



KUO YANG Machine Industrial Co., Ltd.

Vibratory Machinery · Vibration Motors · Automation



Vibration motors tested for ignition and explosion-pressure resistance to commodity-inspection requirements.

**Class H insulation (silicone-rubber coated wire)
24-hour continuous operation
Safe operating life: over 30,000 hours
Designed for safe operation in damp, dry, dusty and other demanding environments.**

Manufactured in-house. Quality assured.



2Pole

Vibration
frequency

50 Hz
3000V.P.M

60 Hz
3600V.P.M

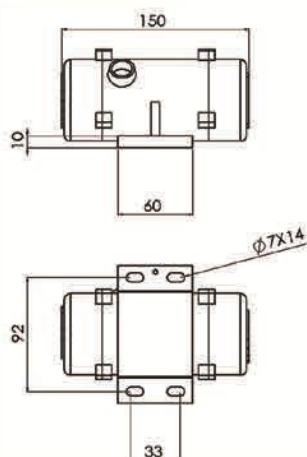
2-Pole Applications

- Prevents bridging in industrial storage hoppers and discharge pipes.
- Vibratory filling and compaction of powders in packaging machines.
- Dislodges dust in air-pollution control and dust-collection systems.
- Nondestructive vibration testing for electronics and computers.
- External vibration of concrete molds: tunnel walls, culverts, sewer covers, bridges, utility poles and precast segments for rapid-transit systems.
- Vibration for removing air bubbles from epoxy products and printed circuit boards (PCBs).



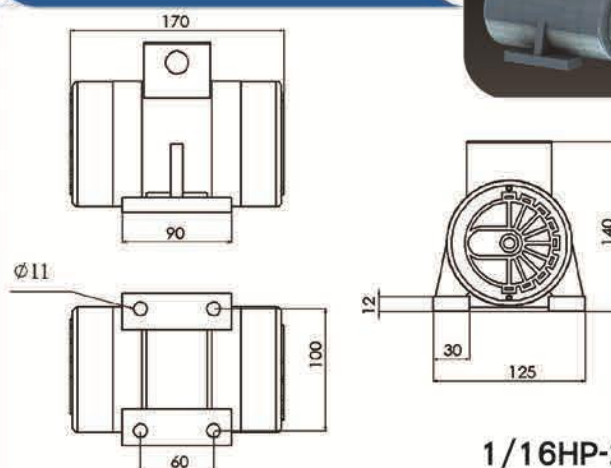
Model	Power (HP)	Power (W)	Vibratory force (kg)	Weight (kg)
G-168	1/32	30	30	1.5
G-200S	1/16	45	50	3.5
G-200	1/16	45	50	3.5
G-205	1/10	100	80	12
G-210	1/8	100	100	13
G-220	1/4	200	260	18
G-225	1/3	250	360	20
G-240	1/2	400	600	25
G-2100	1	750	1000	38
G-2120	1 1/2	1120	1600	39
G-2150	2	1500	2000	40
G-2250	3	2200	3000	75
G-2350	5	3700	5000	83
G-2600	7 1/2	5600	7500	85

G-168



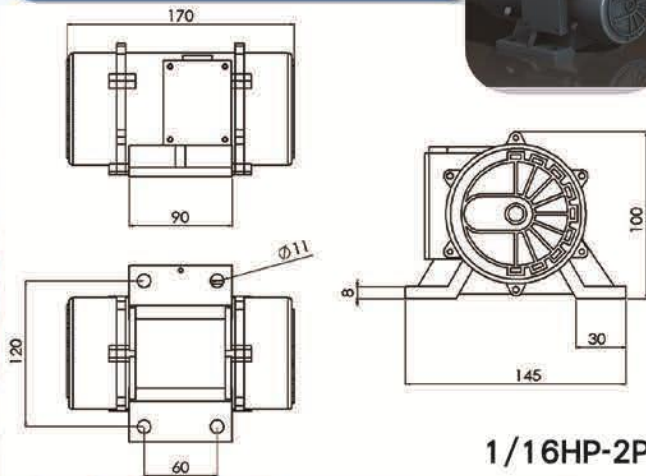
1/32HP-2P

G-200



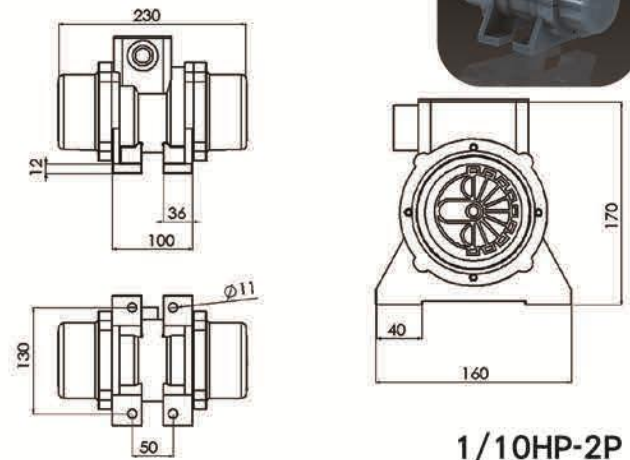
1/16HP-2P

G-200s



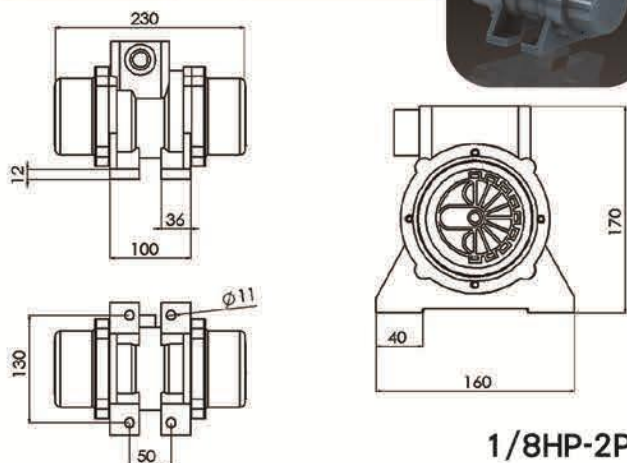
1/16HP-2P

G-205



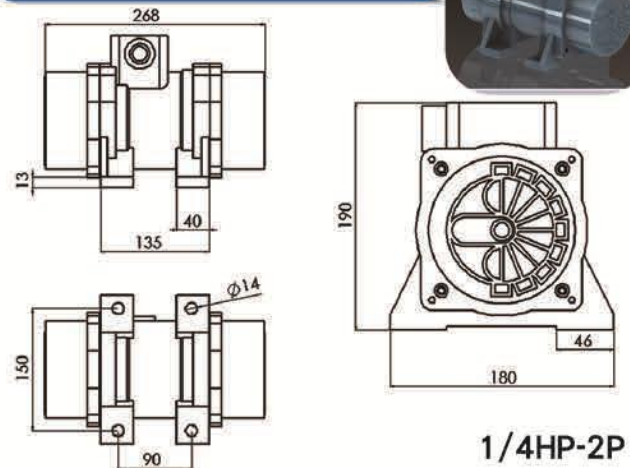
1/10HP-2P

G-210



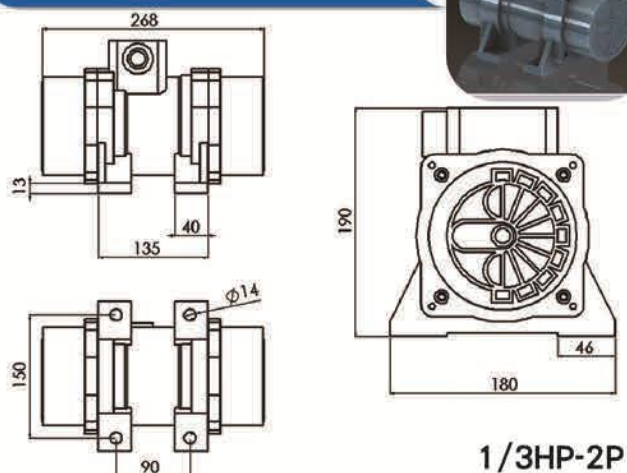
1/8HP-2P

G-220



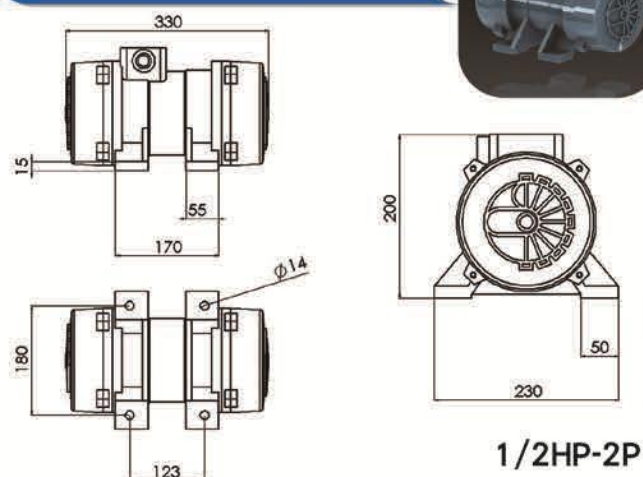
1/4HP-2P

G-225



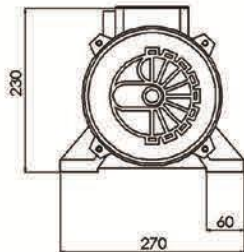
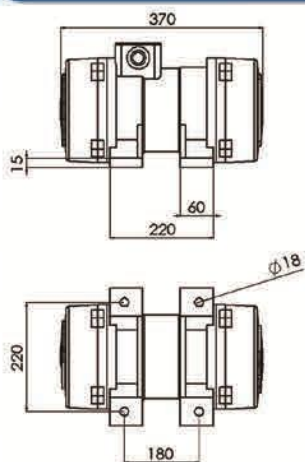
1/3HP-2P

G-240



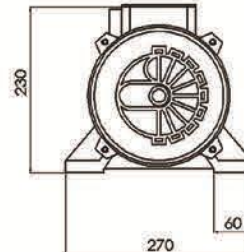
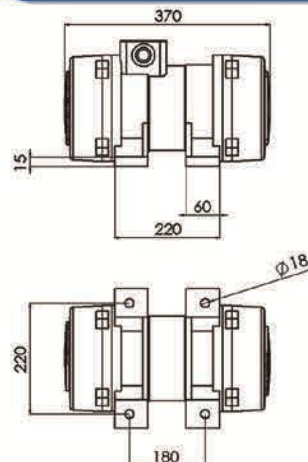
1/2HP-2P

G-2100



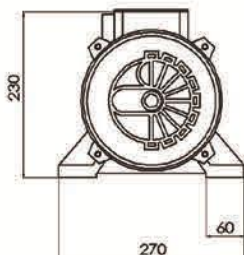
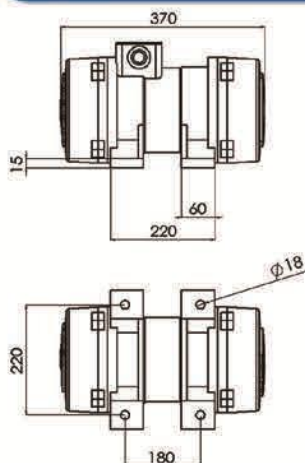
1HP-2P

G-2120



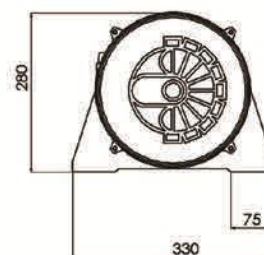
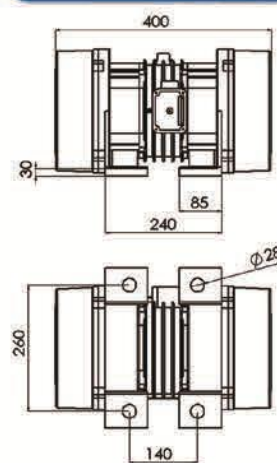
1 1/2HP-2P

G-2150



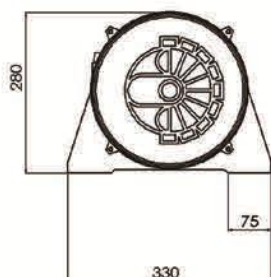
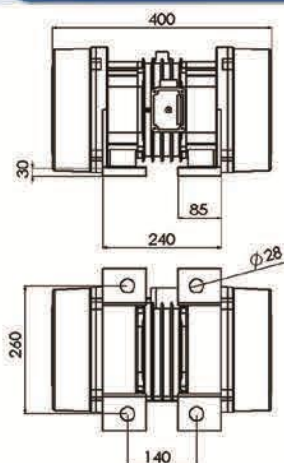
2HP-2P

G-2250



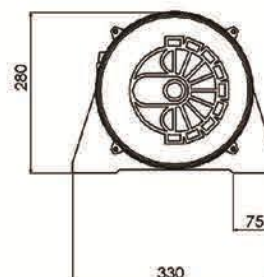
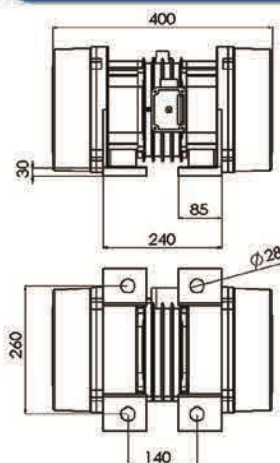
3HP-2P

G-2350



5HP-2P

G-2600



7 1/2HP-2P



4Pole

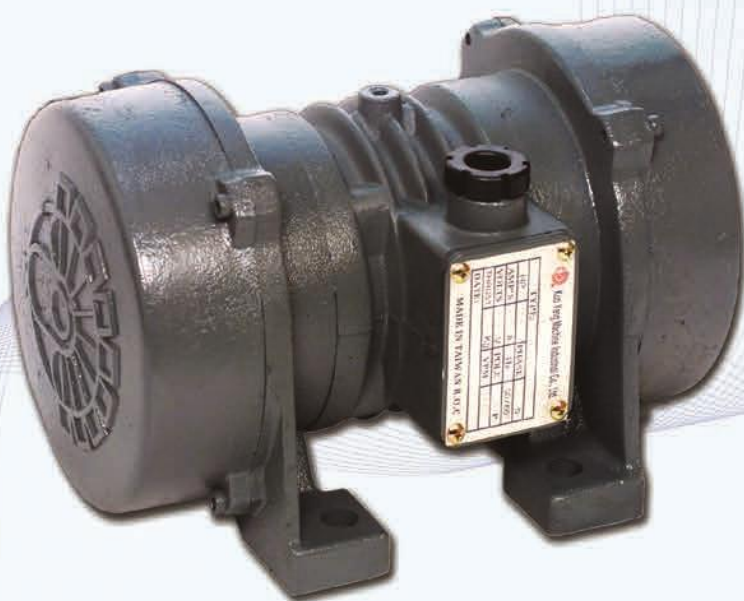
Vibration
frequency

50 Hz
1500V.P.M

60 Hz
1800V.P.M

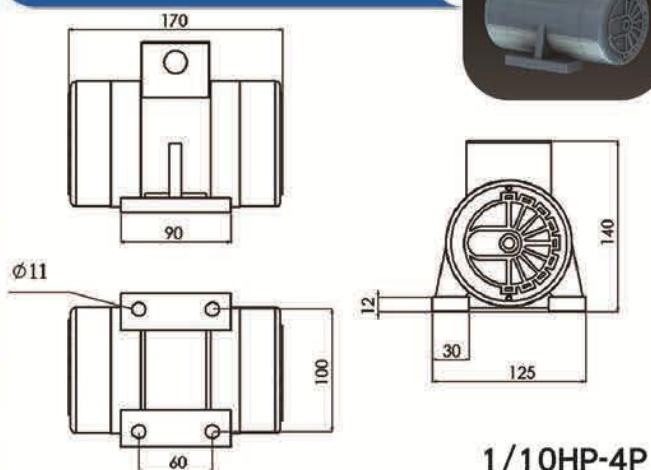
4-Pole Applications

- Anti-bridging vibratory discharge from small storage hoppers.
- Vibratory powder filling and packaging.
- Twin-motor vibratory dewatering.
- Metered foundry feeding, conveying and sand screening.
- Vibratory filtration of liquids, including sludge and paper pulp.
- Vibratory sieving for electrostatic flocking.
- Plastic pellet screening at throughputs below 6 tons/hour.
- Small and medium vibratory conveyors and screens; best suited to lengths up to 5 m and widths up to 1 m. For hardware, food, chemicals, aggregates and mining.



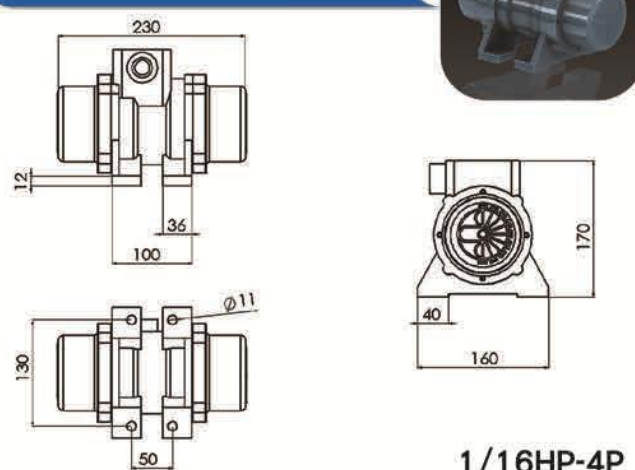
Model	Power (HP)	Power (W)	Vibratory force (kg)	Weight (kg)
W-400	1/16	45	30	3.5
W-405	1/10	100	60	13
W-410	1/8	100	100	16
W-415	1/6	120	150	18
W-420	1/4	200	400	23
W-425	1/3	250	550	23
W-440	1/2	400	900	45
W-475	1	750	1800	62
W-4100	1 1/2	1120	2500	85
W-4150	2	1500	3500	93
W-4250	3	2200	5000	160
W-4350	5	3700	7500	260
W-4600	7 1/2	5600	8500	410
W-4700	10	7500	10000	500

W-400



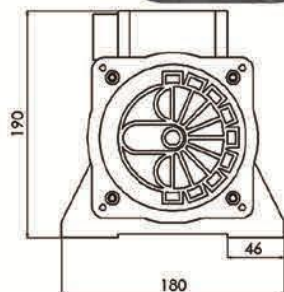
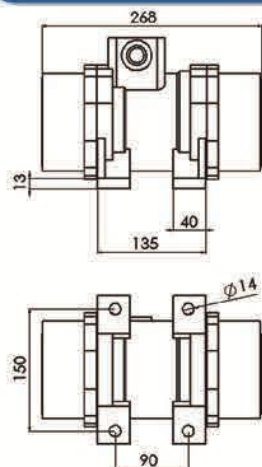
1/10HP-4P

W-405



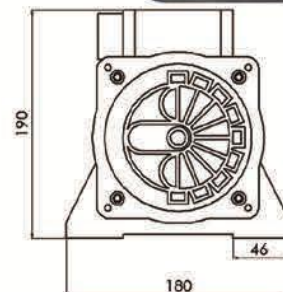
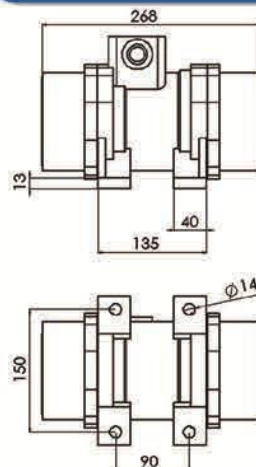
1/16HP-4P

W-410



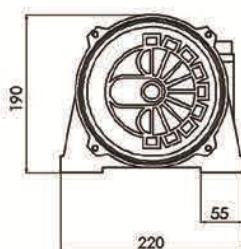
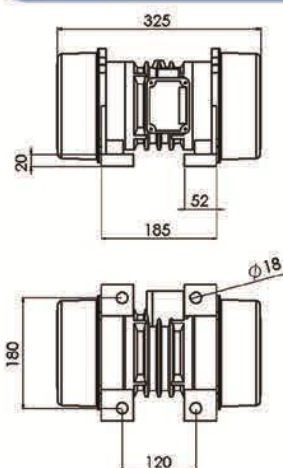
1/8HP-4P

W-415



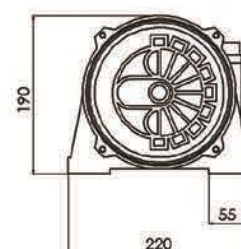
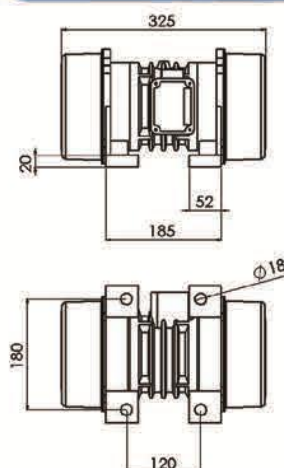
1/6HP-4P

W-420



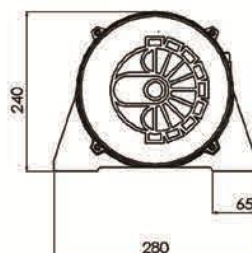
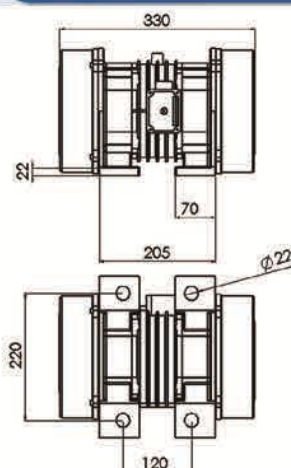
1/4HP-4P

W-425



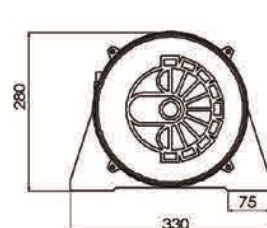
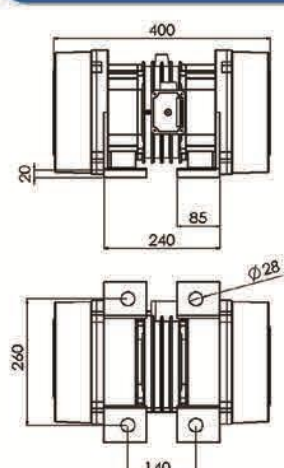
1/3HP-4P

W-440



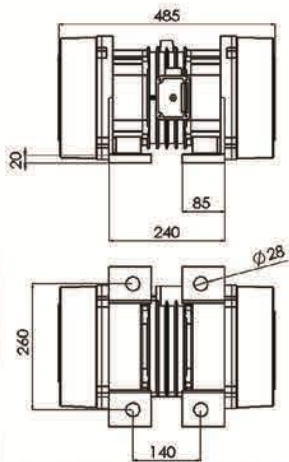
1/2HP-4P

W-475



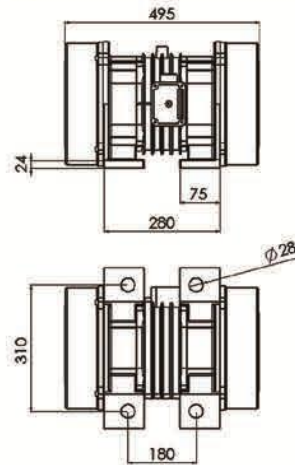
1HP-4P

W-4100



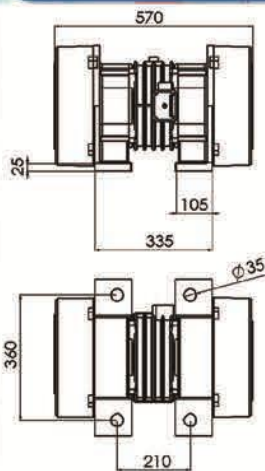
1 1/2HP-4P

W-4150



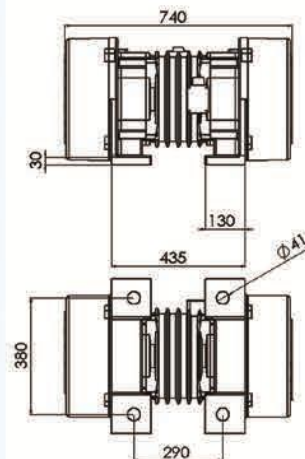
2HP-4P

W-4250



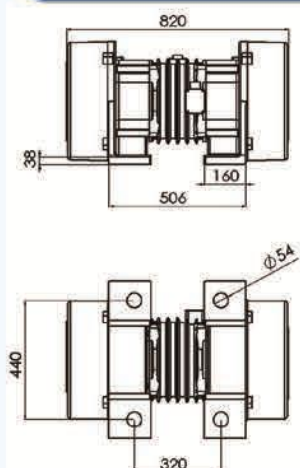
3HP-4P

W-4350



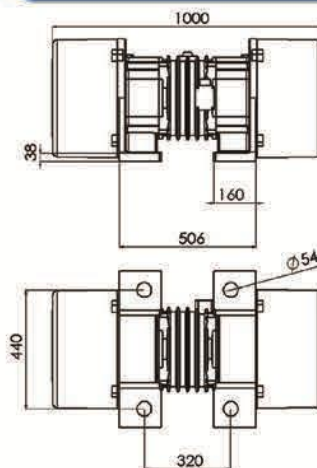
5HP-4P

W-4600



7 1/2HP-4P

W-4700



10HP-4P



6Pole

Vibration
frequency

50 Hz
1000V.P.M

60 Hz
1200V.P.M

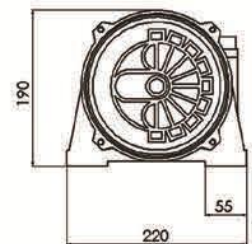
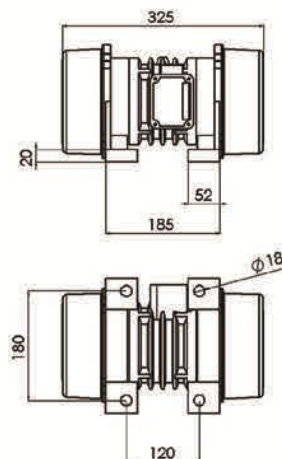
6-Pole Applications

- Anti-bridging vibratory discharge from medium and large hoppers.
- Vertical vibratory cooling and conveying of powders and granules.
- Water-cooled and air-cooled vibratory coolers.
- Foundry shakeout and cooling/screening of reclaimed casting sand.
- Screening food and chemical feedstocks, including plastics, rubber and colloidal materials.
- Vibratory conveying and screening in aggregate plants and mines.
- Medium-distance vibratory conveying of bulk materials.

Model	Power (HP)	Power (W)	Vibratory force (kg)	Weight (kg)
O-630	1/3	250	350	25
O-640	1/2	400	800	48
O-675	1	750	1200	65
O-6100	1 1/2	1120	1800	88
O-6150	2	1500	2500	101
O-6250	3	2200	3800	160
O-6350	5	3700	5000	260
O-6600	7 1/2	5600	7500	430
O-6700	10	7500	10000	540

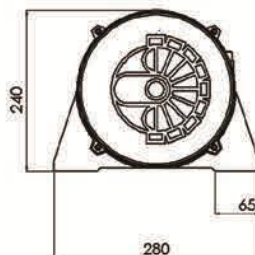
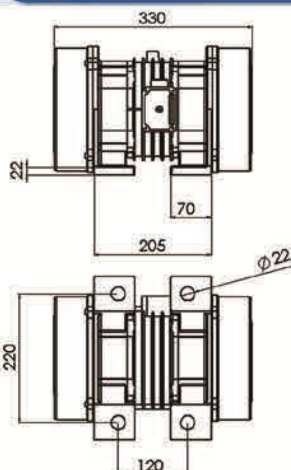


O-630



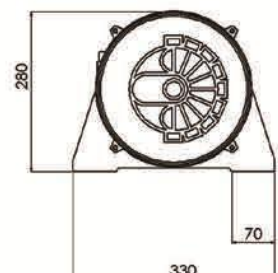
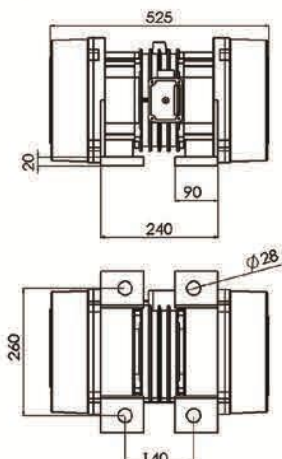
1/3HP-6P

O-640



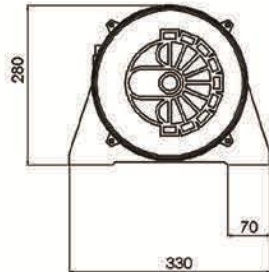
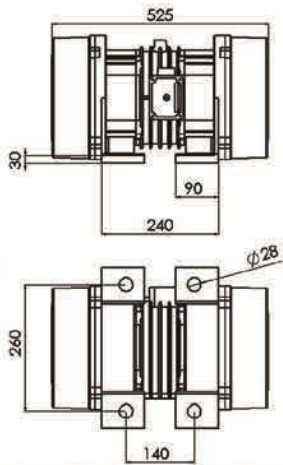
1/2HP-6P

O-675



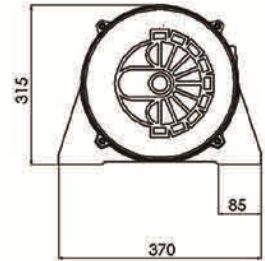
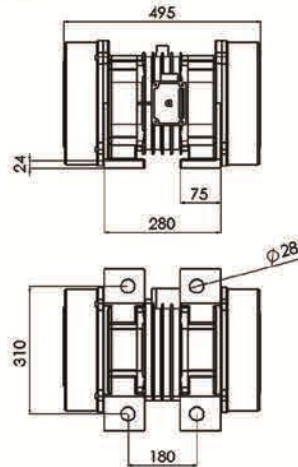
1HP-6P

O-6100



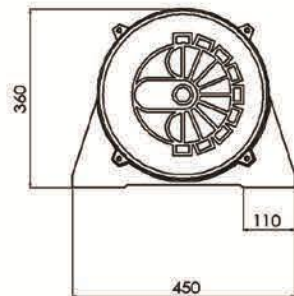
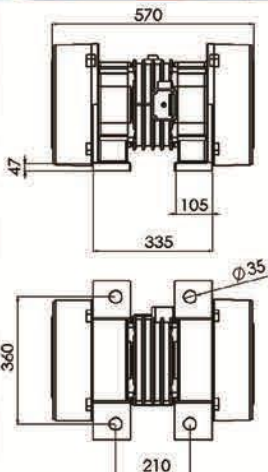
1 1/2HP-6P

O-6150



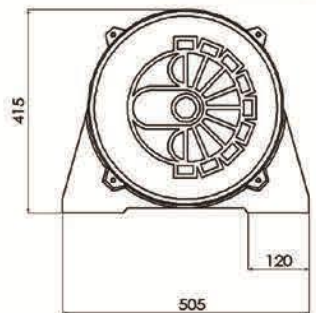
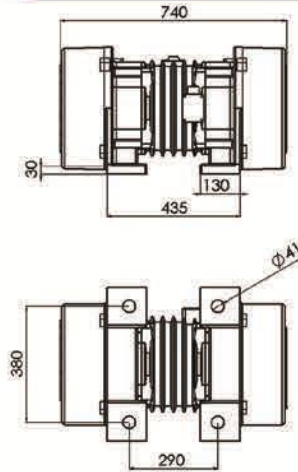
2HP-6P

O-6250



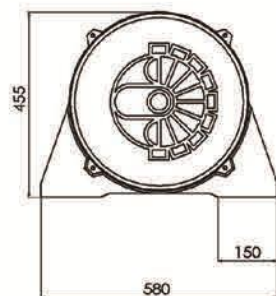
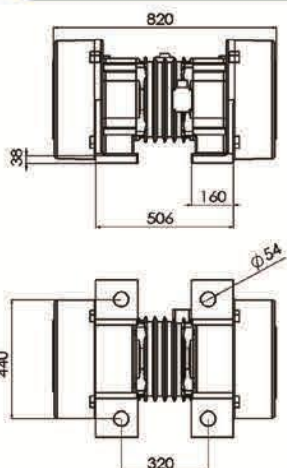
3HP-6P

O-6350



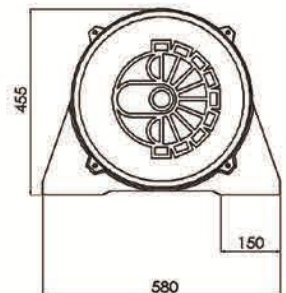
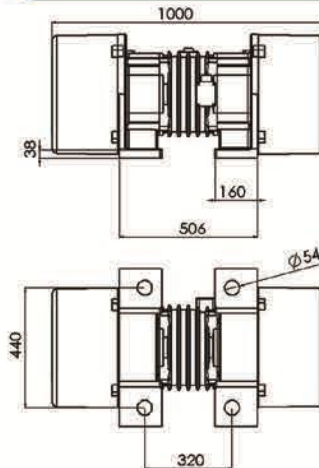
5HP-6P

O-6600



7 1/2HP-6P

O-6700



7 1/2HP-6P



8Pole

Vibration
frequency

50 Hz
750V.P.M

60 Hz
900V.P.M

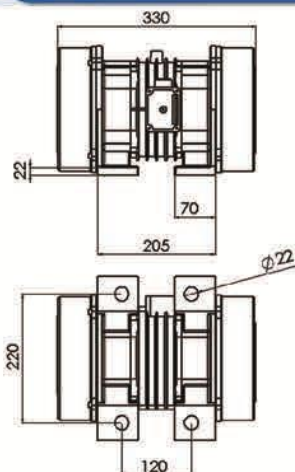
8-Pole Applications

- Large-scale vibratory filling, packaging and conveying.
- Wet screening and vertical vibratory cooling of chemical materials.
- Water-cooled vibratory conveying of hot glass cullet.
- Vibratory drying, cooling and conveying of food and chemical materials.
- Vibratory food washing and screening.
- Long-distance bulk-material conveying (6 m and above).
- Earthquake simulators with adjustable vibration amplitude.
- Low-speed, long-distance conveying of plated parts, castings and similar products.
- Nondestructive vibration testing of large components.



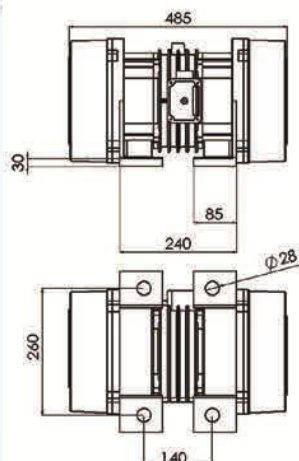
Model	Power (HP)	Power (W)	Vibratory force (kg)	Weight (kg)
Y-840	1/2	400	500	48
Y-875	1	750	1000	88
Y-8100	1 1/2	1120	1400	88
Y-8150	2	1500	2000	101
Y-8250	3	2200	2800	190
Y-8350	5	3700	4500	310
Y-8600	7 1/2	5600	6500	430
Y-8700	10	7500	8500	540

Y-840



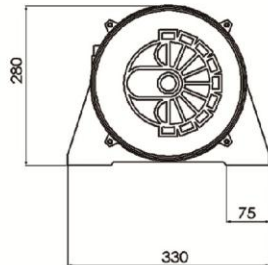
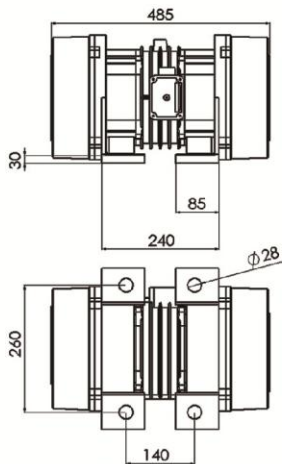
1/2HP-8P

Y-875



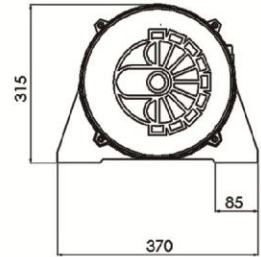
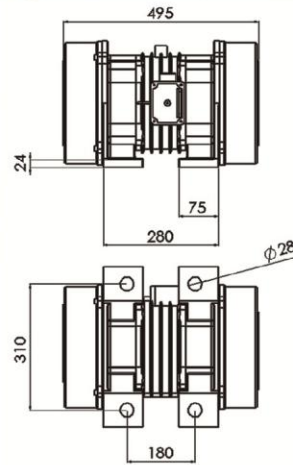
1HP-8P

Y-8100



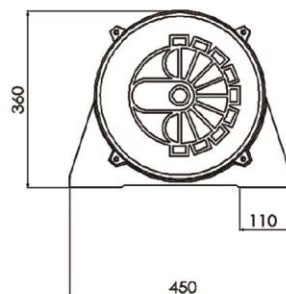
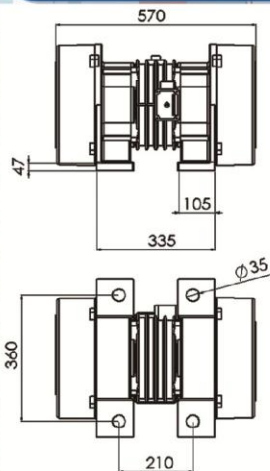
1 1/2HP-8P

Y-8150



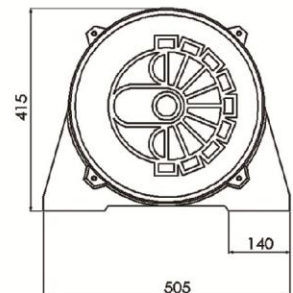
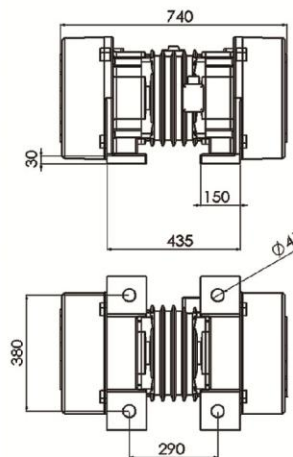
2HP-8P

Y-8250



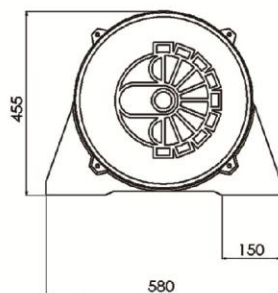
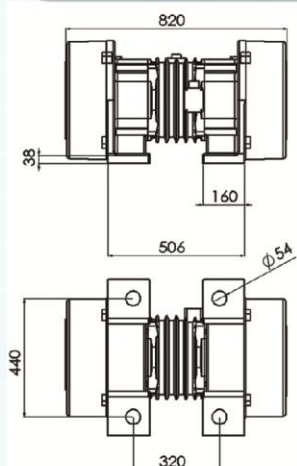
3HP-8P

Y-8350



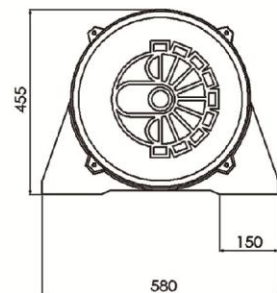
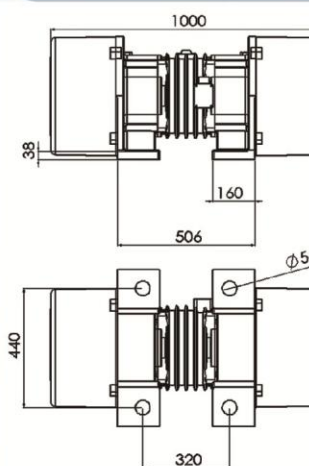
5HP-8P

Y-8600



7 1/2HP-8P

Y-8700



10HP-8P



Vertical Vibration Motors

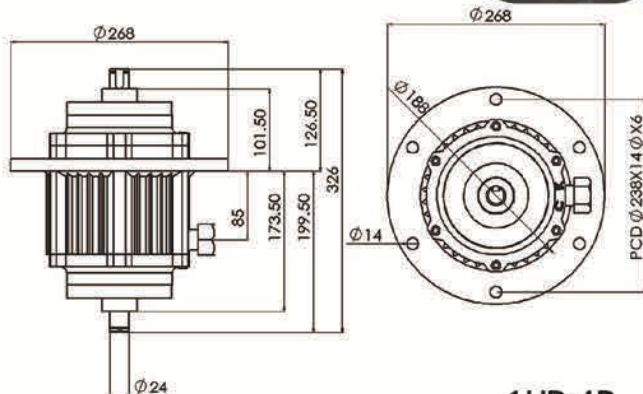
Power range: 1/2-25 HP

Applications

3D vibratory finishing
Circular vibratory screening
Vibratory mixing and blending

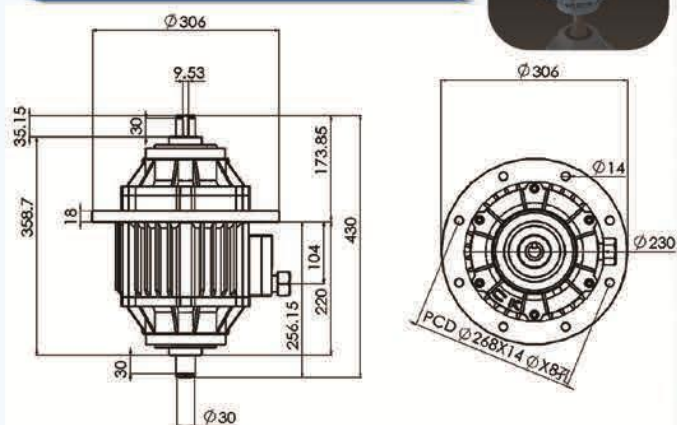


SW-475



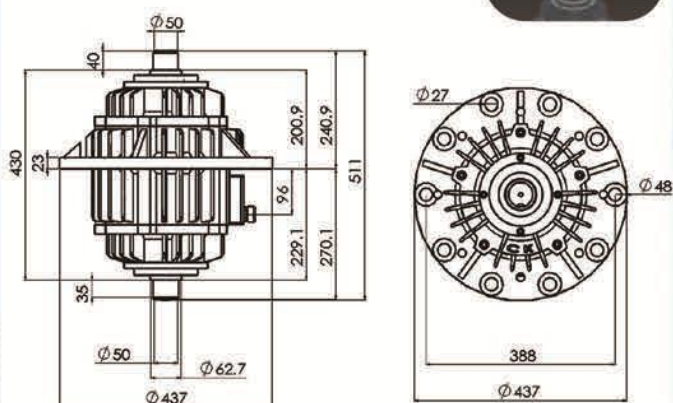
1 HP-4P

SW-4150



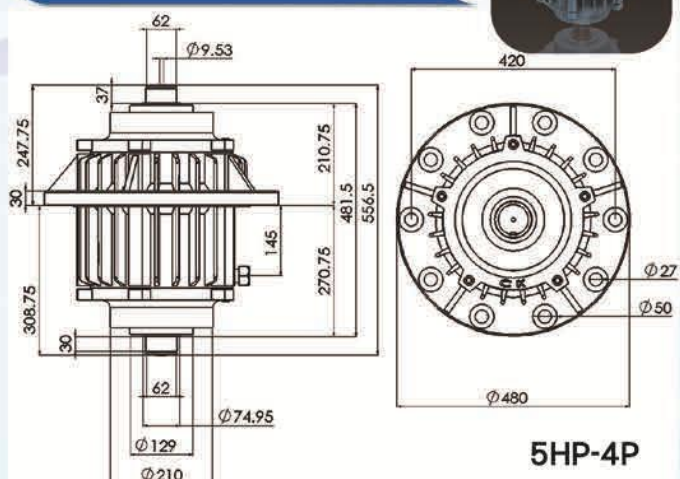
2HP-4P

SW-4250



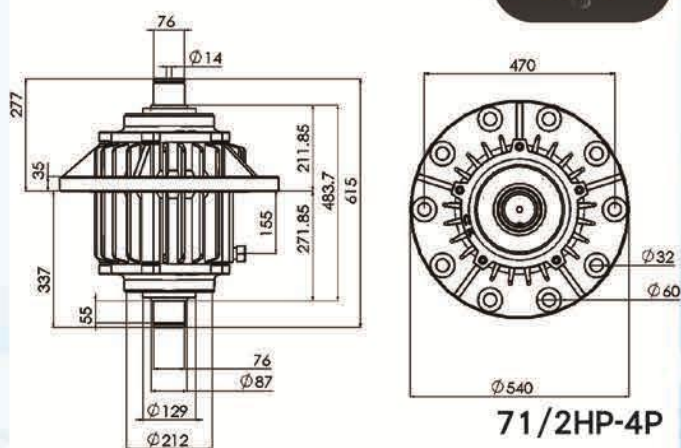
3HP-4P

SW-4350



5HP-4P

SW-4600



71/2HP-4P



Powder & Granule Vibratory Screen



Functions: Conveying, screening, drying and cooling.

Applications: Plastic pellets, rubber, chemicals, food, cosmetics and electronic components.

Features: Low noise; suitable for diverse industrial environments.

Capacity: 100-10,000 kg/hour.

Custom designs available to suit product requirements.



Powder & Granule Screen





Vibrating Tables

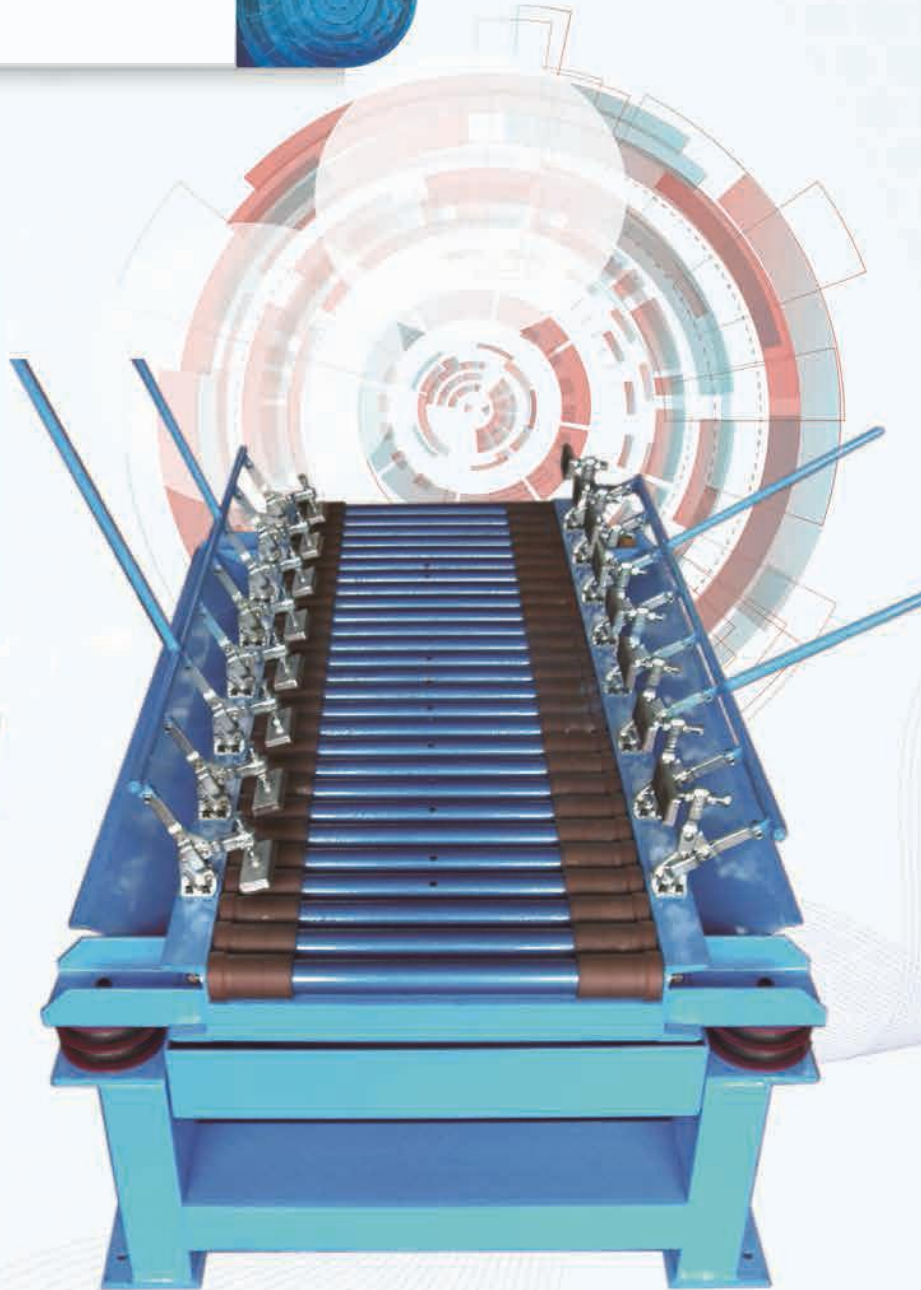


Applications

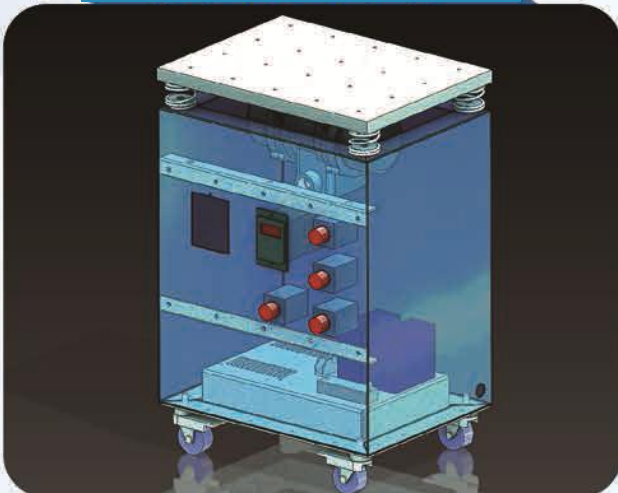
1. Testing electronic and computer components
2. Material filling and compaction
3. Earthquake simulation
4. Testing food and chemical products
5. Nondestructive product vibration testing

Features

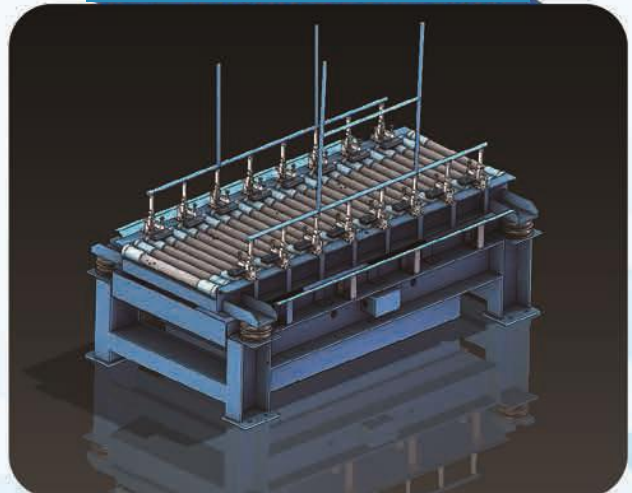
1. Uniform tabletop vibration with minimal lateral movement
2. Stepless vibration-amplitude adjustment
3. Durable construction and low operating noise
4. 24-hour continuous operation; service life over 30,000 hours
5. Tabletop dimensions can be customized



Inertial Vibrating Table



Clamped Vibratory Filler





Vibratory Sand Screen



Function: Separates sand into different size fractions.

Applications: Aggregates and chemicals.

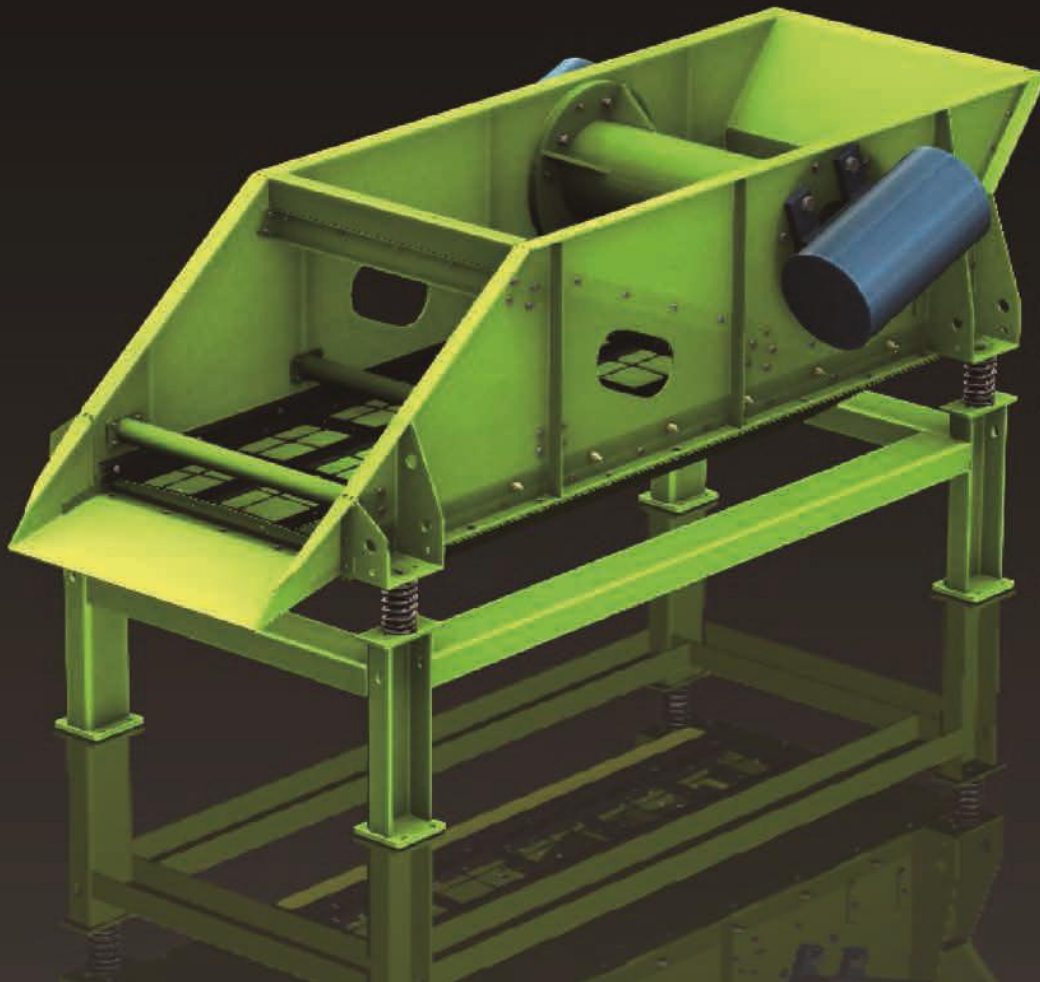
Features: Fully disperses material for efficient screening without buildup. Removable screen mesh allows convenient replacement, reducing downtime. No rubber cleaning balls are required beneath the mesh, greatly extending screen life.

Capacity: 10-100,000 kg/hour.

Custom designs available to suit product requirements.



Vibratory Sand Screen





Standard Vertical Vibratory Separator



Model	Power (HP)	Screen dia. (mm)	Dimensions (mm)	Screen decks	Weight	Construction
-1S			760x520x710	1	78	All parts above the base are made from SUS 304 stainless steel. The base is made from SS 41 steel and finished with multiple coats of anti-rust paint.
CK-500 -2S	3/4HP	Φ 470m/m	670x670x805	2	102	
-3S			760x760x860	3	129	
-1S			850x640x710	1	78	
CK-600 -2S	3/4HP	Φ 560m/m	770x770x840	2	102	
-3S			670x670x970	3	129	
-1S			1140x820x870	1	175	
CK-800 -2S	1HP	Φ 750m/m	990x990x980	2	225	
-3S			1140x1140x1120	3	275	
-1S			1460x1020x885	1	187	
CK-1000-2S	2HP	Φ 950m/m	1210x1210x1095	2	359	
-3S			1460x1460x1230	3	428	
-1S			1530x1220x970	1	385	
CK-1200-2S	2HP	Φ 1150m/m	1450x1450x1160	2	488	
-3S			1530x1530x1330	3	593	
-1S			1890x1520x1100	1	638	
CK-1500-2S	3HP	Φ 1430m/m	1790x1790x1330	2	792	
-3S			1890x1890x1550	3	944	
-1S			2450x1840x1230	1	842	
CK-1800-2S	3HP	Φ 1750m/m	2170x2170x1450	2	1005	
-3S			1850x1850x1680	3	1168	



Concept Machine

D. Screw conveyor

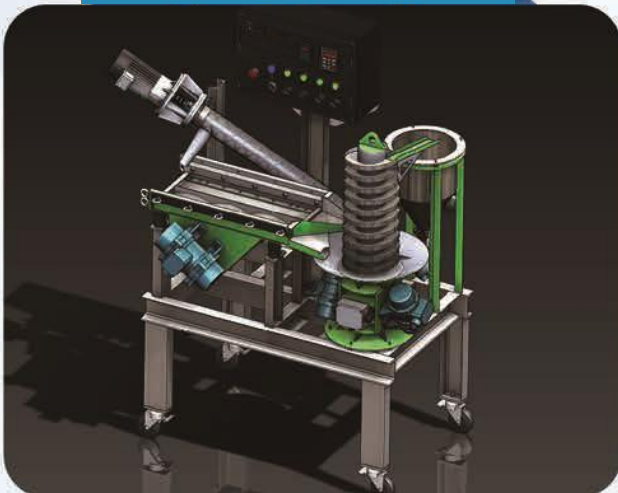
A. Vibratory screen

E. Control panel

C. Storage hopper

B. Vertical vibratory conveyor

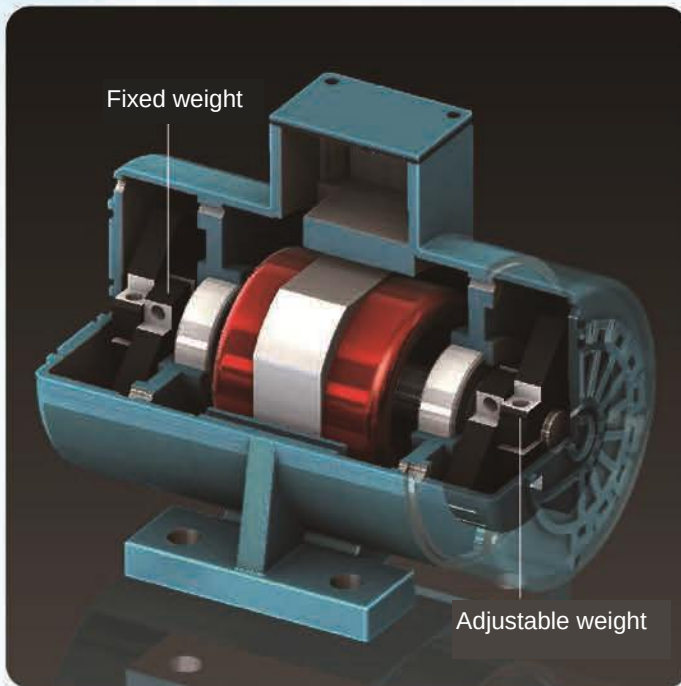
Concept Machine



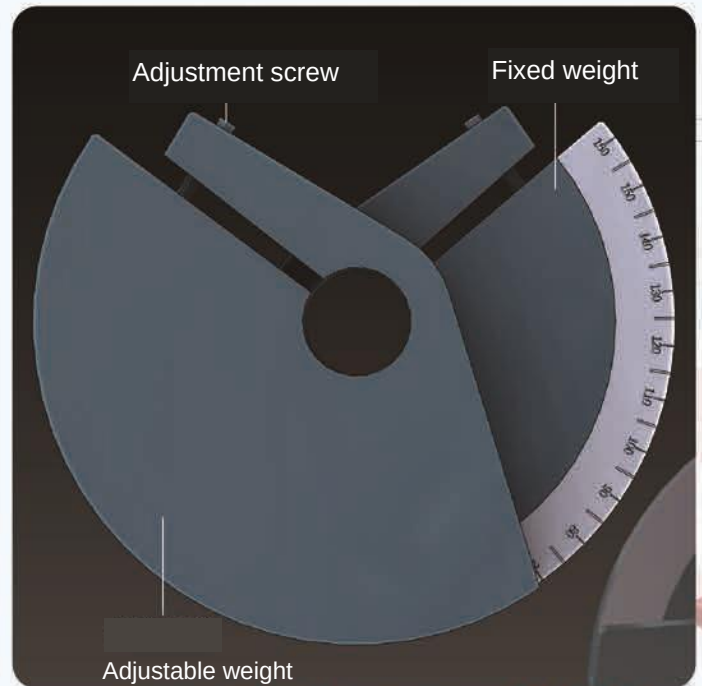


Amplitude Adjustment and Vibratory Force Output

Adjust the angle between the fixed and adjustable eccentric weights at both ends to obtain the required vibratory force, as shown below.



Motor Overview



Weight Detail

Force output (%)	100%	93%	71.5%	40.5%	12.5%
Weight positions (both ends)					
Weight angle	180°	135°	90°	45°	0°



Installation and Adjustment Precautions

1. After adjustment, tighten the weight screws to prevent weights from being thrown off.
2. Set both ends identically to ensure service life.
3. Regularly check mounting bolts and outgoing power leads for secure fastening.
4. Use a mounting base of adequate strength to avoid damage to the vibrating machine.
5. Under normal use, service every 3,000 operating hours.

Applications

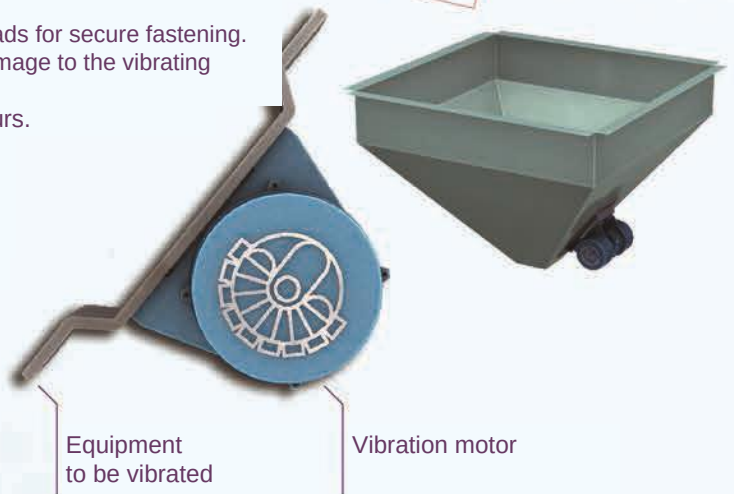
Particularly effective for hopper discharge. Special designs are available to suit site requirements.

Mounting base



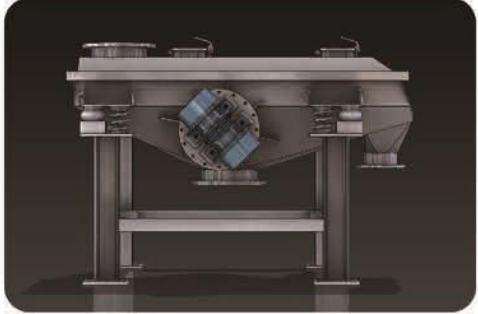
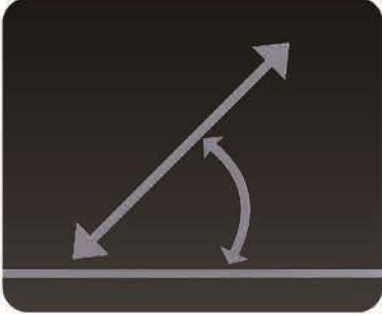
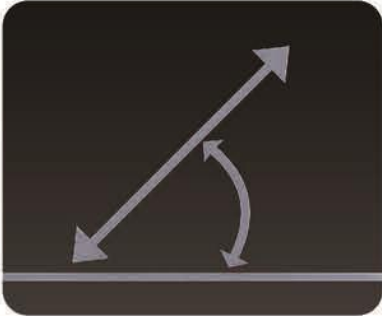
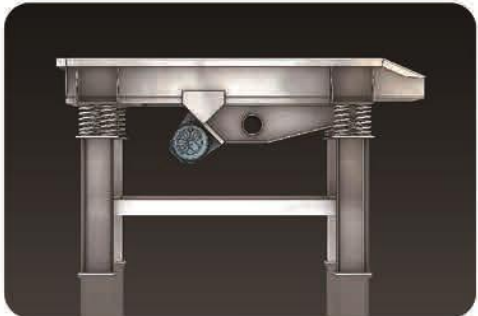
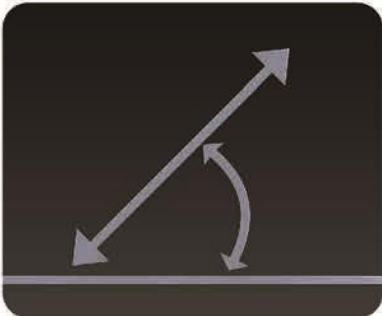
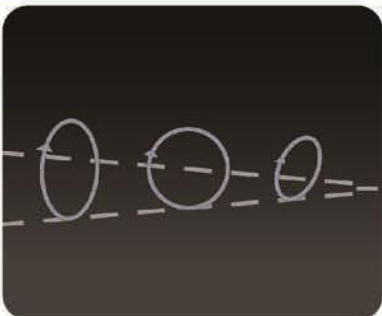
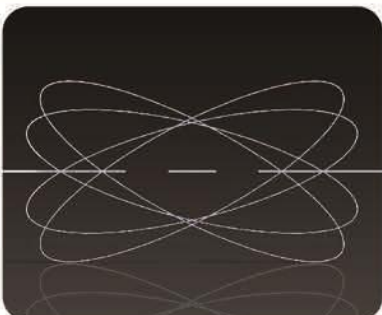
Equipment to be vibrated

Vibration motor





Motor Installation Angle and Vibration Direction

Machine Configuration	Vibration Direction	Application and Operating Principle
		Two vibration motors mounted symmetrically on opposite sides produce linear vibration. Changing the motor installation angle changes the material throw angle to meet the required process conditions.
		Two vibration motors mounted on top drive a machine containing multiple screen decks. This arrangement efficiently separates material into different size fractions.
		This motor arrangement can produce resonant vibration. Variable-frequency control allows the feed rate and vibration amplitude to be adjusted freely. It is particularly suitable for food and chemical applications.
		A single vibration motor installed beneath the machine produces circular motion for screening and conveying. Adjusting the machine inclination changes its operating characteristics.
		A vertical vibration motor generates three-dimensional screen motion for efficient separation of fine powders and granules without screen blinding. This arrangement can also be used for wet screening.



Kuo Yang Machine Industrial Co., Ltd.

No. 109, Huacheng Rd., Xinzhuang Dist.,
New Taipei City, Taiwan

Tel: 886-02-2996-4828 / 886-02-2998-8047-8

Fax: 886-02-2991-9713 · Business ID: 23967600

Email: kuoyang.u5298@msa.hinet.net

<http://www.k-yang.com.tw>

Shang Qi Automation Equipment Co., Ltd.

Room 1206, Building 3, Phase 3, First International,
Nancheng District, Dongguan, Guangdong, China
Tel: 0769-2168-2589 · Fax: 0769-2168-2581