

Belt type concrete batching plant

Introduction of [Belt type concrete batching plant](#)

HAOMEI HZS series belt type concrete batching plant includes HZS60 (60m³/h) concrete mixing plant, HZS90 (90m³/h) concrete batch plant, HZS120 (120m³/h) concrete batch plant, HZS180 (180m³/h) concrete batch plant, etc. If you use belt conveyor to feed aggregates into the mixer continuously, the mixing efficiency is highly improved.

Belt type concrete batching plant is continuous forced concrete batching station, which is comprised of six major systems. Six major systems include: mixing system, weighing and control system, cement system, aggregate feeding system, aggregate batching system, control system.



<http://haomei.biz/products/Concrete-batching-plant/2432-Concrete-batching-plant.html>

Details about six major systems:

1. Mixing system of belt type cement batching plant: the mixer of concrete batching plant uses JS series horizontal double shaft concrete mixer for high quality of mixing, short mixing time and long service life.

2. Weighing and control system of concrete batching plant: it adopts new-deign electrical weighing system and is equipped with buffered device and auto-add function to make sure the accuracy and timeliness of measurement.
3. Cement system of cement batching plant: it used for plated cement silo and screw conveyor, which is easy to install and has well seal performance and long service life. The cement is transited from cement silo to mixer through screw conveyor.
4. Aggregate feeding system of belt conveyor concrete batching plant: the aggregate is delivered to mixer by belt conveyor, which ensures continuous aggregate feeding. The system has ladder for worker to take maintenance.
5. Aggregate batching system of belt type cement batching plant: it uses separate storage bins and weighing hoppers to make sure accurate feeding and production.
6. Control system of belt type cement batching plant: it uses computer to control production both automatically and manually. So it is easy to operate. From the start to the end of production: batching, mixing, propulsion and discharging is continuous.

Features of Belt type concrete batching plant

1. Reliability: nearly 30 years of experiences in manufacturing concrete batch plant;
2. Accurate weighing system (aggregate, cement, water, additive).
3. Double shaft forced mixer, excellent mixing performance with high efficiency;
4. Excellent environmental protection, dust collection system and anti-noise design.
5. PC+PLC control, vivid display on the screen, convenient to revise, save or print the data.

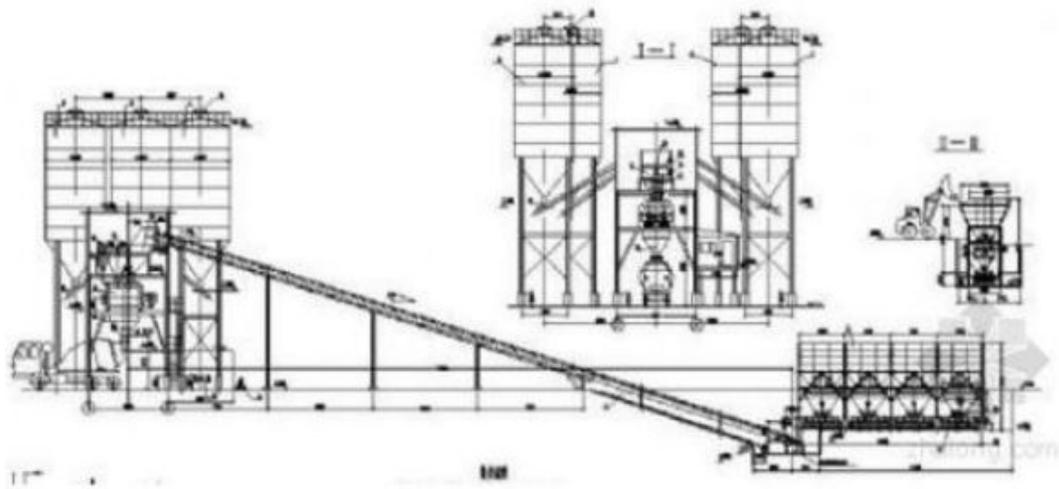
Application of Belt Type Concrete Batch Plant

HAOMEI HZS series belt type concrete mixing plants are widely used to produce various kinds of concrete including quaking concrete and hard concrete. This China concrete mixing plant is suitable for large or medium scale building works, road and bridge works and precast concrete, etc.

In addition, we especially have concrete batch plant for sale and we focus greatly on our products quality. If you are interested in any of our production, please contact us. We are looking forward to establish business relationship between us based on our mutual benefits.

Type	HZS60	HZS90	HZS120	HZS180
Productivity (square / hour)	45~60	70~90	100~120	150~180
Mixer Type	JS1000	JS1500	JS2000	JS3000
Mixing Capacity (cubic)	1	1.5	2	3
Stone scale (kg)	1000	1500	2000	3500
Sand scale (kg)	1000	1500	2000	3500
Cement scale (kg)	600	800	1200	1500
Coal ash scale, mineral powderscale (kg)	300	450	600	800
Additive scale (kg)	20	30	50	80
Water scale (kg)	300	500	800	1000
Belt width (mm)	650	650	800	1000
Total power	130kw	170kw	220kw	280kw

General layout of **Belt type concrete batching plant**



Working principle of **Belt type concrete batching plant**

Concrete batching plant has 4 main parts: Material feeding, Material measurement, Concrete mixing and whole plant control system.

The working procedure of automatic control system is:

1. Turn on control software, login to operation interface;
2. Set or access working parameters of concrete production, such as recipe number, concrete grade, slump, total production volume, etc.
3. Start production;

4. The software/PLC will give signal to each part of the plant, to finish the material feeding, measurement, loading into the concrete mixer, mixing and discharging;

5. If there are some problems during production, the software will detect the error and light up alarm lamp on computer screen or indicator display, so that the operator can stop the production till problems solved.

6. Regarding to the material feeding, the various of electric motors, butterfly valves and load cells will work automatically according to digital signal;

7. High-pressure air system will provide enough driving force for each unloading gates, such as aggregate bins, butterfly valve of scale hoppers, concrete mixer discharging gate, etc.

8. The software will control the whole system continuously produce concrete till the set-volume finished production, unless emergency stop or turn to Manual style.



Main configuration and description of haomei Concrete Batching Plant (Belt type)

Model	HZS60	HZS90	HZS120	HZS150	HZS180
Capacity	60m ³ /h	90m ³ /h	120m ³ /h	150m ³ /h	180m ³ /h
Mixing system	Twin-shaft concrete mixer				
Aggregate feeder	Belt conveyor				
Discharging height	3900mm	3900mm	3900mm	4000mm	4000mm
After-sale service	Erection & commissioning, operator training				
Warranty	12 months after erection				
Concrete mixer	YJS1000	YJS1500/ SICOMA MA02250/150 0	YJS2000/ SICOMA MA03000/200 0	YJS3000/ SICOMA MA04500/300 0	SICOMA MA06000/400 0
Discharging volume	1000L	1500L	2000L	3000L	4000L
Charging volume	1500L	2250L	3000L	4500L	6000L
Mixing cycle	60s	60s	60s	60s	60s
Max. mixing size	100/80mm	100/80mm	100/80mm	120/80mm	120/80mm

Aggregate batching machine	PLD2400/ PLD1600	PLD2400	PLD3200	PLD4800	PLD4800
Storage bins quantity	3 or 4 sorts	4 sorts	4 sorts	4 sorts	4 sorts
Aggregate scale hopper	2400L/1600 L	2400L	3200L	4800L	4800L
Aggregate feeding to mixer by	Belt conveyor				
Measurement precision	±2%	±2%	±2%	±2%	±2%
Weighing system Principle	Force sensor (Load Cell)				
Water weighing precision	±1%	±1%	±1%	±1%	±1%
Cement weighing precision	±1%	±1%	±1%	±1%	±1%
Additive weighing precision	±1%	±1%	±1%	±1%	±1%
Fly ash weighing precision	Optional Parts		±1%	±1%	±1%
Control system Type	Computer auto-control				
Control panel board	Button, lamps, indicators, etc				
PLC brand	SIEMENS/SCHNEIDER				
Electric components	Relays, contactors, etc				
Control cabin	≈6m ²	≈9m ²	≈10m ²	≈12m ²	≈12m ²
Air conditioner	1 unit	1 unit	1 unit	1 unit	1 unit
Printer brand	OKI/PANASONIC/EPSON				
Computer with control	1 unit	1 unit	1 unit	1 unit	1 unit

software					
Industrial monitor system	Optional parts		1 set	1 set	1 set
Uninterrupted Power Supply (U. P. S)	Optional parts		1 set	1 set	1 set
High-pressure air system					
	1 set				
Air compressor	0.6MPa	0.8MPa	1.0MPa	1.0MPa	2.0MPa
Oil-water separator	1 unit	2 units	2 units	2 units	2 units
Solenoid valve	2 sets	2 sets	2 sets	2 sets	2 sets
Air tank		1 unit	1 unit	1 unit	1 unit
Documentation					
Spare Parts	1 set	1 set	1 set	1 set	1 set
Concrete Foundation Design	1 unit	1 unit	1 unit	1 unit	1 unit
Operation Guide	1 unit	1 unit	1 unit	1 unit	1 unit
Maintenance Guide	1 unit	1 unit	1 unit	1 unit	1 unit
Electrical Diagram	1 unit	1 unit	1 unit	1 unit	1 unit
Cement storage and feeding system					
	Optional parts				
Screw conveyor diameter	Ø219mm/ Ø 273mm	Ø273mm	Ø273mm/ Ø325mm	Ø273mm/ Ø325mm	Ø273mm/ Ø325mm
Cement silo capacity	50t/100t	100t	100t/200t	100t/200t	100t/200t
Outer plant pack except belt &					
	Optional parts			Assemble	Assemble

aggregate bins					
Material & Description	Laminboard, thickness: 50-75mm				
Dust collector	1 set				
External color painted	WHITE (or designed by clients)				
Axial flow fan	1 unit	1 unit	2 units	2 units	2 units
Doors & Windows	1 set				

The above parameters of concrete batching plant are subject to change without prior notice, please refer to the actual products

Installation Preparations what **Belt type** concrete batching plant

concrete batching Plant installation is the greatest guarantee the safe use later, so preparatory work prior to installation we also need to do the full job, then how will the concrete mixing station installation to maximize the potential, we must do the rational and bar below haomei to resolve concrete mixing station preparations have?

- 1, the first given by the manufacturer in accordance with the concrete batching Plant installation foundation plans, and prepare the ground and embedded. Installed base must be solid, consistent architectural design specifications.
- 2, good planning construction of access roads, temporary schwing concrete placing booms bridge, wharf and stockpiling area, and undertake leveling, not only did water, electricity, land leveling.
- 3, assembly concrete batching Plants hoisting equipment, such as cranes, tower vehicles, the installation process is not only to choose the right position, the more important is that we must use professional operators to install.
- 4, concrete batching Plantis mainly responsible positions in their own due diligence to ensure that every job acceptance, the only way to ensure safe and efficient work. Security is no small matter concrete mixing station, so we must not relax, only to lay a good foundation for a solid backing, so in order to produce efficiently must be taken seriously for each job.



To install a concrete batching plant correctly is very important to productivity of concrete batching plant. Here are some installation steps to install a concrete batching plant

Installation steps of **Belt type concrete batching plant**

- (1) Installation of finished material adhesive tape conveyor Expand finished material adhesive tape conveyor at its bends and then put frame on the base. Next, link legs with conveyor as well as the bracing piece and lifting lug. Thirdly, lift the front of conveyor and like legs and bracing piece well. Finally, fasten anchor bolt of legs well.
- (2) Installation of host and powder batching system Sling the rack of host and put it on the base. Then fasten its anchor bolt.
- (3) Installation of storage bin Sling storage bin and rise up legs. Link walking board, ladder and storage bin well.
- (4) Installation of aggregate dosing machine sling aggregate dosing machine to put it on the base. Link blank as well as heightening plate and blank. Next, expand aggregate conveyor. Link rack to make motorized pulley align cover hole center of concrete mixer. Finally, fasten anchor bolt.
- (5) Installation of cement silo Assemble all parts of cement silo well on the ground and then lift cement silo. Make support of it orient to power batching system and then fasten it. In the end, fasten anchor bolt.

- (6) Installation of screw conveyor Sling screw conveyor. Link spherical hinge of screw conveyor and discharging outlet of cement silo well to make discharging outlet align feeding inlet. Then link conveyor and lifting lug of cement silo by steel wire rope. Finally, fasten anchor bolt.
- (7) Lift water pump to a proper position and link output pipe well.
- (8) Put air compressor at one side of storage bin. Link exit of air compressor with entrance of gas control box. Lead exit of gas control box to air tube of cement silo.



After completion of the **Belt type concrete batching plant** produce what issues need attention

concrete batching plant will be some unforeseen problems in production, it requires staff each position must be serious and responsible, to ensure that the production of some minor problems can be solved in time, but after the completion of production requires concrete batching station clean-up work, so as to ensure the efficient production next. So today we take a look at the concrete batching plant After production problems which need attention.

- 1, frozen season, was completed pump should be exhausted, additional coolant pump, water tank, additional agent tank, water, additives in the pipeline residual water, additives to prevent damage to Diesel concrete pump the pump and tubing, and start the pump additional coolant pump operate for 1-2 minutes.

- 2, clean the batching tank inside and outside wall fouling, the discharge mouth, concrete residue agitator shaft and discharge door, where rinse with water, if necessary, add a small amount of stone and water, stirring for several minutes release. Water for washing cars, and for the additional agent tank system.
- 3, the lubrication points are located out door shaft mixer, each hopper and weighing Doumen shaft, tape transport, machine roller, roller, roller bearings, drive chains, screw shaft, the lower bearing and host large gear, etc.
- 4, adjusted when checking blades, scraper, stirring arms and other necessary clearance for wear or replaced; vibrators without loosening bolts; check the electrical contact device; static and dynamic contact relay damage and burnout. These are concrete batching plant production work after the completion of the inspection and maintenance issues, although more complicated, but we must make these basic smooth production work can only be assured of.

packing & shipping

Belt type concrete batching plant Packaging

Details:

the host machine and other steel frame structure packed nakedly in the container; the electric items and installation components packed with strong and standard wooden packages. A wooden-box with the size of 60cm*60cm*60cm will be used for small items like bolt, nut, screw etc.

- 1. Container guarantee to not be damaged at the shipping.
- 2. Protective Packaging
- 3. Protective packaging according to the characteristics of the products. Packages after the water spray test, no water leakage.
- 4. Proof packaging Take the necessary measures moisture proof packaging goods.
- 5. Rust-proof packaging Products sealed with rust-proof material has a very good rust resistance, easy to remove







shipping:

by sea or by train; we have rich experience of shipping by sea or by train;



<http://haomei.biz/products/mobile-concrete-mixing-plants/250-mobile-concrete-mixing-plants.html>

About Haomei

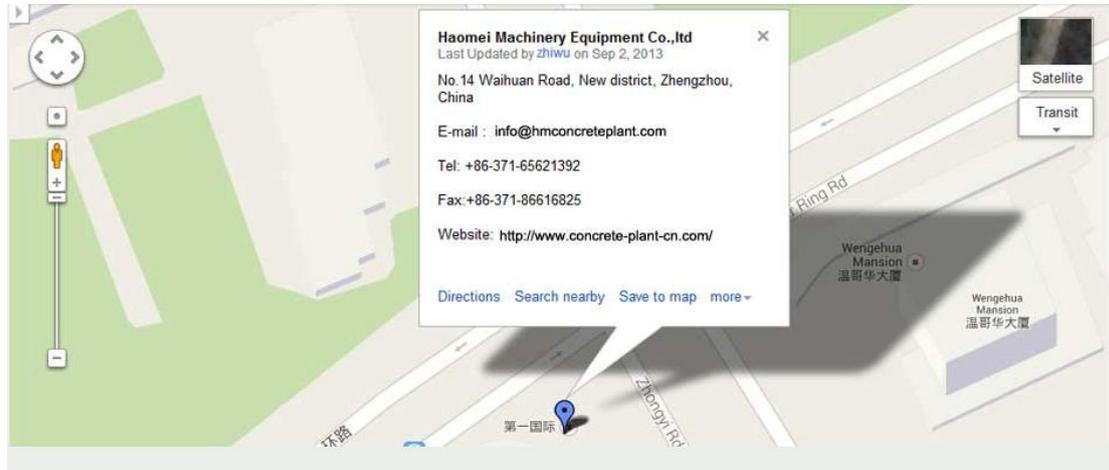
Haomei machinery equipment co., ltd is located in the famous machinery capital of Zhengzhou, China. We are professional machinery products manufacturer—featuring a wide range of quality mobile concrete mixer, concrete batching plant, mobile concrete plant, concrete pump, truck pump with boom, truck mixer, etc. We adhere to the policy of "QUALITY FIRST AND INTEGRITY WINS" to cooperate with clients from all over the world. Seeking for long-term relationship and mutual benefit is our unstoppable goal.

Our company covers over 100 acres with workshop area of more than 50,000 square meters has 5 branches. We have over 1000 technical workers and 80 engineers equipped with advanced producing and inspecting machines with strict management. We focus greatly on our products quality and with such quality our products have been receiving admiration by clients from over 30 provinces in China and royal clients from overseas..

We categorize files for clients by computer so that we can view clients feedback and comments in time, tracking services and long-term warranty. In this way our clients will feel assured and comfortable in using our equipments..

Our main product: JZC/JZM250, 350, 500, 750 movable concrete mixers, PLD800, 1200, 1600, 1800, 2400, 3200, 4800 batchers, LSY series cement screws, HZS25, 35, 50, 60, 75, 90, 120, 150, 180, 240 concrete batching plant, YHZS25, 60, 75 mobile concrete batching plant, HBT series concrete pumps, truck-mounted boom pumps and truck mixers with different

capacities. We are confident to attract our clients from all over the world with our best quality concrete batching machines in China!.



Haomei Machinery Equipment Co.,Ltd

Add : No.14 Shangwu Outer Ring Rd, New District, Zhengzhou, China.

E-mail info@hmconcreteplant.com

Tel: +86-371-65621392

Fax: +86-371-86616825

Website: [http:// haomei.biz](http://haomei.biz)

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