

SANY

Quality Changes the World



SANY CONCRETE BATCHING PLANT

SANY Concrete Batching Plant

Mixer

Page 1~2

With 4 patent technologies;
With high reliability and long service life;
With multiple shaft end seals to efficaciously eliminate leakage of concrete;
With mixing blade made of high anti-wear material.

Batch bunker

Page 2

With modular structure, it is convenient for installation, manufacture and conveying;
Easy and smooth for feeding and discharging
With the ground bunker and steel structural bunker as options for regional differences;
Rough-precise measuring door for blanking, of high accuracy.

Aggregate Belt Conveyor

Page 4

With endless belt;
With the frame designed into standard segments, it is easy to produce, install and convey;
With belt conveyer sealed with hood, the pollution to environment is greatly reduced;
With overhaul aisle and safety armrest.

Measuring System

Page 4

With the measuring elements of world-famous brands;
With two control schemes for measuring system;
High reliability and anti-interference performance;
The discharging door vibrates to unload material, of high accuracy.

One time purchase will be followed with a whole set service.

SANY, at all times, is thoughtful for customers. When purchasing SANY concrete batching plant, buyer will be provided with the most professional guidance from SANY, in light of the buyer's actual demanding situation, to select the most suitable model and optimize the purchase. A professional team then will be assigned for the follow-up service and instructing the buyer the best installation mode.

A round-the-clock consultation service system is established to solve customers' problems and difficulties.

A most valuable set of economic operation system is tailored to help customers eliminate plagues on investment and achieve a high-quality operation mode.

Our constant consideration and plan for customers on product selection, installation, run, consultation, integration and operation is aimed to assist customers to achieve every success in their career and life.



The high quality of SANY products comes from constant improvement on every aspect.

Electric Control System

Page 5

Fully automatic control over batching, discharging, mixing and outputting;

With double screens to display the monitoring system and management system;

With one key to start the same production task;

Taking the form of IPC (Industrial Personal Computer) + PLC + batching end instruments.

Construction Cases

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Technical Specifications

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Complete Customer Support

Pages 11~12

All SANY concrete batching plant users can enjoy commitment of overall services supplied by SANY.

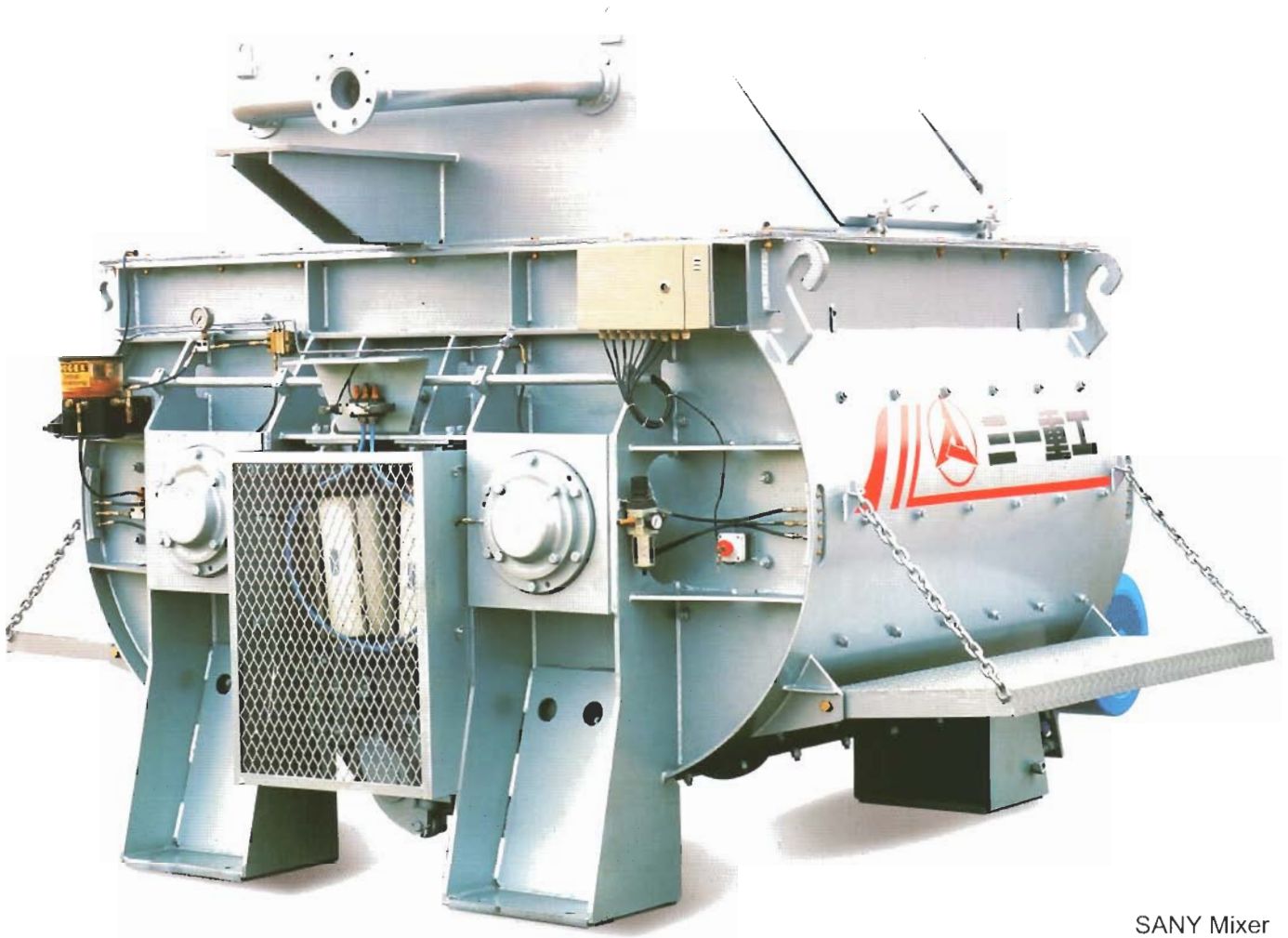
SANY HZS series concrete batching plants hold the outstanding mixing efficiency. For example, the mixing efficiency of 2m³ plant reaches 100~115m³/h, and that of 3m³ plant hits 150~165m³/h.

SANY concrete batching plants feature firm structure, convenient operation, precise measuring, long service life, high reliability and environmental protecting.



SANY Mixer

It holds four patent technologies, remarkable anti-wear and mixing performance.



SANY Mixer

The SANY mixer with two horizontal shafts is independently developed for the high-efficiency concrete mixing equipment. This mixer is capable to produce the high-quality concrete in the shortest time. The mixing takes only 25 seconds.

With the internationally prevalent planetary gear reducer drive, the mixer presents better mixing ability, even and fast mixing and extraordinarily high productivity.

The mixer concentrates four patent technologies, namely the malfunction diagnosis device for shaft end seal, the detection and warning device for motor temperature, the detection and warning device for lubricating oil temperature inside reducer and the safety device for overhaul door.

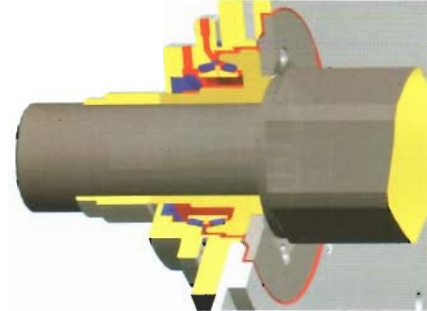
Developed on the basis of the research achievements regarding hydrodynamics and tribology, the mixing arm and the mixing blade bear excellent mixing quality and efficiency. After a 12-second mixing, the homogeneity of concrete reaches 85%, and it will rise to 95% in another 12-second mixing.

Special reducer of world-famous brand is adopted and featured by high reliability, long service life, large transfer torque and outstanding power performance.

The world-renowned electric centralized instant control lubrication pump ensures the shaft end seals filled with grease; Meanwhile, 4 shaft end seals are equipped with a manual oil filling point.

The digital control processing centre assures the coaxiality of the two bearing holes of mixing tank, so that the shaft end seals are dependable. The equipment is in the nature of low noise and low energy consumption.

Made of the antiwear high chromium cast iron and processed through the special heat treatment, the liner plate and mixing blade have the extra long life to withstand over 60,000 tank • times of mixing.



1 Shaft End Seal

Multiple protections on shaft end seals efficaciously prevent leakage of concrete.

The pneumatic door bears obvious advantages, such as compact in structure, quicker than hydraulic door, free of leakage and pollution, and centralized and convenient for maintenance. Besides, the manual discharge door is set against unexpected electricity cutoff.



2 Reducer



3 Lubricating Oil Pump



4 Liner Plate inside Mixing Chamber

Batching Bunker

SANY batching bunker adopts modular structure, capable to measure materials independently. The measurer for water ratio in sand is tailored for customer.

The arc door feeder is set at the bottom of aggregate silo. Together with reasonable clearance and specially designed anti-seize door, it prevents the silo door from obstructing materials, and brings on smooth blanking and reliable operation.

With modular structure, it is convenient for installation, manufacture, conveying and dismantlement.

The rough-precise measuring door is used for blanking, with the merit of short measuring time and high measuring accuracy.

The sand silo with vibration device ensures smooth blanking. The overall structure of aggregate silo fully satisfied requirements of easy feeding and blanking.

Materials can be delivered into the aggregate silo by loader or belt conveyer. The ground batching bunker and steel structure batching bunker are available for different regions.





Aggregate Belt Conveyor

The cleaner scraper plate is made of high anti-wear polymer material, with desirable cleaning effect and long service life.

The suspension carrier roller with automatic aligning function and the counterweighted take-up with constant tension force are adopted, making easy adjustment for belt conveyor.

The frame is designed into standard segments, easy for installation, manufacture and conveying.

The belt conveyor is sealed with hood so as to abate pollution to environment; And the overhaul aisle and safety armrest are equipped to facilitate the routine maintenance.

Fast Conveying, Stable Running.

The adjusting striker plate at tail of the inclined belt available regulates the fall point of aggregate and prevents deviated running of belt.



Measuring System

The measuring elements are of world-famous brands and high measuring accuracy.

There are two control schemes of measuring system.

The first one is a measuring network comprising SANY SWD-100 weighing display controller. In this system, modules connect with each other through the CAN bus, so that the network structure is largely simplified and lots of signal transfer cables are saved. Moreover, as the signal acquisition module is hard by the sensor and it is digital signal that is in the long distance transmission, the reliability of network is greatly enhanced.

The second one is a measuring system consisting of Mettler Toledo T600 batching controller, ensuring reliable quality.

The measuring system of SANY batching plant comprises steel structure balance and electric batching system. In the standard configuration, there are 4 aggregate balances, 2 powder lot balances and 2 liquid balances; Hereinto, the powder lot balance can measure 2 kinds of material at one time, and other balances are used to weigh one kind per time.

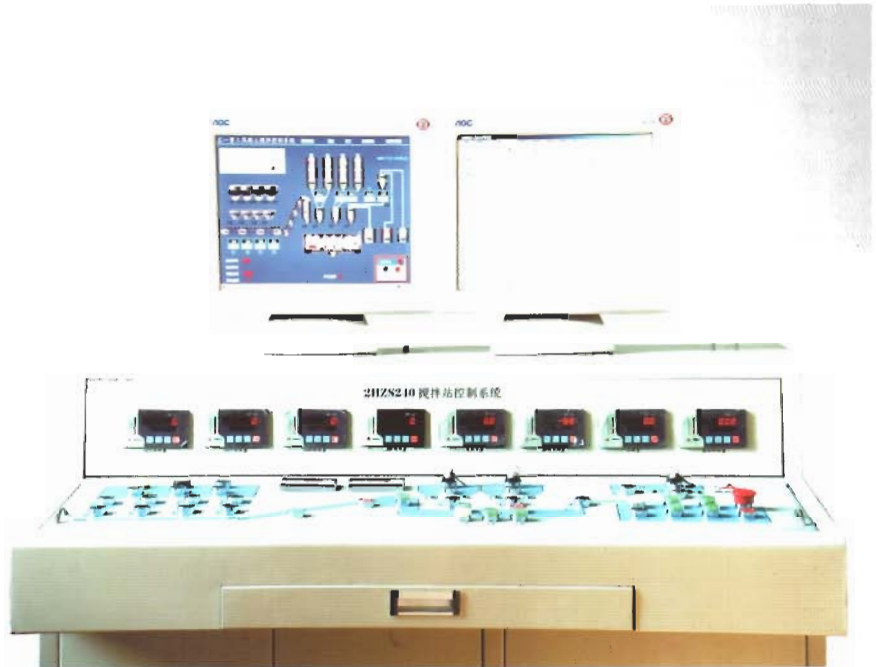


Electric Control System

Intelligent operating system and simplified operational method

SANY electric control system takes the form of IPC (Industrial Personal Computer) + PLC + batching end instruments, which embodies the trait of distributed system that divides work among different sections. The IPC is used for simulation monitoring of production process and management of production information and data; the PLC is responsible for logic control; the batching end instruments are in charge of each balance's batching and discharging task.

The advantage of the modular structure lies in that each section can apply high quality product, which favors the stable and reliable operation of system. In case that the IPC fails, the PLC and the batching end instruments are still capable to finish the automatic production process and prevent interrupting production.



□ Console at Work

In addition to fundamental functions such as contract management, task management, formula management, report management and maintenance of system's basic data, the management software system has the extended interface through which a network management system can be formed by the lab software, finance software and other relevant softwares.

The on-site real-time fault diagnosis system enables unprofessional users to easily solve problems that they encounter in the course of production. Additionally, the remote fault diagnosis system can be added in light of customers' requirements.

Precise measuring performance and high reliability.

The target value of sand and water can be adjusted on-line according to production requirements. Also, it can automatically convert production value in light of the water ratio in aggregate.

The discharging order and discharging interval of aggregate can be altered randomly.

Long-distance office management and bill printing can be achieved via network. (non-standard configuration).

It is able to print all kinds of delivery notes. As the delivery notes software bears the block-by-block function, users can adjust the software by themselves to meet different needs.

Features of control system:

Automatic control over the whole process from inputting, batching, to discharging, mixing and outputting;

Real-time tracking and displaying the set value, weighing value, weighing error, and the batching data;

The double display screens show the monitoring system and management system simultaneously.

With the 3D animation simulating the manufacture process, the activities of each material door and the production progress are clear at a glance.

It has the functions to suspend the batching, feeding and outputting process. When the process fails, it will automatically suspend it and send a message for handling the problem.

The selection of job specification has filtering function, which can display just the used job specification.

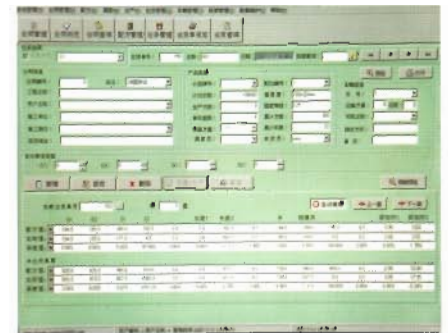
The formats and items of delivery notes can be custom-made.

It can start the same production task by one key.

The practical productivity of the 2-m³ plant can reach 100-115m³/h.

The PLC can continue control and conduct automatic production when IPC fails.

In case of serious malfunction happens to the IPC software, users can restore the system with the one-key recovery function.



□ Main Interface of Management Software



□ Main Interface of Monitoring

Construction Cases



□ In Denverty Bridge Co.,Ltd., Sudan



□ In Taizhou Zhenfeng Commercial Concrete Co.,Ltd., Zhejiang, China



□ In Yemen



□ In Hunan Xiandai Jiye Concrete Co.,Ltd,Hunan, China.



□ In Wuxi Shanchang Concrete Co.,Ltd.,Jiangsu, China

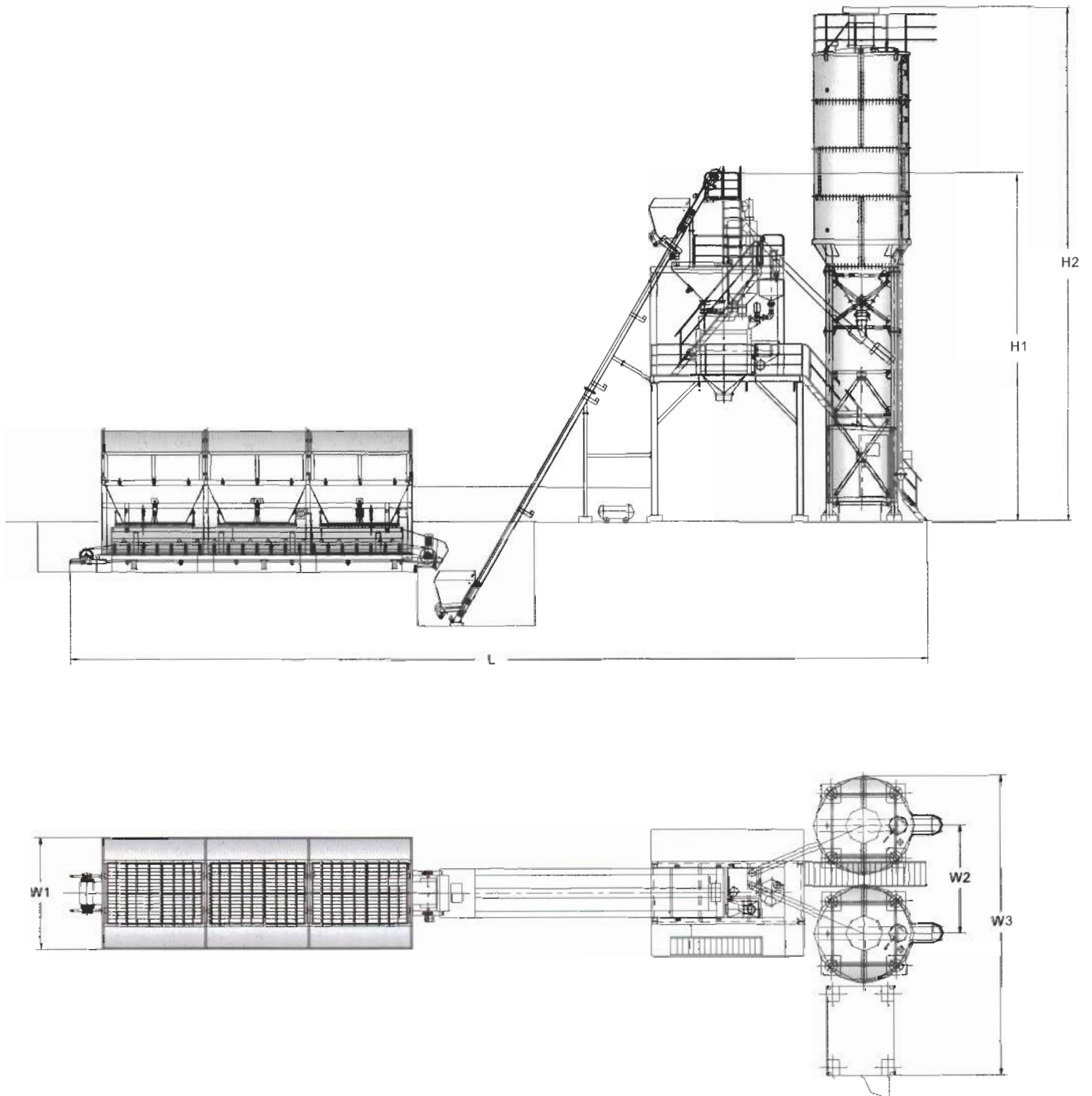


□ In Yiyang Jianye Concrete Co.,Ltd., Hunan, China

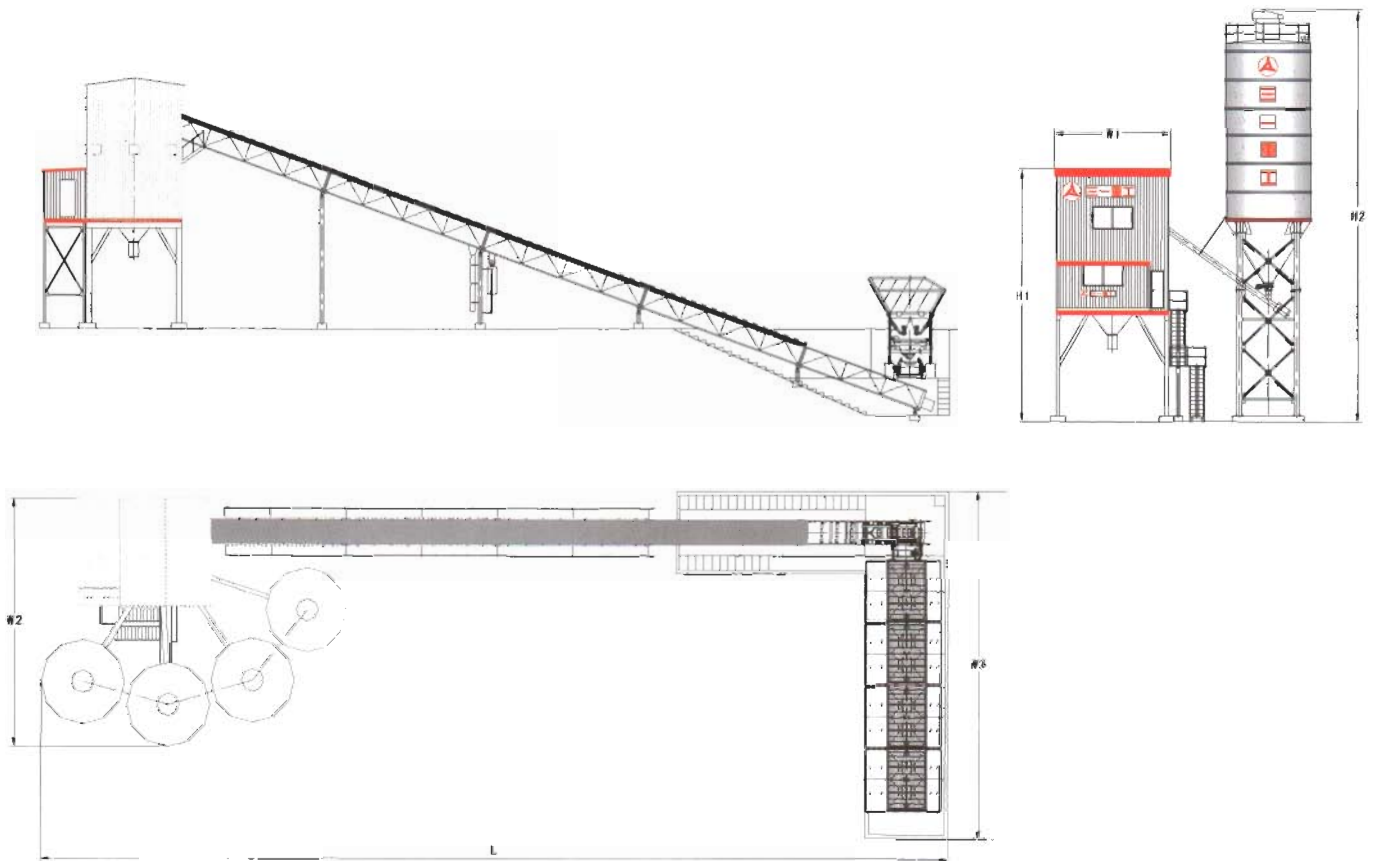


□ In Suizhou Tiancheng Concrete Co.,Ltd., Hubei, China

Drawings for HZS60G HZS90G HZS120G



Drawings for HZS90 HZS120 HZS180 HZS240 (270)



Specification

Overall Dimension of Concrete Batching Plant

Model	L	W1	W2	W3	H1	H2
HZS60G	27100mm	3560mm	4000mm	8800mm	9050mm	19500mm
	(88' 11")	(11' 8")	(13' 1")	(28' 10")	(29' 8")	(64')
HZS90G	27100mm	3560mm	4000mm	8800mm	9050mm	22800mm
	(88' 11")	(11' 8")	(13' 1")	(28' 10")	(29' 8")	(74' 9")
HZS120G	27400mm	3560mm	4000mm	8800mm	9400mm	22800mm
	(88' 11")	(11' 8")	(13' 1")	(28' 10")	(30' 10")	(74' 9")
HZS90	46000mm	6200mm	12850mm	15340mm	13270mm	22800mm
	(150' 11")	(20' 4")	(42' 2")	(50' 4")	(43' 6")	(74' 9")
HZS120	50630mm	6200mm	14000mm	18900mm	13340mm	21800mm
	(166' 1")	(20' 4")	(45' 11")	(62')	(43' 9")	(71' 6")
HZS180	54000mm	7600mm	14460mm	19300mm	14320mm	21800mm
	(177' 2")	(24' 11")	(47' 5")	(63' 4")	(46' 11")	(71' 6")
HZ240(270)	56200mm	7000mm	15600mm	21300mm	15000mm	23850mm
	(184' 5")	(23')	(51' 2")	(69' 11")	(49' 3")	(78' 3")

Concrete Mixer

Technical parameters	Model			
	JS1000	JS2000	JS3000	JS4000
Nominal capacity	1000 L(220gal)	2000 L(440gal)	3000 L(660gal)	4000 L(880gal)
Material Feeding capacity	1600 L(352gal)	3200 L(704gal)	4800 L(1056gal)	6400L(1408gal)
Mixer motor power	2 × 18.5 KW	2 × 37 KW	2 × 55 KW	2 × 75 kW
Mixing time	25s	25s	25s	25s
Discharging time	12s	12s	12s	12s
Maximum aggregate size	φ 80mm (2")	φ 80mm (3")	φ 80mm (3")	φ 80mm (3")
Overall weight	5600 kg (12346lbs)	7800 kg (17196lbs)	9000 kg (19841lbs)	14000kg(30865lbs)

Engineering Concrete Batching Plant

Technical parameters	Model		
	HZS60G	HZS90G	HZS120G
Theoretic productivity	60m ³ /h (78yd ³ /hr)	90m ³ /h (117yd ³ /hr)	120 m ³ /h (156yd ³ /hr)
Model of mixer	JS1000	JS1500	JS2000
Mixer motor power	2 × 22 KW	2 × 30 KW	2 × 37KW
Cycling period	60s	60s	60s
Nominal capacity of mixer	1000 L(220gal)	1500 L(330gal)	2000 L(440gal)
Maximum aggregate size	φ 80 mm (3")	φ 80 mm (3")	φ 80 mm (3")
Powder lot bin capacity	2 × 50t	2 × 100 t	2 × 100 t
Capacity of batching plant	1600 L(352gal)t	1600 L(352gal)	1600 L(352gal)
Capacity of aggregate silo	3 × 17 m ³ (3 × 22yd ³)	3 × 17 m ³ (3 × 22yd ³)	3 × 17 m ³ (3 × 22yd ³)
Species of aggregate	3	3	3
Productivity of aggregate belt conveyor	140 t/h	210 t/h	280 t/h
Maximum productivity of spiral conveyor	110 t/h	110 t/h	110 t/h
Discharging height	3.8 m (12' 6")	3.8 m (12' 6")	3.8 m (12' 6")
Installed capacity	100 KW	160 KW	210 KW
Nominal weighting and precision of aggregate	(0 ~ 3000) ± 2% kg	(0 ~ 5000) ± 2% kg	
	(0 ~ 6614) ± 2% lbs	(0 ~ 11023) ± 2% lbs	
Nominal weighting and precision of cement		(0 ~ 1200) ± 1% kg	
	(0 ~ 900) ± 1% kg	(0 ~ 1200) ± 1% kg	(0 ~ 2645) ± 1% lbs
Nominal weighting and precision of fly ash (kg)	(0 ~ 1984) ± 1% lbs	(0 ~ 2645) ± 1% lbs	(0 ~ 600) ± 1% kg
			(0 ~ 1323) ± 1% lbs
Nominal weighting and precision of water (kg)	(0 ~ 300) ± 1% kg	(0 ~ 400) ± 1% kg	(0 ~ 400) ± 1% kg
	(0 ~ 661) ± 1% lbs	(0 ~ 882) ± 1% lbs	(0 ~ 882) ± 1% lbs
Nominal weighting and precision of additive (kg)	(0 ~ 20) ± 1% kg	(0 ~ 50) ± 1% kg	
	(0 ~ 44) ± 1% lbs	(0 ~ 110) ± 1% lbs	

Commercial Concrete Batching Plant

Technical parameters	Model		
	HZS90/2HZS180	HZS120/2HZS240	HZS180/2HZS360
Theoretic productivity	90m ³ /h / 180m ³ /h	120m ³ /h / 240m ³ /h	180m ³ /h / 360m ³ /h
	(117yd ³ /hr/234yd ³ /hr)	(156yd ³ /hr/312yd ³ /hr)	(234yd ³ /hr/468yd ³ /hr)
Model of mixer	JS1500	JS2000	JS3000
Mixer motor power	2 × 30 kW / 4 × 30 kW	2 × 37 kW / 4 × 37 kW	2 × 55 kW / 4 × 55 kW
Cycling period	60s	60s	60s
Nominal capacity of mixer	1500 L(330gal)	2000 L(440gal)	3000 L(660gal)
Maximum aggregate size	φ 80 mm (3")	φ 80 mm (3")	φ 80 mm (3")
Powder lot bin capacity	4 × 100 t / 8 × 100 t	4 × 200 t / 8 × 200 t	4 × 200 t / 8 × 200 t
Capacity of batching plant	2400 L(528gal)	3200L(704gal)	1600 L(352gal)
Capacity of aggregate silo	4 × 15 m ³ / 8 × 15 m ³	4 × 25 m ³ / 8 × 25 m ³	4 × 30 m ³ / 8 × 30 m ³
	(4 × 19.5yd ³ /8 × 19.5yd ³)	(4 × 32.5yd ³ /8 × 32.5yd ³)	(4 × 39yd ³ /8 × 39yd ³)
Species of aggregate	4	4	4
Productivity of aggregate belt conveyor	500 t/h	700 t/h	700t/h
Maximum productivity of spiral conveyor	80 t/h	110 t/h	110 t/h
Discharging height	3.8 m (12' 6")	3.8 m (12' 6")	3.8 m (12' 6")
Installed capacity	164 KW / 2 × 164 KW	210 KW / 2 × 210 KW	250 KW / 2 × 250 KW
	(0 ~ 2000) ± 2% kg	(0 ~ 3000) ± 2%	(0 ~ 3000) ± 2%
Nominal weighting and precision of aggregate	(0 ~ 4409) ± 2% lbs	(0 ~ 6614) ± 2% lbs	(0 ~ 6614) ± 2% lbs
	(0 ~ 1200) ± 1% kg	(0 ~ 1200) ± 1% kg	(0 ~ 1800) ± 1% kg
Nominal weighting and precision of cement	(0 ~ 2645) ± 1% lbs	(0 ~ 2645) ± 1% lbs	(0 ~ 3968) ± 1% lbs
	(0 ~ 500) ± 1% kg	(0 ~ 500) ± 1% kg	(0 ~ 1000) ± 1% kg
Nominal weighting and precision of fly ash (kg)	(0 ~ 1102) ± 1% lbs	(0 ~ 1102) ± 1% lbs	(0 ~ 2205) ± 1% lbs
	(0 ~ 400) ± 1% kg	(0 ~ 600) ± 1% kg	(0 ~ 800) ± 1% kg
Nominal weighting and precision of water (kg)	(0 ~ 882) ± 1% lbs	(0 ~ 1322) ± 1% lbs	(0 ~ 1763) ± 1% lbs
	(0 ~ 50) ± 1% kg	(0 ~ 50) ± 1% kg	(0 ~ 80) ± 1% kg
Nominal weighting and precision of additive (kg)	(0 ~ 110) ± 1% lbs	(0 ~ 110) ± 1% lbs	(0 ~ 176) ± 1% lbs

Complete Customer Support

All SANY Concrete Batching Plant users can enjoy the commitment of overall services supplied by SANY.

SANY has established branches and offices over 100 countries and regions, including 12 overseas subsidiaries in North Africa, West and Central Africa, South Africa, Europe, Middle East, North America, India, Russia, South-east Asia, Australia as well as Ukraine, and 68 service offices.

SANY now has 128 international service engineers to provide after-sale service and technical support to 69 sites of 65 countries in five continents. Besides, 6 overseas central warehouses have been set up in Middle East, India, North America, Europe, South-east Asia and North Africa, and another 6 overseas central warehouses are prepared to construct in West and Central Africa, South Africa, South America, Russia, Ukraine and Australia.

Guarantee for Service Commitment

Based on the above commitment to product service, Sany is responsible and obligated to accredit certain number of service personnel with relevant knowledge and skills to instruct and insist distributor to set up administrative office.





Service Response

After receiving the service call from customer or distributor, the service engineer will afford technical support by communicating to customer by phone or at the site. The service engineer must arrive at the

site on time by appointment with customer.

- 24 hours waiting-on-orders system for service engineers.
- The service engineer shall not leave the site before successfully solving the

malfunctions, and shall be permitted by the customers.

In case of not solving the problem within three days, technical support and guide will be supplied from headquarter.

Pre-sale Service

Technical consultations for special project: to offer free technical consultations for special project and to assist in studying out construction scheme for reference.
Equipment model selecting: to offer free consultations and various alternatives and to recommend the most suitable product.

In-sale Service

Pre-inspection of product: to conduct pre-inspection for product and make machine-starting training.
Transportation protection: Normative anticorrosive and antirust technology is adopted to insure the product quality during transportation.

After-sale Service

- Assist the customers in working out the initial construction scheme.
- Install and debug the equipment.
- Train the operator on site.
- In-process quality control of the machine periodically.
- Solve the malfunction on site, rapid and actively.
- Initiate large maintenance program.
- Special service for key projects.
- Provide unconventional service.
- Provide the opportunity for technical exchange.

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment.

