



**Henan DASION Machinery CO.,Ltd**

**E-mail:**sales4@cndasion.com

**Address:**1509,pinganbaoxian,jingsanroad,jinshui street,zhengzhou,china

## **HZS belt type concrete mixing plant**

**Keywords:** belt type concrete mixing plant,concrete mixing plant

HZS belt type concrete mixing plant is suitable for big and medium construction projects, which consists of belt conveyor, screw conveyor, concrete silos, aggregate bins, support frame, concrete mixer, Batch belt, load mixed points, with 4 aggregates receiving hoppers below grounds, vertical elevator cups etc.

### **HZS belt type concrete mixing plant images**



### **HZS belt type concrete mixing plant spare parts and their function**

- ◆ Dump hopper (sand or cement): to store the sand or cement in the hopper before conveying to the sand or cement silo for storage
- ◆ Belt conveyor: to convey the sand or cement from the dump hopper to the sand or cement silo.
- ◆ Silo top filter is provided at the top of the silo to vent the pneumatic conveying air from the silo without dust
- ◆ Slide gate is used for product ( or sand or cement) silo to restrict the raw material discharge
- ◆ Rotary van feeder is used for to control the Sand or cement quantity. The quantity of discharge shall be altered by varying the speed
- ◆ Screw conveyor is suitable for to convey the sand or cement from the sand silo to the blender
- ◆ Blender: to mix the sand, water and cement to get the ready mix mortar
- ◆ After twin shaft mixers or planetary concrete mixer stirring mixture materials, bucket elevator is suitable for to convey the ready mix mortar or concrete from the blender to the product silo
- ◆ Silo-product: to store the products before packing
- ◆ Packing machine: to pack the ready mix mortar or concrete in 50kg or 45kg bag

**concrete mixer**



**batching plants**



**concrete trucks**



**trailer pump**



**gunite machine**



**WEB:**[www.concretemixerschina.com](http://www.concretemixerschina.com)

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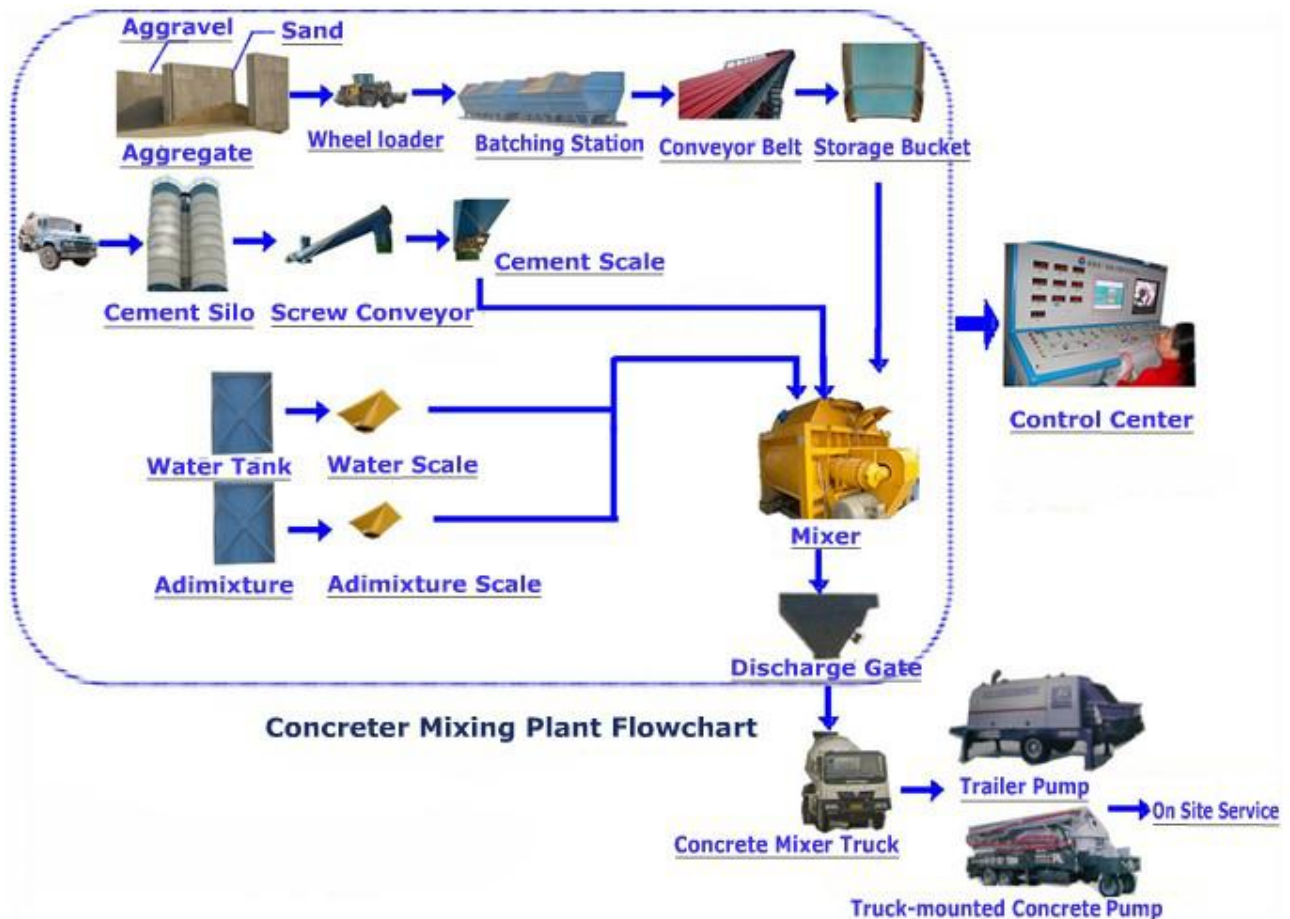
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- ◆ Belt conveyor(inclined): to transport product bags to the truck
- ◆ De-dusting-bagfilter is suitable for de-dusting purpose in and around plant, protecting environments
- ◆ Rotary air clock is used to remove the product collected in the bag filter, cycling waste materials
- ◆ Bagfilter fan is used for process air venting
- ◆ Air compressor is suitable for bag filter purging & / shall be used for the packing plant

### The main structure of belt type concrete mixing plant

1. Material feeding system: aggregate hopper, vertical up and down conveyor etc.
2. Material measurement: bench weigh machine, automatic weighing system
3. Concrete mixing: planetary compulsory concrete mixer, double shaft concrete mixer
4. Whole plant control system: PC and PLC control systems approved CE

### HZS belt type concrete mixing plant flowchart



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### HZS belt concrete mixing plant main parameters

Model	HZS60	HZS90	HZS120	HZS150/180	HZS200/240
Capacity	60m <sup>3</sup> /h	90m <sup>3</sup> /h	120m <sup>3</sup> /h	180m <sup>3</sup> /h	240m <sup>3</sup> /h
Mixing system	Twin-shaft concrete mixer				
Aggregate feeder	Belt conveyor				
Discharging height	3800mm	3800mm	3900mm	4000mm	4000mm
After-sale service	Erection & commissioning, operator training				
Warranty	12 months after erection				
Concrete mixer	YJS1000/ SICOMA 1000	YJS1500/ SICOMA 1500	YJS2000/ SICOMA 2000	YJS3000/ SICOMA 3000	YJS4000/ SICOMA 4000
Mixing cycle	≅ 60s	≅ 60s	≅ 60s	≅ 60s	≅ 60s
Aggregate batching machine	PLD1600	PLD2400	PLD3200	PLD4800	PLD4800
Weighing system	Water, Cement, Fly-ash, Additive				
Weighing precision	±1%				
Air system	Air compressor, etc				
Control system Type	Computer auto-control module with PLC				
Control panel board	Buttons, lamps, indicators, CCTV, etc				
Electric components	China CHINT, German SCHNEIDER				
Control room	With Air conditioner, ≈10m <sup>2</sup>				
Documentation	Foundation layout, Electrical diagram, Operation manual, Spare parts list				
Optional Items					
Screw conveyor diameter & length	Ø219mm/273mm/323mm, L=8000mm/9000mm				
Cement silo capacity	30t/50t/100t/200t				
Outer plant pack except aggregate bins	With dust collector				

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