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External concrete vibrator

Keywords: external concrete vibrator,Pneumatic external vibrator

External concrete vibrator can be divided into normal concrete vibrators, GZF150 High-frequency quickly-fix external vibrators and DBP series high-frequency power complete equipment and Pneumatic external vibrators used for plastic, semi-plastic, semidry, and dry concrete, road, bridge and power worksite etc.

Three types of external concrete vibrators application

Normal concrete vibrator are widely used in the vibration of plastic, semi-plastic, semidry, and dry concrete, suitable tools for the concrete cast of slabs, road surface, ground and roofing in buildings. They can also be used as vibrating source of vibrating apparatus.

High-frequency quickly-fix external vibrators are mainly used in the manufacture of the large concrete prefabricated components, such as the construction of the road, rail way, bridge, culvert concrete, especially the construction of T simply supported beam, I-beam and box-beam.

Pneumatic external vibrators are widely used in water conservancy and power worksite, high-rise construction, mining, underground buildings and roads, railways, bridges with beams, T-beams and precast plants and other large precast concrete vibration chamber work,

External concrete vibrator images



Normal concrete vibrator



high-frequency vibrator



Pneumatic external vibrators

External concrete vibrator application is similar to poker concrete vibrators, but there are some difference between them. As below, introducing concrete vibrators features and technical specifications. Except these design, we also produce this machine in accordance customer's requirement.

concrete mixer



batching plants



concrete trucks



trailer pump



gunite machine



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Normal External concrete vibrator features

1. Models: ZJY20, ZW5, ZW10, ZW220, ZW20, ZW5A, ZW10B, ZF1, ZF150A
- 2.Type ZJY20 vibrator is designed against extrusion molding press, which makes the pre-stressed hollow floor slabs. It can continuously operate for a long time.
3. Uses special vibrating motor with unique eccentric structure
4. The exciting force can be adjusted for the construction situation

Normal External concrete vibrator technical parameters

Type	Unit	ZW5	ZW10	ZF220	ZW20	ZJY20	ZW5A	ZW10B	ZF1	ZF150A
Motor power	Kw	0.8	1.1	2.2	3	2	0.8	1.1	0.12	1.5
Voltage	V	380	380	380	380	380	380	380	380	380
Supply freq.	HZ	50	50	50	50	50	50	50	50	50
Vibration freq.	HZ	48	48	48	48	48	48	48	47	48
Exciting force	N	4200	9200	11000	15000	14000	3000	6700	500	9200
No-load amplitude	mm	1.5	2.3	2.0	1.8	1.9	1.5	2.3	0.6	2.0
Phase	Ph.	3	3	3	3	3	3	3	3	3
Electric current	A	1.74	2.45	4.6	4	4	1.74	2.45	0.372	3.3
Weight	Kg	35	44	55	90	83	35	44	9	52

High-frequency quickly-fix external vibrators features

1. It has the functions of preventing input phase short, input under-voltage, DC overvoltage, over current, over load and overheat by using electronic frequency conversion.
2. It can markedly reduce the damage of the formwork with the high frequency and low amplitude vibration.
3. The small size, light weight, convenient assemble and disassemble make it especially usable on the large formwork

High-frequency quickly-fix external vibrators features

Type	Exciting force (KV)	Vibration freq. (HZ)	amplitude (mm)	Supply motor (Ph./HZ/V)	Power (Kw)	Weight (Kg)	Dimension (mm)
GZF150	12	150	0.8	3/150 / 380	1.5	19	ø150xL240

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Pneumatic external vibrators features

1. Reducing the clotting time of concrete, improving the strength, but also can be installed on a variety of vibration devices as a vibrating source
2. The frequency and the exciting force are adjustable.
3. It has no danger of explosive in the gas place, meanwhile no influence in harsh environments such as high temperature.
4. It has overload protection, without failure due to overload.
5. It has a high starting torque, can directly start in the condition of load.
6. It has strong water resistance, not afraid of moisture.
7. With a diesel engine, it can be operated in the construction areas without electricity.
8. No bearing can reduce routine maintenance and avoid bearing wear problems at high speed operating conditions.
9. High-frequency vibration source device is the only product, which obtained the patent for invention in domestic market.

Pneumatic external vibrators technical data

Type	Exciting Force (KN)	Amplitude (mm)	Freq. (HZ)	Air Consumption (L/min)	Pressure (bar)	Operating Freq. (rpm)	Inlet pipe dia. (mm)	Weight (kg)
QWZ2500	25	1.2	217	1.45	6	13000	Φ16×Φ26	15
QWZ4000	40	2.1	250	1.63	6	15000	Φ16×Φ26	15.8

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