

vibrating feeder



■ Application

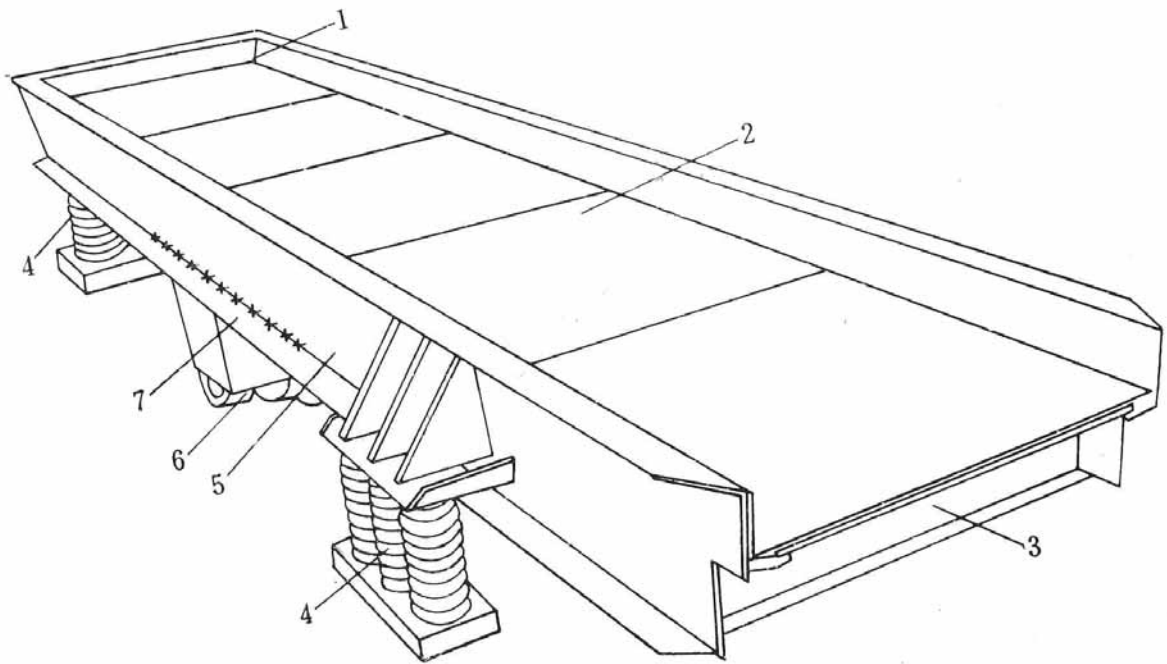
The vibrating feeder is used to transfer the large size materials and granular materials from hopper to receiving device uniformly, periodically and continuously in the production flow and to feed materials into the crusher continuously and uniformly also to screen the materials in the sandstone production line. It is widely used to match the crushing and sieving equipments in many industries including metallurgy, coal mine, mineral dressing, building material, chemical, grinding, etc.



Electromagnetic vibrating feeder is a new-type quantity-fixing feeding equipment which can meet the need of continuous production, so it is widely used in metallurgy, chemical industry, coal, construction, light industry, food, medicine, etc.

Electromagnetic vibrating feeder can act as the material feeding equipment to feed sticky or powder materials for cement mill, belt conveyor, bucket elevator, crushers, pulverizer and other industrial fields.





Loop of the electromagnetic vibrator is power supplied with a single-phase AC source rectified by controllable silicon. When controllable silicon put through at the positive cycle, impulse current put through the hoop, the space between the iron core and gag bit generates impulse electromagnetic force which attracts each other, the groove moves backwards. While at negative cyclone, there is no electricity in the loop, the electromagnetic force disappears; the gag bit moves away from the iron core with the potential energy deposited at the positive cycle, the groove thus moves forward. In this way, the groove move back and forth at the frequency of AC (ω). The groove bottom and vibrating force forms a 20° angle, so materials in the groove moves forward like a parabola. The raising and falling of material is finished within $1/50$ seconds, so it looks like that material moves continuously and consistently.



Amplitude of the groove is related to the current through electromagnetic vibrator and the self-vibrating amplitude of the feeder (W_0). According to the Syntony Principal of mechanical vibration, when the W/W_0 ratio is between 0.85—0.9, machine will run in stable with lower energy consumption, so please try to make it.

Characteristics

- Feeding evenly, the capacity easily be adjusted, easy to control automatically.
- No return parts, easy to maintenance, no need to be lubricated, little abrasion because the materials go ahead leaping like a parabola, no need to use electromotor reducer, so it is oil-saving and electricity-saving and low maintain cost.
- Capable to transport hot materials below 300°C .



- Check that whether there are loosening or falling bolts periodically.
- Check that whether the gap has been changed, dusts stored and spring board cracked.
- Always keep a certain amount of materials in the hopper, do not make it empty. Falling materials should not strike the stuff groove.



Model	Feed chute size (mm)	Max. feeding size (mm)	Handling capacity (t/h)	Power (kW)	Overall dimension (mm)	Weight (including motor) (kgs)
GZD-960×3800	960×3800	500	120-210	11	3880×2240×1880	3980
GZD-1100×4200	1100×4200	580	200-430	15	4300×2450×2010	4170
GZD-1100×4900	1100×4900	580	280-500	15	4980×2450×2030	4520
GZD-1300×4900	1300×4900	650	450-600	22	4980×2705×2050	5200

Notice: Any change of Vibrating Feeder technical data shall not be advised additionally.



Screening & Washing

Sand Washing Machine
Circular Vibrating Screen

Feeding & Conveying

Belt Conveyer
Vibrating Feeder

Crushing

Jaw Crusher
Impact Crusher
Hammer Crusher
Spring Cone Crusher
Hydraulic Cone Crusher
VSI Sand Making Machine
PCL Sand Making Machine
European Type Jaw Crusher
PYS Symons Cone Crusher
Mobile Crushing & Screening Plant

Grinding Plant

Ball Mill
Raymond Mill
High Pressure Suspension Mill
MSB series Coarse Powder Mill
Super Pressure Trapezium Grinding Mill
HGM Three-Rings & Medium-Speed MicroPowder Mill

New Production Technics

Grinding Production Line
Sand Making & Washing Plants
Stone Crushing & Screening Plants
Manufactured Sand Processing Chart
Construction Waste Crushing Technics
Basalt Aggregate for Express Highway Processing Technics

Pious / elaborate / rigorous / harmonious

- **20 Years Experiences**
- **high quality products**
- **Professional Liming Teams**
- **high reputation**
- **Competitive price**
- **King-like customer service**

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