



# 07 HZS

## Bucket type Concrete Batching Plant

### HZS系列料斗式混凝土搅拌站



- Mixing system: adopt JS series Twin-shaft Concrete Mixer for high quality of mixing effect. Assemble ladder, sidewalk and handrail, easily for worker maintenance;
- Cement system: adopt separated cement silo and screw conveyor for cement storage and feeding, bulk cement pump can be provided based on customers requirement;
- Weighing and control system: adopt new-design of electrical weighing system, can work with computer, control module, digital display, etc, which will make sure the measurement accurate and timely;
- Air system: adopt high quality of air compressor, air pipe and air cylinder, easy installation and maintenance;
- Aggregate feeding system: adopt Bucket (Skip Hopper), assemble self-locking hoist motor for bucket up and down, to avoid bucket falls down suddenly;
- Aggregate batcher: adopt PLD series of automatically weighing and discharging machine, reliable quality and long service life.
- Supporting steel structure adopt heavy-design, to ensure the plant firm in working.
- Concrete discharge height can be design to accommodate truck mixer/concrete pump/skip car.

- 搅拌系统采用JS系列双卧轴混凝土搅拌机, 搅拌效率高、质量好, 配备梯子、走台, 方便工人检修;
- 水泥系统采用独立的水泥仓和螺旋输送机, 用于水泥的储藏和输送。如果客户需要, 可以配备袋装水泥输送机;
- 控制系统采用新型的电子称重系统, 可与计算机、控制模块、数字显示仪表等配合工作, 确保称重精度和准时;
- 气路系统采用高质量的空气压缩机、气路管件和气缸, 便于安装和维护;
- 骨料输送系统采用料斗(爬斗), 配备专门的带自锁的提升设备, 防止料斗滑落;
- 骨料配料机采用PLD系列自动称重和卸料设备, 质量可靠, 性能稳定;
- 支撑钢结构采用重型设计, 确保搅拌站工作稳定;
- 混凝土卸料高度可以根据搅拌车、混凝土输送泵、料车的高度, 灵活设计。

- 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:
- Turn on control software, login to operation interface;
  - Set or access working parameters of concrete production, such as recipe number, concrete grade, slump, total production volume, etc.
  - Start production;
  - The control software will give signal to each part of the plant, to finish the material feeding, measurement, loading into the concrete mixer, mixing and discharging;
  - 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.
  - Regarding to the material feeding, the various of electric motors, butterfly valves and load cells will work automatically according to digital signal;
  - 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.
  - The software will control the whole system continuously produce concrete till the set-volume finished production, unless emergency stop or turn to Manual style.

- 混凝土搅拌站分为四个主要部分: 物料给料、物料称量、混凝土搅拌和整站控制系统。
- 自动控制系统的工作程序如下:
- 打开控制软件, 登录到操作界面;
  - 设置或调取混凝土生产工作参数, 例如配比号、混凝土等级、塌落度、生产量等;
  - 开始生产;
  - 控制软件会给信号到搅拌站的每个部分, 去分别完成物料的给料、称量、搅拌和卸料;
  - 如果在生产过程中出现问题, 控制软件会检测出问题所在点, 并且在显示器上或者仪表盘上亮起报警灯, 便于提示操作员及时停止生产, 直至问题解决;
  - 关于物料给料, 各种电机、蝶阀、传感器会根据数字信号自动工作;
  - 高压气路系统会给各个卸料机构提供足够的动力, 比如骨料仓、各称量斗的蝶阀、搅拌机卸料门等;
  - 控制软件会操作搅拌站连续生产, 直至完成设置的生产量, 除非急停或者转到手动模式。

Main configuration and parameters

主要配置与参数

型号 Model	HZS25	HZS35	HZS50	HZS50B	HZS75	HZS75B
生产率 Capacity	25m³/h	35m³/h	50m³/h	60m³/h	75m³/h	90m³/h
搅拌系统 Mixing system	Twin-shaft concrete mixer 双卧轴搅拌机主机					
骨料上料 Aggregate feeder	Bucket (Skip hopper) 料斗式					
卸料高度 Discharging height	1500-3800mm	3800mm	3800mm	3800mm	3800mm	3800mm
售后服务 After-sale service	Erection & commissioning, operator training 接线、调试、培训					
质保 Warranty	12 months after erection 安装后12个月					
搅拌机 Concrete mixer	JS500	JS750	JS1000	JS1000B	JS1500	JS1500B
搅拌周期 Mixing cycle	72s	72s	72s	60s	72s	60s
骨料配料机 Aggregate batching machine	PLD800	PLD1200	PLD1600	PLD1600	PLD2400	PLD2400
称重系统 Weighing system	Water, Cement, Additive水、水泥、添加剂					
称重精度 Weighing precision	±1%					
气路系统 Air system	Air compressor, etc					
控制系统 Control system Type	Computer auto-control module (PLC can be optional item)计算机自动控制模块 (PLC可被选装)					
控制台 Control panel board	Buttons, lamps, indicators, etc 显示仪表、按钮、指示灯等					
电子元器件 Electric components	China CHINT, German SCHNEIDER (option) 中国正泰, 德国施耐德选配					
控制房 Control room	With Air conditioner, ≈6m²含空调, 约6平方					
文件 Documentation	Foundation layout, Electrical diagram, Operation manual地基图、电路图、操作说明书					
Optional Powder Feeding System 粉料系统选配						
螺旋输送机及长度 Screw conveyor diameter & length	Ø219mm/273mm, L=8000mm/9000mm					
粉料仓 Cement silo capacity	30t/50t/100t/200t					

Brief Introduction

DASION Bucket type of concrete mixing plant consists of material batching, mixing and electric control system, etc, which is professional equipment for ready mix concrete production.

HZS系列料斗式混凝土搅拌站是由配料、搅拌、电气控制等部分组成的全自动混凝土拌制成套设备, 是生产预拌混凝土, 如塑性混凝土、干硬性混凝土的理想设备。

产品简介