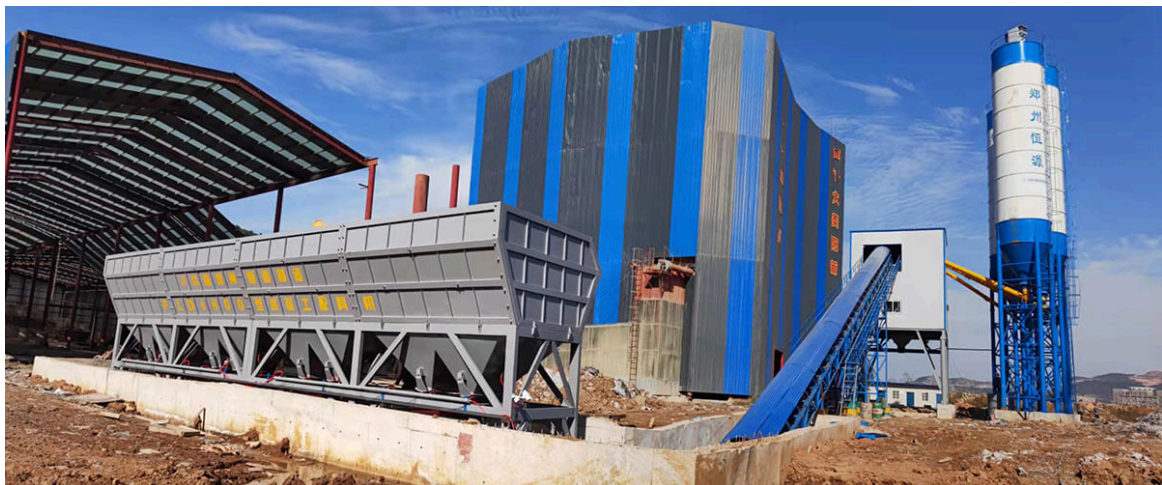


Concrete Batching Plant

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Concrete Batching Plant

A concrete batching plant, also known as a concrete mixing plant, is a specialized facility used to produce concrete. It produces concrete that meets specific strength and durability requirements by accurately measuring and mixing various ingredients such as aggregates, cement, water, and admixtures. This equipment is crucial in modern construction projects and is widely used in road construction, bridge construction, building construction, water conservancy projects, etc.



Types Of Concrete Batching Plants

Concrete batching plants are indispensable equipment in modern construction projects. Their efficient and precise production capabilities provide reliable concrete supply for various engineering projects. Choosing the appropriate concrete mixing plant type and configuration can significantly improve construction efficiency and ensure project quality.

Stationary batching plant: suitable for long-term large-scale projects with high production capacity.

Mobile batching plant: It is highly portable and suitable for projects that require frequent relocation.

Dry mix batching plant: adds water during transportation, suitable for projects requiring intermittent concrete supply.

Wet mix batching plant: adds water to mix before loading, suitable for projects requiring high quality concrete.



Stationary Concrete Batching Plant



Mobile Concrete Batching Plant



Dry Mix Concrete Batching Plant

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Wet Mix Concrete Batching Plant

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Working Principle Of Concrete Batching Plant

Raw materials such as cement, sand, aggregates, etc. are put into the batching machine according to a certain ratio. After being accurately weighed and measured by the batching machine, the proportioned materials are transported to the concrete mixer via a belt conveyor. After being mixed evenly by the concrete mixer, they are transported to the mixer truck or concrete pump by a belt conveyor or screw conveyor for on-site construction operations.

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The Composition Of Concrete Batching Plant

A concrete batching plant, also known as a concrete mixing plant, is a complex system consisting of several key components that work together to produce concrete that meets specific requirements. The following are the main components of a concrete batching plant:



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Mixing machine

Function: The mixing machine is the core of a concrete batching plant and is responsible for mixing various raw materials into concrete. Common types of mixers include forced mixers and self-falling mixers, among which forced mixers are more commonly used due to their efficient mixing capacity and wide applicability.



Material weighing system

Function: Used to accurately measure the weight of various raw materials to ensure the quality and strength of concrete. The weighing system is divided into three parts: aggregate weighing, powder weighing and liquid weighing. For batching plants of different sizes, the weighing method may be different.



Material conveying system

Function: Responsible for conveying raw materials such as aggregates, powders and liquids from the storage area to the mixing machine. The main conveying methods include: aggregate conveying (belt conveyor/hopper), powder conveying (screw conveyor), liquid conveying (water pump).



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Function: used to store various raw materials, including aggregates, powders and water. Aggregates are usually piled in the open air, while powders and water are stored in closed containers to prevent contamination and deterioration.



Control system

Function: The control system is responsible for coordinating and managing the entire production process. It automatically controls the operation of each part according to the set process parameters to ensure the quality and consistency of concrete.



Other auxiliary facilities

Function: Including cement tanks, admixture storage tanks, electrical systems, etc. These facilities support the normal operation of the mixing plant and provide necessary auxiliary functions.

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Parameters Of Concrete Batching Plants

The concrete batching station uses different main machines according to different capacities, and the specific parameters need to be determined according to the actual situation.

Model	HZS60	HZS90	HZS120	HZS180	HZS240	HZS270
Capacity(m ³ /h)	60	90	120	180	240	270

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Aggregate feeder	Incline belt conveyor					
Discharging height(mm)	4200					
After-sale service	Erection & commissioning, operator training					
Warranty	18 months					
Concrete mixer	JS1000	JS1500	JS2000	JS3000	JS4000	JS4500
Mixing cycle	≤60s					
Aggregate batching machine(m³)	4 x 8	4 x 12	4 x 20	4 x 25	4 x 25	4 x 25
Weighing system	Water, Cement, Fly-Ash, Additive					
Weighing precision	±1%					
Air system	Air compressor, etc					
Control system Type	Computer auto-control module (PLC can be optional item)					
Control panel board	Buttons, lamps, indicators, CCTV, etc					
Electric components	China CHINT, SCHNEIDER					
Control room	With Air conditioner and chair					
Documentation	Foundation layout, Electrical diagram, Operation manual					
Optional Items						
Screw conveyor diameter & length(mm)	Ø219/273, L=8000/9000					
Cement silo capacity(t)	50/100/150/200/300/500					
Outer plant pack except aggregate bins	With main frame duct collector					

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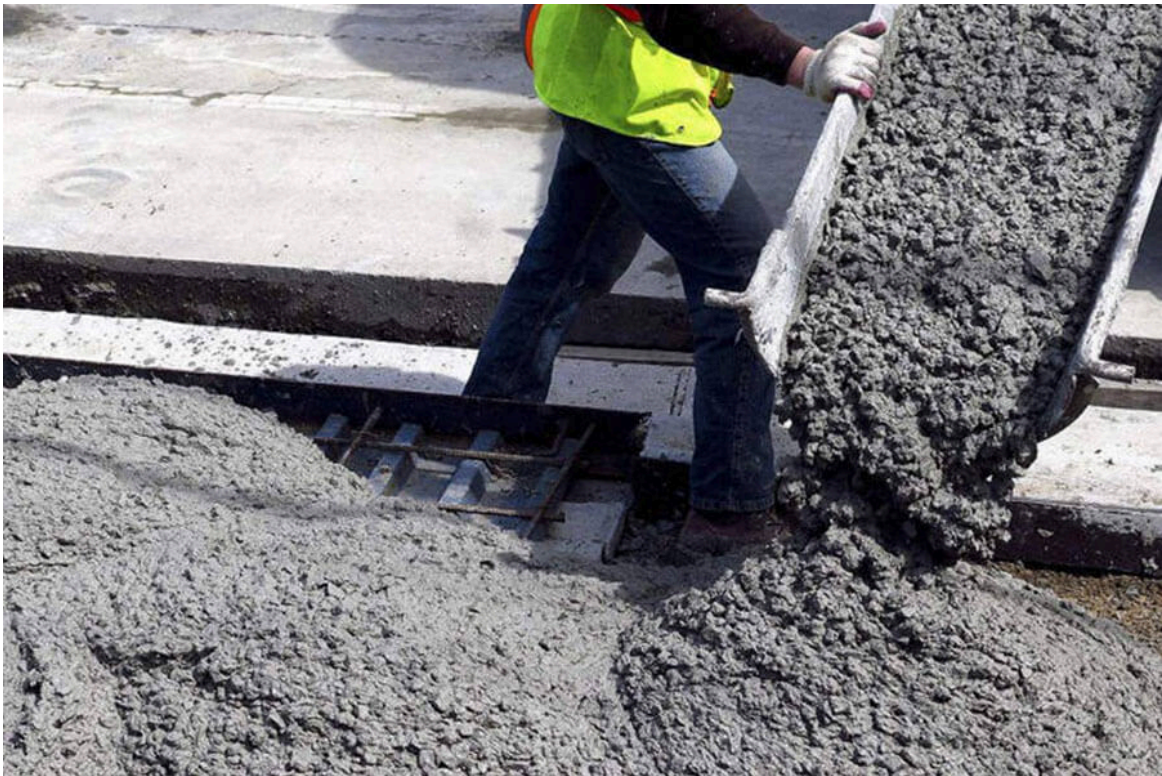
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Application Areas Of Concrete Batching Plants

Concrete batching plants are indispensable equipment in modern construction projects and are widely used in various projects such as construction engineering, bridge and tunnel construction, infrastructure construction, road and highway construction, water conservancy projects, prefabricated component production, commercial and industrial buildings, special applications, and environmentally friendly construction.





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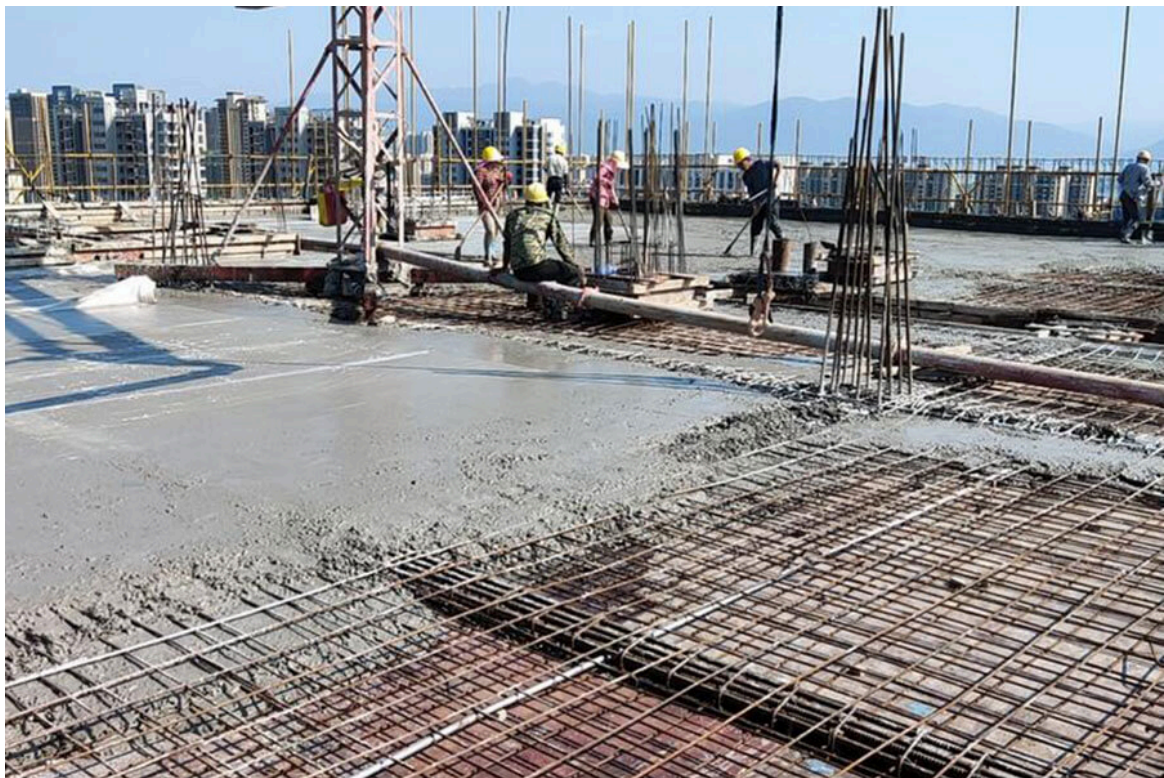
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Choosing The Right Supplier Means Choosing The Future

Before starting your concrete batching plant project, you need to choose a suitable supplier to provide you with long-term support and service. Henan Hengyuan is undoubtedly one of your best choices.



Years of manufacturing experience, standardized manufacturing process, and excellent machine quality.



Professional technical team, constantly optimizing machine details to meet customer needs.



Years of foreign trade sales experience, familiar with the delivery process, fast and efficient.



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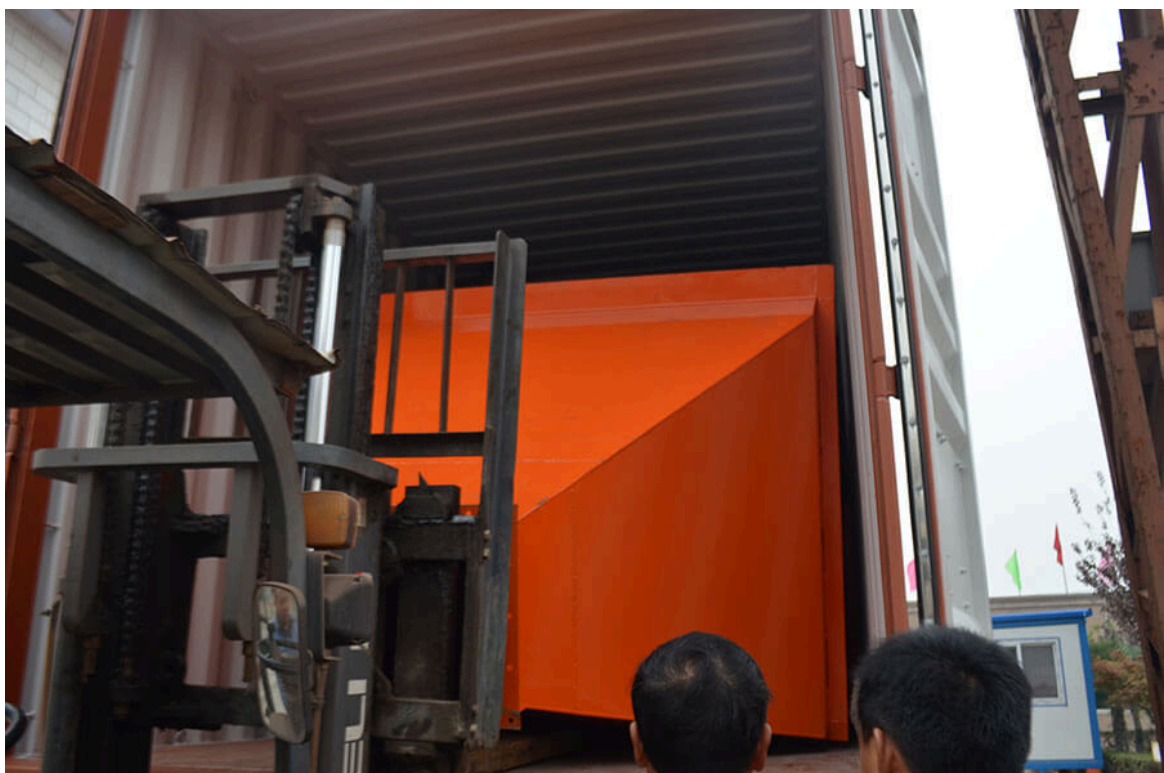
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Henan Hengyuan's Machines Are Shipped All Over The World

As a foreign trade factory with many years of experience in loading containers, our machines and equipment are shipped all over the world.



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Our Client Case Site

Henan Hengyuan is a professional concrete batching plant manufacturer, and its concrete batching plants are sold in more than 100 countries around the world.



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Concrete Pump



Concrete Mixer Pump



Concrete Mixer



Stabilized Soil Mixing Plant



Concrete Auxiliary Equipment

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- 3.When would you like to start the project?
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About us

Henan Hengyuan provides global customers with construction machinery with superior performance, reliable quality and perfect after-sales service with the service policy of high

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Product center

Concrete Batching Plant

Concrete Pumps

Concrete Mixer Pump

Concrete Mixer

Stabilized Soil Mixing Plant

Concrete Auxiliary Equipment

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Henan Hengyuan welcomes customers to visit our factory and reach cooperation!

Concrete batching machine workflow

Unique advantages of Henan Hengyuan concrete pumps

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