

▶ Electromagnetic Vibrating Feeder

Principle

The feeding process of the electromagnetic vibrating feeder is realized by the periodic reciprocating motion of the feeding tank along the tilt direction driven by the electromagnetic vibrator. When the vertical component of the acceleration generated by the vibration of the feeder is greater than the acceleration of gravity, the materials in tank will be thrown up, and carry on the jumping motion forward in accordance with the parabola track. The whole process completes within 1/5 seconds. Every vibration of the feeder can cause every forward jumping of the materials thrown up. In this way, the vibration of the tank with the frequency of 3000 times per minute drives the materials thrown up to jump forward correspondingly, and makes them move forward evenly and continuously so as to realize the feeding.



Features

Simple structure, uniform feeding, good continuous performance, adjustable exciting force; change and control flow at any time with convenient operation; the eccentric block as the excitation source has the features of low noise, less power consumption, good regulation performance, and nonexistence of material clashing; the enclosed body can prevent dust pollution with stable vibration, reliable operation and long service life; the vibration force can be adjusted, and the flow can be changed and controlled at any time, which is convenient and stable; the vibration motor as the excitation source has the features of low noise, less power consumption, good regulation performance, and nonexistence of material clashing; simple structure, reliable operation, convenient adjustment and installation, light weight, small volume, convenient maintenance, and dust pollution prevention when enclosed structure body is used.

Application

It can be widely used in the industries of mining, metallurgy, coal, building materials, light, chemical, electric power, machinery, food, etc., and for feeding the materials in block particle shape and powdery ones uniformly and continuously or quantitatively into the feeding device from the ore bin or hopper, also for automatic batching, quantitative packaging, etc. In addition, it can be applied in the automatic control process to realize the automation of production process.

Technical Parameters

Model	Tank Dimension (L×W×H) (mm)	Feed Size (mm)	Horizontal Feed Amount (t/h)	Feed Amount (t/h)	Power (kW)	Overall Dimension (L×W×H) (mm)	Weight (kg)
GZ1	600×200×100	50	5	7	0.06	910×376×485	80
GZ2	800×300×120		10	14	0.15	1175×608×600	165.5
GZ3	900×400×150	75	25	35	0.2	1325×578×675	223
GZ4	1100×500×200	100	50	70	0.45	1616×762×814	462
GZ5	1200×700×250	150	100	140	0.65	1815×840×980	656
GZ6	1600×900×250	200	150	210	1.5	2410×10925×1500	1252
GZ7	1800×1100×250	250	250	350	3	2800×1330×1710	2017
GZ8	2200×1300×300	300	400	560	4	3302×1556×1995	3153
GZ9	2400×1500×300	350	600	840	5.5	3515×1776×2200	3750
GZ10	2500×1800×375	500	750	1050	4×2	3630×2500×2235	6491
GZ11	2800×2000×375		1000	1400	5.5×2	4060×2640×2919	7680
GZ12	3000×2200×400		1200	1500	15	5260×2860×2563	8840
GZ13	3200×2500×450		1300	1600		6394×3040×2864	9920
GZ14	3500×2500×450		550	1500	1700	18.5	7475×3802×3000