Rotary Electric Vibrators

Newly redesigned JHV super-duty vibrator with the same footprint, lower operating temperature, and improved output force. CE & CSA certifications available for select models. UL Class II, Div. II available on future models.

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.

Uras Techno & J&H Equipment have collaborated to develop a new generation JHV vibrator. The vibrators are optimized for the J&H product line featuring a robust design that prioritizes longevity by using oversize shafts and bearings to meet the rigorous demands of the material processing industry.

BENEFITS INCLUDE

- IP66, continuous duty rating for long service life in harsh conditions
- Highly flexible with adjustable force outputs (0%–100%), frequency ranges and amplitudes
- All-weather polyurethane coating finish
- Low noise level — run at an average of 65 dB at one meter
- All units have permanently greased bearings to minimize maintenance
- Mounting fasteners and pre-installed anti-vibrational lead cable included
- 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

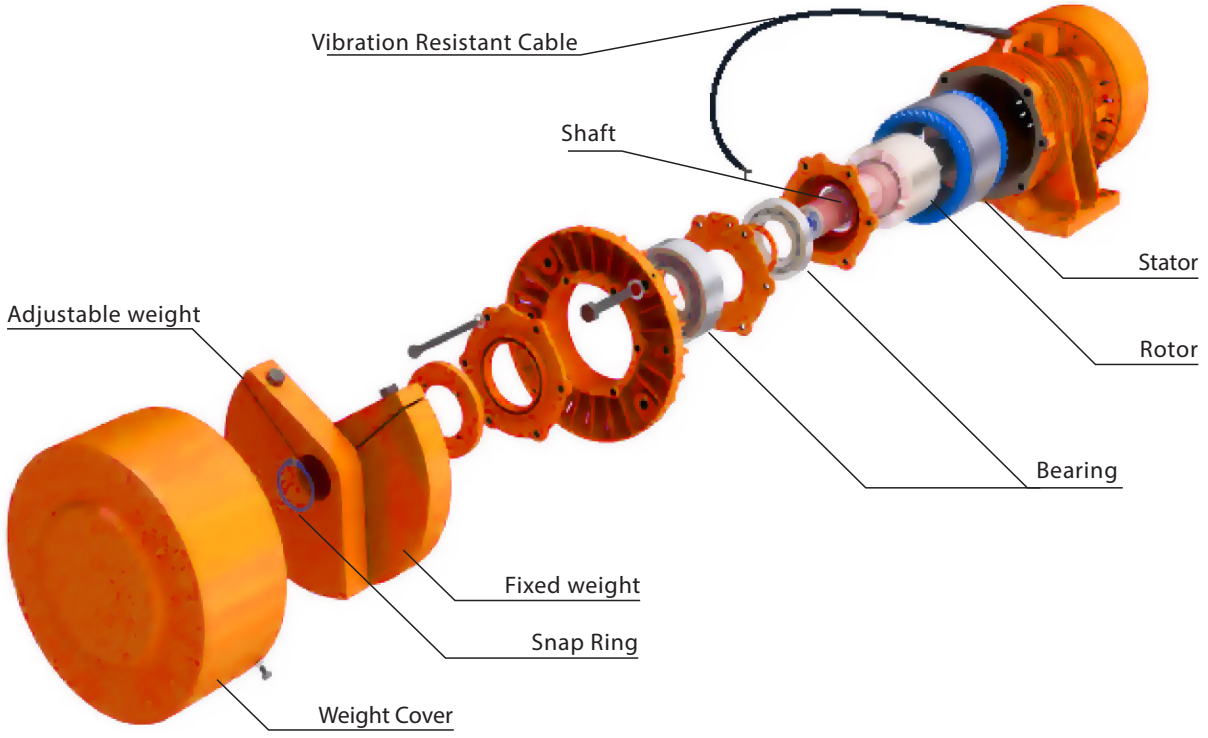
Key Details/Features of The JHV Motor

- Robust design with oversized shaft and bearings.
- Motors are designed to JIS standards, comparable to IEC.
- Improved energy consumption to output force ratio.
- Low operation temperatures.
- Simplified, quick eccentric weight adjustment.

JHV Models and Range

Model	No. of Poles	Frequency (Hz)	Vibrating Force (lbf)	Vibrating Force (kN)	Available Voltage (V)	Speed (rev/min)	Paint Color	Certification	Ouput (HP)	Output (kW)
17-114-A	4	(50)/60	1798	8	(380)/(400)/(415)/230/460	1500 @ 50 Hz / 1800 @ 60 HZ	Red	CE	0.8	0.6
17-114-B		60			575			CSA		
17-114-C		50			380/660			None		
17-115-A	2	(50)/60	2698	12	(380)/(400)/(415)/230/460	3000 @ 50 Hz / 3600 @ 60 HZ	Orange	CE		
17-115-B		60			575			CSA		
17-115-C		50			380/660			None		

Construction



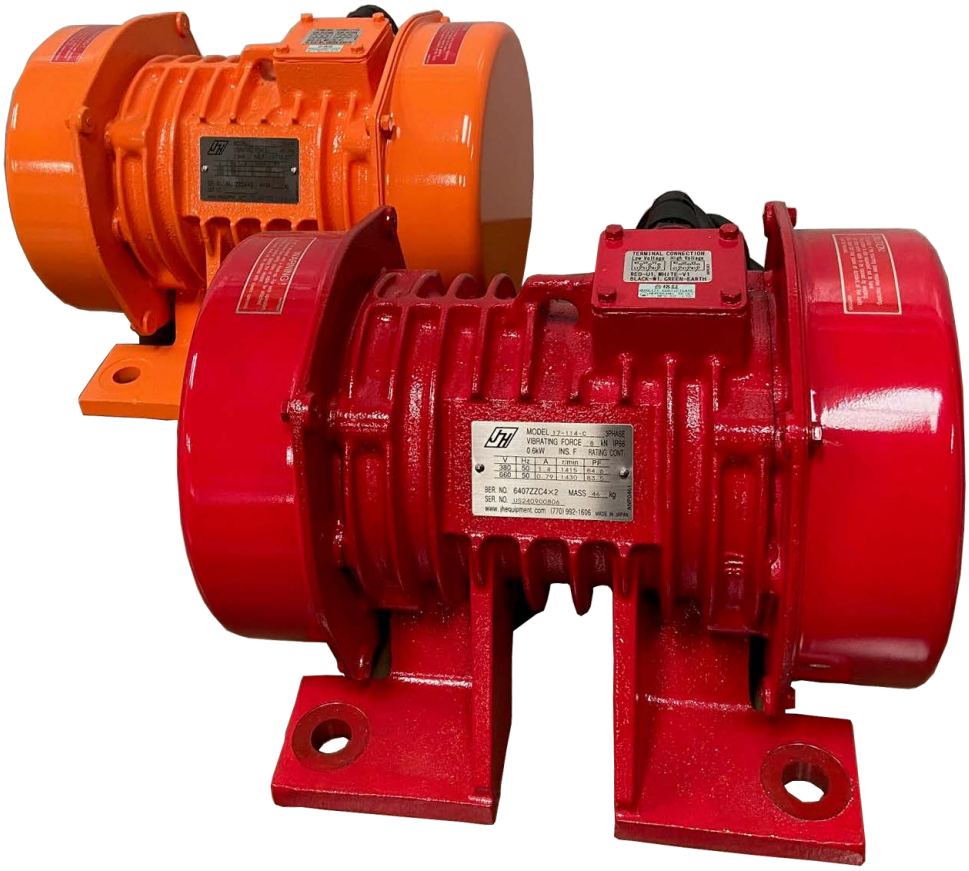
Uras Vibrators feature an extremely simple mechanism whereby vibrating force is created by rotating unbalanced weights attached to both ends of an induction motor shaft. Drawing on research and a proven track record that spans a half-century since our vibrators were originally developed, we have perfected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

Standard Specifications of JHV Series

Specification		Three-phase	
		2 Poles	4 Poles
Power Supply		230/380/400/415/460/575/660	
Time Rating		Continuous rating	
Thermal Class		Class F	
External Cover Structure (Vibrating Force kN)		12	8 to 10.5
Protection Structure		IP66	
Output (kW)		0.6	
Speed	Power Supply Frequency (Hz)	50/60	
	(r/min)	3000/3600	1500/1800
Vibrating Force (kN)		12	8
Vibrating Force (lbf)		2698	1798
Sealed ZZ Bearings Vibrating Force (kN)		12	8 to 10.5
Enclosed Cable		2PNCT (4-core) x 2m cable	
Installation Method		Frame leg installation	
Coating Color		J&H Orange	J&H Red
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	

* Please contact J&H for applications subject to temperatures below -15°C or above 40°C.



JHV Standard Uras Vibrators

Specifications (Imperial)

Model	Vibrating Force (lbf)	Output (HP)	No. of Poles	Dimensions (Inch)												Mass (lbs)
				A	B	C	D	E	F	G	H	I	J	K	Bolt Dia.	
17-114-A	1798	0.8	4	11.417	9.528	11.024	8.504	0.866	8.787	2.559	13.661	5.354	9.961	8.543	3/4" - 16 UNF	101.4
17-114-B			4													99.2
17-114-C			4													101.4
17-115-A	2698		2													90.4
17-115-B			2													88.2
17-115-C			2													90.4

Specifications (Metric)

Model	Vibrating Force (lbf)	Output (HP)	No. of Poles	Dimensions (mm)												Mass (kg)
				A	B	C	D	E	F	G	H	I	J	K	Bolt Dia.	
17-114-A	1798	0.8	4	290	242	280	216	22	223	65	347	136	253	217	M18*	46
17-114-B			4													45
17-114-C			4													46
17-115-A	2698		2													41
17-115-B			2													40
17-115-C			2													41

* J&H standard bolt supply is 3/4" - 16 UNF. Metric equivalent is M18 (Type 8.8), to be used at customer's discretion.

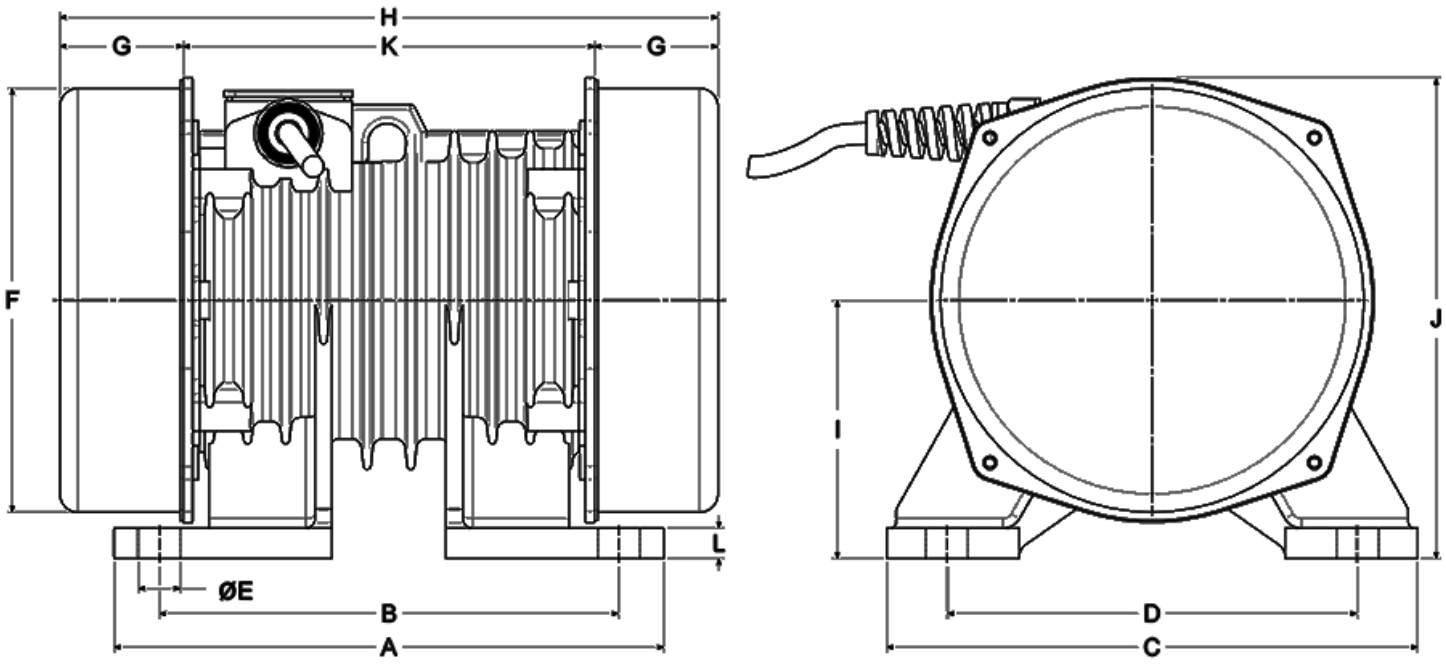
Vibrator Speed
Power supply frequency of 50 Hz
Power supply frequency of 60 Hz

Vibrator Speed
Power supply frequency of 50 Hz
Power supply frequency of 60 Hz

Model	Full-load Current (A)														Protection Structure
	230 Volt		380 Volt		400 Volt		415 Volt		460 Volt		575 Volt		660 Volt		
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
17-114-A	-	2.4	1.5	-	1.4	-	1.4	-	-	1.3	-	-	-	-	IP66
17-114-B	-	-	-	-	-	-	-	-	-	-	-	0.84	-	-	
17-114-C	-	-	1.5	-	-	-	-	-	-	-	-	-	0.85	-	
17-115-A	-	2.3	1.4	-	1.4	-	-	1.3	-	1.2	-	-	-	-	
17-115-B	-	-	-	-	-	-	-	-	-	-	-	0.84	-	-	
17-115-C	-	-	1.3	-	-	-	-	-	-	-	-	-	0.72	-	

* Minimum cable bending radius, 4" [100mm] per machine manual.

Outline Drawings



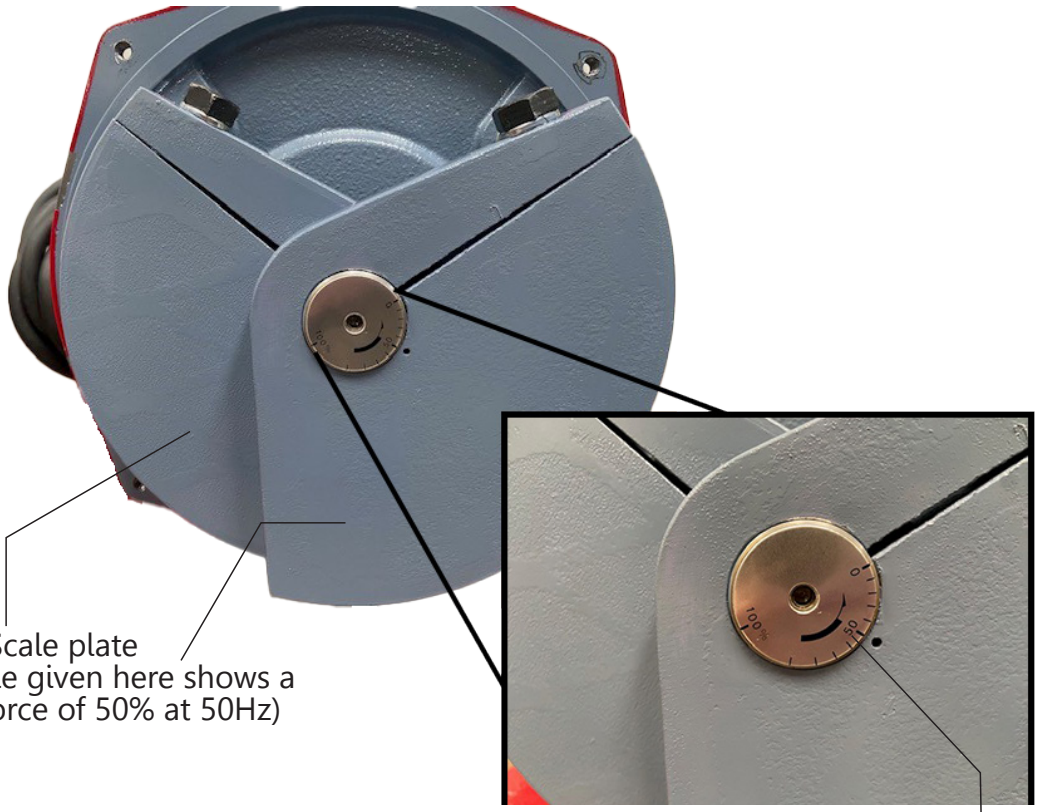
How to Adjust the Vibrating Force

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 50% of the maximum vibrating force at 50 Hz.

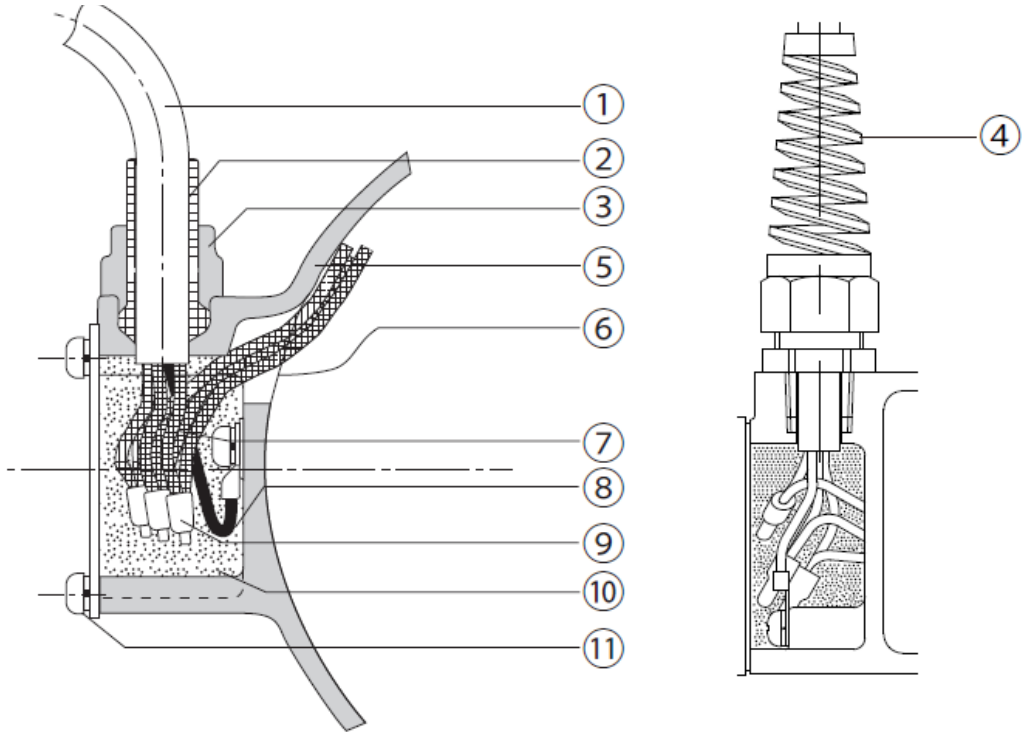
Fan-shaped weight system



Terminal Box and Cable

Uras Vibrator terminal boxes are filled with a special foam. The lead cable is an anti-vibration butyl rubber insulated chloroprene cab-tire that ensures long life.

	Part Name				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	4	Strain Relief	10	Isolation
3	Bellmouth				
5	Frame			11	Terminal Box Cover



The World Leader In Vibrating Wire Screens

FOR MORE INFORMATION
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