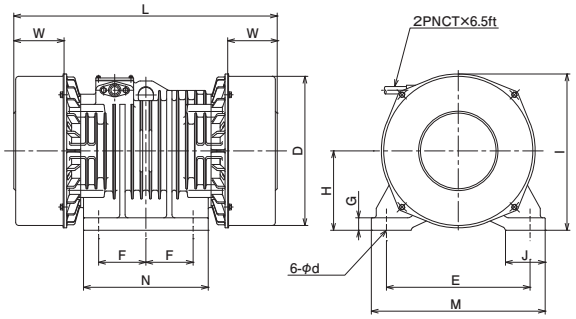
	Model	Full-load Current (A)						Drawing No.	Vents	Protection Structure	Min.Cable Bending Radius (inch)	Snap Ring	Thrust Bearing
		230/460V 60Hz		380V 50Hz	415V 50Hz	525V 50Hz	575V 60Hz						
Greased and Sealed	KEE-5-8W	2.4	1.5	1.0	1.7	—	—	5	Without	IP66	4	Without	Without
	KEE-7.3-8W	3.3	2.0	N/A	N/A	N/A	1.5	5	Without	IP66	4	Without	Without
	KEE-10-8BW	4.5	2.9	3.0	3.3	—	2.1	5	Without	IP66	4	Without	Without
	KEE-20-8BW	7.5	4.4	4.8	5.1	—	—	5	Without	IP66	6	With	Without
Periodic Greasing	KEE-35-8W	9.5	5.5	6.0	6.2	4.7	—	5	Without	IP66	6	With	Without
	KEE-42-8W	9.2	5.5	—	—	—	—	5	Without	IP66	6	With	Without
	KEE-60-8BW	14.6	8.6	9.1	9.4	6.8	6.1	6	Without	IP66	8	With	Without
	KEE-77-8W	14.6	8.6	N/A	N/A	N/A	6.1	6	With	IP55	8	With	Without
	KEE-100-8W	26	15.9	17.3	18	13	12	7	With	IP55	8	With	With
	KEE-125-8BW*	37.3	18.7	19.8	21	15.2	13	8	With	IP55	11	With	With
	KEE-150-8BW*	39	19.5	21.0	22	15.9	14	8	With	IP55	11	With	With
	KEE-185-8BW*	—	23.5	29.0	33	21	19.4	8	With	IP55	11	With	With
	KEE-210-8W*	—	29	31	34	—	—	8	With	IP55	11	With	With

-: Not available.

Drawing No. 5

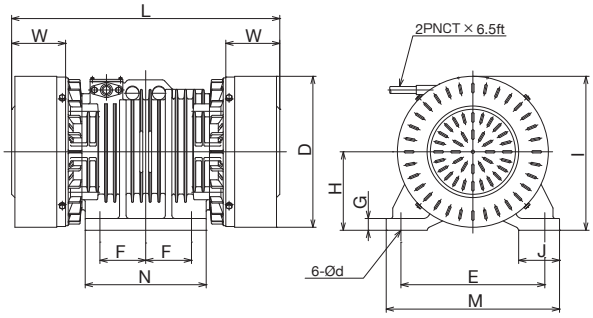


Drawing No. 6

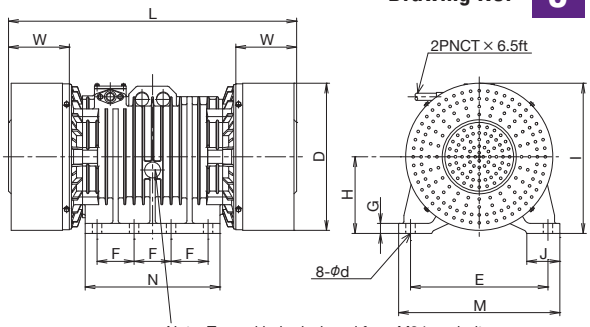


Note: The KEE-80-6CW model has vents.

Drawing No. 7



Drawing No. 8



Note: Tapped hole designed for a M24-eyebolt used for hoisting.

SEE Standard Single-phase Two Pole Uras Vibrators

Specifications

Model	Vibrating Force		Output		Full-load Current (A)						Protection Structure	Min.Cable Bending Radius(inch)	Stainless Steel Cover (Optional)
	(lbf)	(kN)	(HP)	(w)	110V 60Hz	200V 50Hz	200V 60Hz	220V 60Hz	220V 50Hz	240V 50Hz			
SEE-0.1-2	22	0.1/0.15	0.0201	15	0.39	—	—	—	0.2	0.22	IP42	4	—
SEE-0.5-2CW	110	0.5	0.0402	30	0.53	0.32	0.27	0.26	0.28	0.29	IP66	4	√
SEE-1-2BW	220	1	0.0872	65	1.2	0.61	0.62	0.6	0.51	0.54	IP66	4	—
SEE-2-2BW	440	2	0.161	120	1.9	1.11	0.98	0.97	0.94	0.94	IP66	4	√
SEE-3.5-2BW	770	3.5	0.295	220	2.9	1.7	1.6	1.6	1.4	1.4	IP66	4	√
SEE-6-2W	1320	6	0.5	350	5.1	—	—	—	—	—	IP66	4	√

—: Not Available. √: Available.
The six SEE models use Greased and Sealed bearings.
The vibrating force of the SEE-0.1-2 is fixed. This model is only for indoor use.
Use the SEE-0.1-2, -0.5-2CW, and -1-2BW at an ambient temperature between -15°C to +35°C.

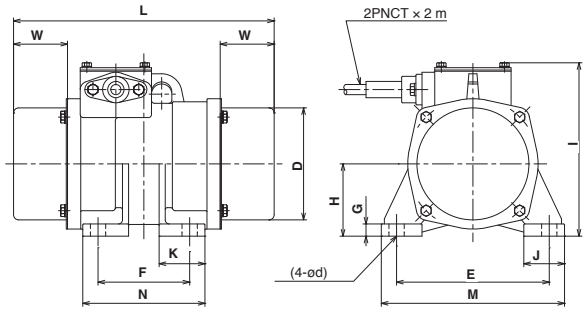
Vibrator Speed

Power supply frequency of 50 Hz
...50 Hz (3000 r/min)
Power supply frequency of 60 Hz
...60 Hz (3600 r/min)

SEE-1-2BW

Model	Dimensions(inch)														Dimensions(mm)													Mass	
	D	E	F	G	H	I	J	K	L	M	N	W	ød	Bolt Dia.	D	E	F	G	H	I	J	K	L	M	N	W	ød	Bolt Dia.	(lbs)	(kg)
SEE-0.1-2	3.35	3.54	1.73	0.09	1.77	3.54	0.71	2.95	5.31	4.21	2.36	1.77	0.33	1/4-20	85	90	44	2.3	45	90	18	75	135	107	60	45	8.5	6	6	2.5
SEE-0.5-2CW	4.33	4.72	1.57	0.39	2.48	6.68	1.3	—	8.07	5.71	2.76	1.57	0.39	5/16-18	110	120	40	10	63	170	33	—	205	145	70	40	10	8	15	7
SEE-1-2BW	4.13	5.12	3.15	0.39	2.44	6.07	1.46	1.57	8.27	6.3	4.33	1.57	0.47	3/8-16	105	130	80	10	62	175	37	40	210	160	110	40	12	10	21	9.5
SEE-2-2BW	4.33	5.91	3.54	0.47	2.8	6.89	1.57	1.77	9.06	7.09	4.72	1.57	0.55	1/2-12	110	150	90	12	71	175	40	45	230	180	120	40	14	12	29	13
SEE-3.5-2BW	4.92	7.48	4.33	0.51	3.31	7.68	1.97	2.17	11.81	9.06	5.91	2.36	0.71	5/8-11	125	190	110	13	84	195	50	55	300	230	150	60	18	16	46	21
SEE-6-2W	5.16	8.65	4.71	0.62	3.62	8.26	2.37	2.56	11.50	10.62	6.07	2.37	0.87	3/4-10	131	219	119	15	92	210	60	67	292	270	154	60	22	M20	66	30

Outline Drawings



The cable length for the SEE-0.5-2CW is 3.2ft.

Starter

Each of the Single Phase SEE series units are capacitor-start motors. Model SEE 0.1-2 has the capacitor factory installed within the end cover. The remainder of the series (SEE 0.5-2, 1-2, 2-2, 3.5-2, and 6-2) must be used in conjunction with the capacitor starter supplied with the motor. ***Under no circumstances should these units be wired directly to the 110 volt power source.*** All CVC capacitor starters are supplied in a NEMA 12/4 X box.

CAPACITOR STARTER SOLD SEPARATELY.

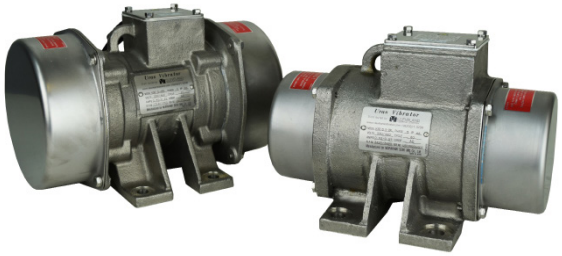
Contact The Cleveland Vibrator Company at (800) 221-3298 or via email at sales@clevelandvibrator.com for more information.

SEE-0.1-2 (The smallest Uras Vibrator)

Stainless Steel Uras Vibrators

Specifications

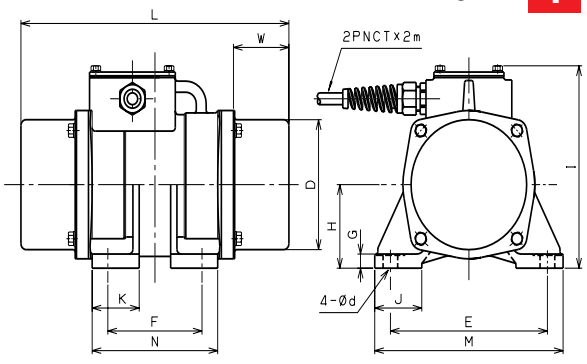
Model	Vibrating Force		Output		Full-load Current (A)										Protection Structure
	(lbf)	(kN)	(HP)	(kW)	200V 50Hz	200V 60Hz	220V 60Hz	220V 50Hz	400V 50Hz	400V 60Hz	380V 50Hz	415V 50Hz	230V/460V 60Hz		
KSE-3.5-2	770	3.5	.26	0.2	1.5	1.1	1.3	0.75	0.57	0.63	0.7	0.82	1	0.73	IP66
KSE-3-4B	660	3	0.17	0.13	1.1	0.89	0.95	0.55	0.44	0.47	0.43	0.4	0.76	0.51	IP66
KSE-9-4	1980	9	.40	0.3	2.1	1.6	1.8	1.1	0.82	0.89	0.98	1.1	1.5	1	IP66
KSE-5-6	1100	5	.47	0.35	2.3	2	2	1.1	0.98	1	1.1	1.2	1.7	1.1	IP66



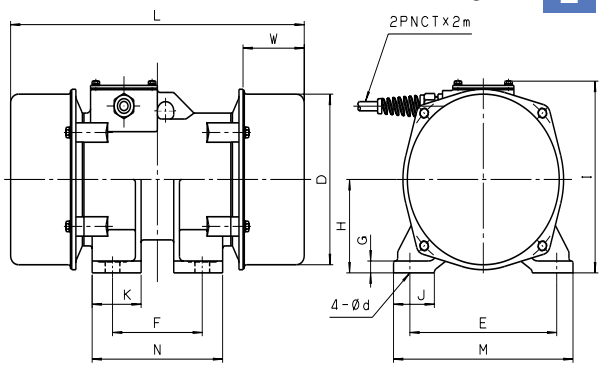
Model	Drawing Number	Dimensions(inch)														Dimensions(mm)														Mass	
		D	E	F	G	H	I	J	K	L	M	N	W	ød	Bolt Dia.	D	E	F	G	H	I	J	K	L	M	N	W	ød	Bolt Dia.	(lbs)	(kg)
KSE-3.5-2	1	4.3	5.9	3.5	0.47	2.79	6.9	1.77	1.77	10.23	7.08	4.72	2.16	0.55	1/2-12	110	150	90	12	71	175	45	45	260	180	120	55	14	M12x4	30	14
KSE-3-4B	2	6.1	5.9	3.15	0.39	3.3	7.1	1.37	1.57	10.43	7.08	4.33	2.16	0.47	3/8-16	155	150	80	10	84	180	35	40	265	180	110	55	12	M10x4	37	17
KSE-9-4	2	7.5	7.1	4.33	0.51	4.01	8.27	1.96	2.36	14.17	8.66	6.29	2.95	0.71	5/8-11	190	180	110	13	102	210	50	60	360	220	160	75	18	M16x4	79	36
KSE-5-6	2	7.5	7.1	4.33	0.51	4.01	8.27	1.96	2.36	15.55	8.66	6.29	3.54	0.71	5/8-11	190	180	110	13	102	210	50	60	395	220	160	90	18	M16x4	83	38

Outline Drawings

Drawing No. 1



Drawing No. 2



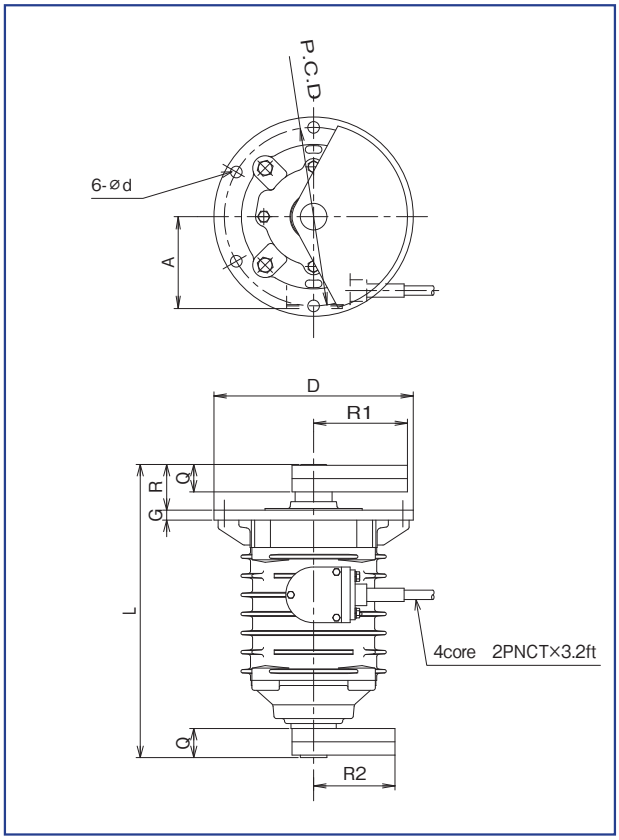
KEEV Flange-type Uras Vibrators

Specifications

Model	Output		Vibrating Force 50/60Hz															
			Flange Side								Counter-flange Side							
	(W)	(kW)	Unbalance				Vibrating Force		Weight Radius R1 (inch)		Unbalance				Vibrating Force		Weight Radius R2 (inch)	
			lbf • in		kg • cm		lbs	kN	50Hz	60Hz	lbf • in		kg • cm		lbs	kN	50Hz	60Hz
			50Hz	60Hz	50Hz	60Hz					50Hz	60Hz	50Hz	60Hz				
KEEV-7-4	0.53	0.4	15.6	10.8	18	12.5	989	4.4	4.09	3.62	13.4	9.3	11.6	8.1	607	2.7	3.54	3.15
KEEV-15-4	1.13	0.85	36.5	25.2	42	29	2340	10.4	5.12	4.57	24.2	17.3	21	15	1100	4.9	4.09	3.62
KEEV-20-4	1.59	1.2	49.5	34.7	57	40	3170	14.1	5.39	4.8	31.6	21.9	27.4	19	1440	6.4	4.25	3.78
KEEV-8-6	0.464	0.35	39.9	27.8	46	32	1120	5.0	5.59	4.96	34.6	24.2	30	21	700	3.1	4.84	4.33
KEEV-16-6	1.13	0.85	86.8	59.9	100	69	2470	11.0	6.85	6.06	58.8	40.8	51	35.4	1190	5.3	5.47	4.84
KEEV-22-6	1.59	1.2	122	84.2	140	97	3460	15.4	7.28	6.46	78.3	54.1	68	47	1570	7.0	5.75	5.08

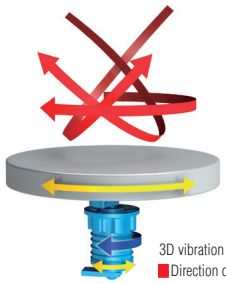
Model	Dimensions (inch)								Dimensions (mm)									Mass		Bearing Lubrication Type
	L	D	G	R	Q	A	P.C.D.	ød	L	D	G	R	Q	A	P.C.D	ød	Bolt Dia.	(lbs)	(kg)	
KEEV-7-4	13.98	9.45	0.47	2.17	1.3	4.53	8.46	0.55	355	240	12	55	33	115	215	14	M12	66/62	30/28	Greased and Sealed
KEEV-15-4	15.55	10.83	0.51	2.6	1.54	5.12	9.65	0.71	395	275	13	66	39	130	245	18	M16	115/110	52/50	Periodic Greasing
KEEV-20-4	15.98	10.83	0.51	2.91	1.77	5.12	9.65	0.71	406	275	13	74	45	130	245	18	M16	139/132	63/60	Periodic Greasing
KEEV-8-6	13.98	9.45	0.47	2.17	1.3	4.53	8.46	0.55	355	240	12	55	33	115	215	14	M12	79/73	36/33	Greased and Sealed
KEEV-16-6	15.55	10.83	0.51	2.6	1.54	5.12	9.65	0.71	395	275	13	66	39	130	245	18	M16	148/139	67/63	Periodic Greasing
KEEV-22-6	15.98	10.83	0.51	2.91	1.77	5.12	9.65	0.71	406	275	13	74	45	130	245	18	M16	172/159	78/72	Periodic Greasing

Outline Drawings



Model	Full-load Current (A)						Protection Structure
	230V 60Hz	460V 50Hz	380V 50Hz	415V 50Hz	525V 50Hz	575V 60Hz	
KEEV-7-4	1.9	0.98	1.1	1.1	0.81	0.70	IP44
KEEV-15-4	3.4	1.7	2.0	1.9	1.5	1.3	IP44
KEEV-20-4	4.2	2.3	2.7	2.6	1.9	1.8	IP44
KEEV-8-6	1.7	0.95	1.1	1.1	0.84	0.74	IP44
KEEV-16-6	3.9	2.1	2.3	2.3	1.7	1.5	IP44
KEEV-22-6	5.1	2.8	3.2	3.2	2.3	2.1	IP44

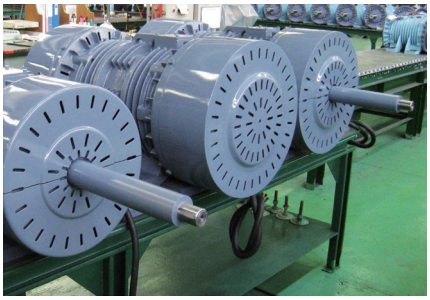
KEEV-20-4



3D vibration is generated
Direction of materials
Direction of vibration
Rotation direction of vibrators

Options

- CSA standards or CE marking available upon request for standard voltages.
  Contact Sales for custom voltage inquiries. (216) 241-7157
- One or two protruding shaft ends
- Special voltages
- Insulation classes (class F, class B)
- Extension of cable
- Split weight covers
- Support for IP66 by models equipped with vents (excluding the KEE-10-2BW, 16-2W and 23-2W)
- Drop-prevention safety cable



Coupled operation of Uras Vibrator with shaft (optional)

Recommended Wire Size for Two Poles

Uras Vibrator Model	Wire Diameter	
	inch	mm
KEE-0.5-2CW	ø0.23	ø6
KEE-1-2CW	ø0.23	ø6
KEE-2-2CW	ø0.23	ø6
KEE3.5-2BW	ø0.23	ø6
KEE-6-2BW	ø0.23	ø6
KEE-10-2BW	ø0.23	ø6
KEE-16-2W	ø0.23	ø6
KEE-23-2W	ø0.23	ø6
KEE-30-2W	ø0.31	ø8
KEE-40-2W	ø0.31	ø8

Drop-prevention wire

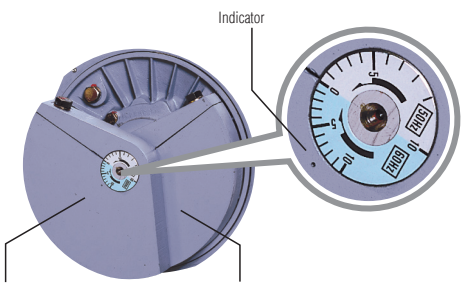
How to Adjust the Vibrating Force

Fan-shaped Weight Adjustment

Unbalanced weights are attached at both ends of the shaft. As shown in the photo on the right, one fixed weight and one adjustable weight whose angle can be varied are attached to each end of the shaft. To adjust the vibrating force of the Uras Vibrator, the combined eccentric moment of the fixed and adjustable weights is changed by changing the angle of the center of gravity of the fixed and adjustable weights.

The required vibrating force can be set by loosening the locking bolt used to secure the adjustable weight and aligning the indicator with the required scale marking on the scale plate. The photo shows an example of an adjustment to 80% of the maximum vibrating force at 60 Hz.

Fan-shaped weight system



Scale plate

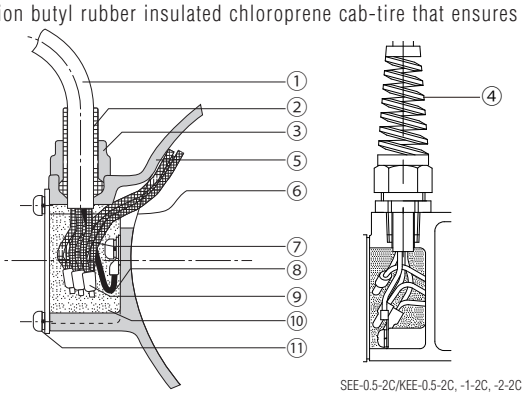
(* The example given here shows a vibrating force of 80% at 60 Hz.)

Terminal Box and Cable

Uras Vibrator terminal boxes are filled with a special Uras Compound. This non-hardening, high-adhesion compound was developed to provide superior vibration-, humidity-, and dust-resistance. The lead cable is an anti-vibration butyl rubber insulated chloroprene cab-tire that ensures long life.

No.	Part Name	No.	Part Name
1	2PNCT (anti-vibration butyl rubber insulated chloroprene cab-tire cable)	7	Single-core, lead-in wire
		8	Ground wire
		9	Insulated closed-end connector
2	Rubber bushing	10	Uras Compound (non-hardening, high-adhesion compound)
3	Bellmouth		
4	Spiral ground made of resin		
5	Frame	11	Terminal Box Cover
6	Epoxy resin adhesive		

The red, white, black, and green wires on the cable are wired to phase U, phase V, phase W, and the ground line (E), respectively. If U, V, W, and E are respectively wired to R, S, T, and E, the motor will be rotated in the direction of the cable inlet. Wire U to phase S and V to phase R to reverse the rotation direction.



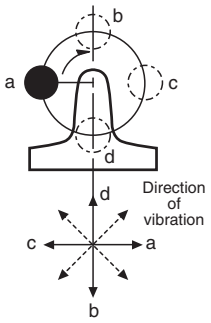
SEE-0.5-2C/KEE-0.5-2C, -1-2C, -2-2C

Circular Vibration and Linear Vibration

When generating vibration using one Uras Vibrator

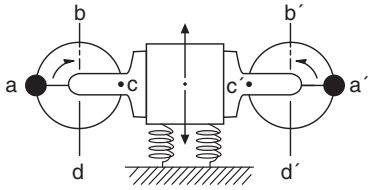
When one Uras Vibrator is installed and used to generate vibration, revolution occurs while the position of the unbalanced weight changes in the sequence of a, b, c, and d. This means that the vibration direction also changes in the same way, generating circular vibration.

Examples of the uses of circular vibration include the prevention of blockages in hoppers as well as applications in vibration milling machines and barrel finishing machines.



When generating linear vibration using two Uras Vibrators

Two identical Uras Vibrators set to the same vibrating force are supported by soft springs as shown in the figure on the right and their vibrator shafts are installed in parallel. These vibrators are run concurrently in mutually opposing directions. In this configuration, a synchronous torque is produced and, even without transmission through gears or other mechanisms, the two vibrators start a synchronous operation in which the forces in the horizontal direction cancel each other out while only vertical vibration is generated. This principle is used for packers, vibrating feeders, conveyors, screens, and many other kinds of machines that apply vibration.



Warranty Information

Cleveland Vibrator Company & Uras Techno industrial vibrators are warranteed for **3 years** from the date of shipment, if the unit is installed and operated in accordance with the factory instructions. The warranty covers material defects and manufacturer's workmanship.

CLEVELAND VIBRATOR COMPANY

The Exclusive USA Distributor of Uras Techno Vibrators

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