SANY INTERNATIONAL

Concrete Batching Plant

SANY Heavy Industry Co., Ltd.

CONTENTS

01

PART

PART ONE

Comprehensive Strength

Milestones

2002

Sany first concrete batching plant launched

2005

Yemen HZS60 plant entered international market

2006

Wuhan high-speed railway plant
Extra accurate weighing technology

2008

Accumulated 100 sets for international concrete batching plant

2013

Accumulated 10k sets
Best brand in China

2020

X8 series launched
Fast installation and transportation

2022

Entering intelligent mixing era

The first SANY concrete batching plant was released in 2002, and sold internationally in 2005. So far it has been sold in over 60 countries and territories around the world and more than 20k sets have been delivered, awarding the best seller in China for 16 consecutive years

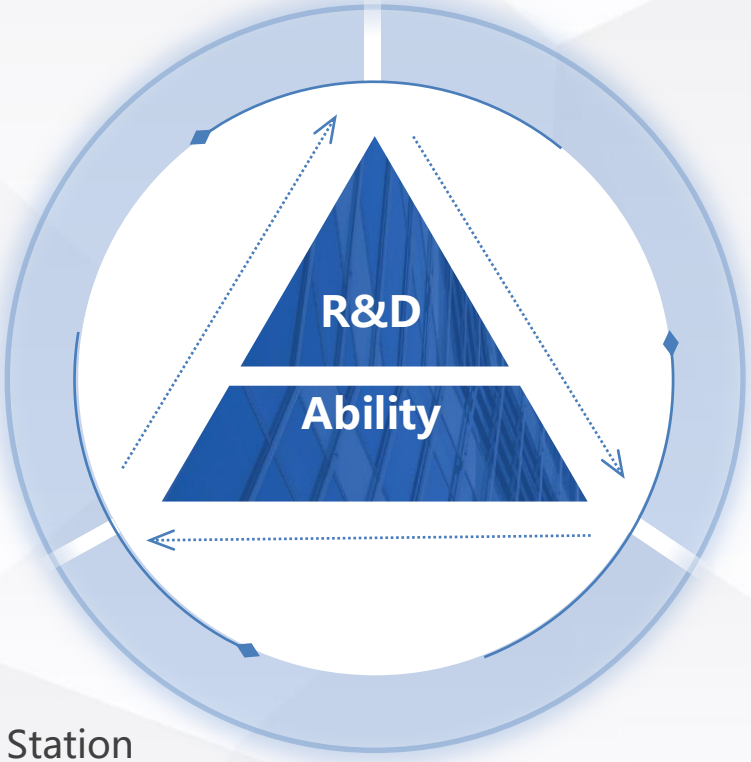
Comprehensive Strength-R&D Ability

R&D Team

More than 200 engineers
Master and PhD ratio>75%

Scientific Achievement

718 issued patents
26 national and provincial awards for Progress in Science and Technology



Research Input

Investing 5-7% out of annual sales to R&D

2 R&D Workstations

National Postdoctoral Research Station
Academician Expert Workstation

2 National Centers

National Enterprise Technology Center
National-level Concrete Machinery Testing Center

Comprehensive Strength-Manufacture Ability

World’ s first concrete batching plant lighthouse factory, 12 intelligent production lines, largest and most advanced production equipment, maximum 300 concrete batching mixing plants per month.


Lighthouse Factory


Automatic blanking line


CNC machining process line


Robot welding line


Automatic painting line


Mixer assembling line

Comprehensive Strength-Quality Certification

CE

CE

Attestation of Conformity

No. M8A 074854 0023 Rev. 01

Holder of Certificate: SANY Heavy Industry Co., Ltd.

SANY Industry Town
Economic and Technological
Development Zone
410100 Changsha, Hunan
PEOPLE'S REPUBLIC OF CHINA

Product: Concrete Products
(Concrete Batching Plant)

Model(s): HZS180

Parameters:
Theoretical productivity: 180 m³/h
Rated voltage: 400VAC
Rated power: 250kW

Tested according to:
EN 12151:2007
EN 60204-1:2018
EN ISO 12100:2010

This Attestation of Conformity is issued on a voluntary basis according to Council Directive 2006/42/EC relating to machinery. It confirms that the listed equipment (not Annex IV equipment) complies with the principal protection requirements of the directive. It refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification. See also notes overleaf.

Test report no.: 20.01.50186973.004

Date, 2020-03-02 (Weijun Wu)

Page 1 of 1
After preparation of the necessary technical documentation as well as the EC declaration of conformity the request CE marking can be affixed on the product. Other relevant directives have to be observed.

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

ISO45001

BUREAU VERITAS Certification

SANY HEAVY INDUSTRY CO., LTD.

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 45001:2018

Scope of certification

Original cycle start date by previous certification body: 29 September 2015
Expiry date of previous cycle: NA
Certification / Recertification audit date: NA
Certification / Recertification cycle start date: 13 August 2021

Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: 29 September 2024

Certificate No.: CNGZ302783-U Version: No.1, Issue date: 13 August 2021

Signed on behalf of BVCH SAS UK Branch

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ISO9001

BUREAU VERITAS Certification

SANY HEAVY INDUSTRY CO., LTD.

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 14001:2015

Scope of certification

Original cycle start date by previous certification body: 6 August 2015
Expiry date of previous cycle: NA
Certification / Recertification audit date: NA
Certification / Recertification cycle start date: 13 August 2021

Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: 5 August 2024

Certificate No.: CNGZ302782-U Version: No.1, Issue date: 13 August 2021

Signed on behalf of BVCH SAS UK Branch

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Metering Certification

测量管理体系认证证书

证书编号 No. CMS 湘[2023]AAA431 号

单位名称：三一汽车制造有限公司

单位地址：湖南省长沙市经济技术开发区三一工业城

兹证明贵单位在产品质量、经营管理、节能降耗、环境监测等方面的测量管理体系符合 GB/T 19022-2003/ISO 10012：2003《测量管理体系-测量过程和测量设备的要求》标准的全部要求。

特发此证。

认证范围及其他符合性说明详见附件。

（本证书的有效性依据认证中心的定期监督获保持。在一个监督周期后，与 CMS 签发的《年度监督审核合格通知书》合并使用方可有效。）

颁证日期：2023 年 01 月 16 日

有效期至：2028 年 01 月 15 日

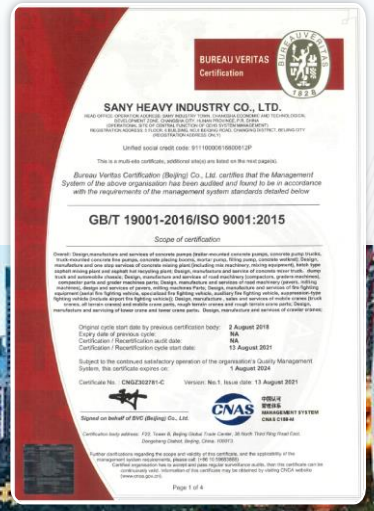
签发人：

中启计量体系认证中心

中国 北京 朝阳区首都南路 3 号 100029

网址/投诉 www.cnaa-cms.org

ISO14001



BUREAU VERITAS Certification

SANY HEAVY INDUSTRY CO., LTD.

Bureau Veritas Certification (Beijing) Co., Ltd. certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

GB/T 19001-2016/ISO 9001:2015

Scope of certification

Original cycle start date by previous certification body: 2 August 2018
Expiry date of previous cycle: NA
Certification / Recertification audit date: NA
Certification / Recertification cycle start date: 13 August 2021

Subject to the continued satisfactory operation of the organisation's Quality Management System, this certificate expires on: 1 August 2024

Certificate No.: CNGZ302781-C Version: No.1, Issue date: 13 August 2021

Signed on behalf of BVC (Beijing) Co., Ltd.

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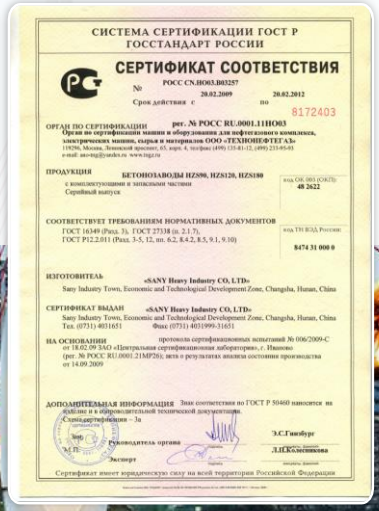
GOST



СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р
ГОССТАНДАРТ РОССИИ

СЕРТИФИКАТ СООТВЕТСТВИЯ

РОСС CN.ИО03.И03257

№ 8172403

Срок действия с 20.02.2009 по 20.02.2012

ОРГАН ПО СЕРТИФИКАЦИИ рег. № РОСС RU.0001.11ИО03

Орган по сертификации машин и оборудования для нефтегазового комплекса, электрических машин, сырья и материалов ООО «ТЕХНОНЕФТЕГАЗ»

ПРОДУКЦИЯ БЕТОНОЗАВОДЫ HZS90, HZS120, HZS180

Серийный выпуск

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ

ГОСТ 10349 (Разд. 3), ГОСТ 27338 (п. 2.1.7), ГОСТ Р12.2.011 (Разд. 3-5, 12, пп. 6.2, 8.4.2, 8.5, 9.1, 9.10)

ИЗГОТОВИТЕЛЬ «SANY Heavy Industry CO, LTD»

Sany Industry Town, Economic and Technological Development Zone, Changsha, Hunan, China

СЕРТИФИКАТ ВЫДАН «SANY Heavy Industry CO, LTD»

Sany Industry Town, Economic and Technological Development Zone, Changsha, Hunan, China

НА ОСНОВАНИИ протокола сертификационных испытаний № 006/2009-С от 18.02.09 ЗАО «Центральная сертификационная лаборатория», г. Иваново (рег. № РОСС RU.0001.21МР26); акта о результатах анализа состояния производства от 14.09.2009

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Знак соответствия по ГОСТ Р 50460 наносится на изделие и в сопроводительной технической документации.
Схема сертификации – 3а

Руководитель органа Э.С.Гинзбург

Эксперт Л.П.Кононова

Сертификат имеет юридическую силу на всей территории Российской Федерации

02

PART

PART TWO

Product Overview

3 series, 13 products

Inclined belt type

HZS60X8
HZS90X8
HZS120X8
HZS180X8
HZS240C10C

Hoist type

HZS30G
HZS60G
HZS90G
HZS120TC10

Mixing tower

HLS240C10
HLS270C10
HLS300C10

Inclined Belt Type Plant

HZS60X8/90X8/120X8/180X8/240C10C

High Performance	Highest productivity in industry
Accurate Weighing	High accuracy, can be applied on high-speed railway
Fast Delivery	Container type structure, pre-assembled, deliver time reduced by 30%
All-sided Adaption	Fitting all kinds of sand, and small amount production

Inclined Belt Type

HZS60X8/90X8/120X8/180X8/240C10C

Model	HZS60X8	HZS90X8	HZS120X8	HZS180X8	HZS240C10C
Theoretical Productivity (m3/h)	60	90	120	180	240
Mixer Capacity (L)	1000	1500	2000	3000	4000
Mixer Power (kW)	2×18.5	2×30	2×37	2×55	2×65
Max aggregate size (mm)	60	80	80	80	80
Suggested silo (t)	2×50	3×100	4×200	4×200	4×300
Suggested aggregate bin (m3)	3×10	3×17	4×17	4×25	4×25
Type of aggregate	3	3	4	4	4
Discharge height (m)	≥3.8	≥3.8	≥3.8	≥3.8	≥3.8
Installed power (kW)	110	190	210	250	280
Aggregate measurement accuracy (kg)	(600～2500) ±2%	(600～4000) ±2%	(600～4000) ±2%	(900-3000)±2%	(900-4500)±2%
Cement measurement accuracy (kg)	(100～700) ±1%	(200～1200) ±1%	(200～1200) ±1%	(300-1800)±1%	(400-2500)±1%
Mineral powder measurement accuracy (kg)	/	(200～800) ±1%	(200～800) ±1%	(200-1000)±1%	(200-1200)±1%
Water measurement accuracy (kg)	(80～250) ±1%	(150～500) ±1%	(150～500) ±1%	(200-800)±1%	(200-1000)±1%
Additive measurement accuracy (kg)	(8～20) ±1%	(15～60) ±1%	(15～60) ±1%	(15-80)±1%	(15-80)±1%
Reference weight (Ton)	40	59	92	106	132

Hoist Type Plant

HZS30G/60G/90G/120TC10

Small Area Coverage	Linear arrangement with skip hoist, small area coverage
Fast installation	Modular design, block-style installation, fast installation and transportation
Flexible Configuration	Multiple silos, bins and additives combinations
Easy Operation	Adaptive production, intelligent control, labor saving

Hoist Type

HZS30G/60G/90G/120TC10

Model	HZS30G	HZS60G Upgraded	HZS60G Standard	HZS90G	HZS120TC10
Theoretical Productivity (m3/h)	30	60	60	90	120
Mixer Capacity (L)	500	1000	1000	1500	2000
Mixer Power (kW)	2×18.5	2×18.5	2×18.5	2×30	2×37
Max aggregate size (mm)	60	60	60	80	80
Suggested silo (t)	1×50	2×50	2×50	2×100	4×200
Suggested aggregate bin (m3)	3×7	3×10	3×10	3×10	4×17
Type of aggregate	3	3	3	3	4
Discharge height (m)	≥3.8	≥3.8	≥3.8	≥3.8	≥3.8
Installed power (kW)	52	100	87	135	235
Aggregate measurement accuracy (kg)	(200-1000)±2%	(600-2500)±2%	(600-2000)±2%	(600-2000)±2%	(900～5000) ±2%
Cement measurement accuracy (kg)	(80-300)±1%	(100-700)±1%	(200-1000)±1%	(200-1200)±1%	(200～1200) ±1%
Mineral powder measurement accuracy (kg)	/	/	/	/	(200～800) ±1%
Water measurement accuracy (kg)	(40-140)±1%	(80-250)±1%	(80-300)±1%	(100-400)±1%	(100～400) ±1%
Additive measurement accuracy (kg)	(3-8)±1%	(8-20)±1%	(8-20)±1%	(15-50)±1%	(30～50) ±1%
Reference weight (Ton)	21	39	35	43.5	83


SANY
C10 Mixing Tower
HLS240/270/300C10
High Efficiency
Highest productivity in industry
Energy Saving
Lowest feeding height
Intelligent Operation
1-button startup and shutdown, 24h unattended operation
Accurate Inventory
Aggregate inventory, accuracy up to 95%

C10 Mixing Tower

HLS240/270/300C10

Model	HLS240C10	HLS270C10	HLS300C10
Theoretical Productivity (m3/h)	240	270	300
Mixer Capacity (L)	4000	4500	5000
Mixer Power (kW)	2×65	2×75	2×75
Silo Capacity (t)	4×300	4×300	4×300
Installed power (kW)	280	350	350
Aggregate measurement accuracy (kg)	(900～4500) ±1%	(900～4500) ±1%	(900～4500) ±1%
Cement measurement accuracy (kg)	(400～2500) ±1%	(400～2500) ±1%	(400～2500) ±1%
Mineral powder measurement accuracy (kg)	(200～1200) ±1%	(200～1200) ±1%	(200～1200) ±1%
Water measurement accuracy (kg)	(200～1000)±1%	(200～1000)±1%	(200～1000)±1%
Additive measurement accuracy (kg)	(15～80) ±1%	(15～80) ±1%	(15～80) ±1%
Discharge height (m)	≥3.8	≥3.8	≥3.8

03

PART

PART THREE

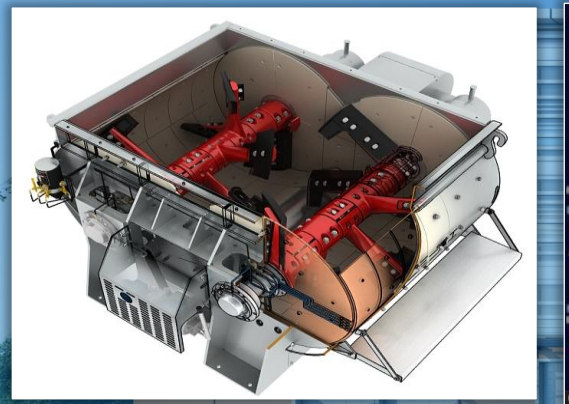
Product Advantages

Product Advantages

Efficient production

-Absolute productivity advantage，**20%** higher than industry's average

-The productivity of 2000L mixer can reach up to **110m³/h**



Boiling-type mixing

Mixing time 10% less

Extra strong power, full-loaded feeding, no overload startup failure, fitting all formulas.

Intelligent feeding

Waiting time 10% less

Sense the hopper status by big-data analysis, and close the discharge gate when empty.

Seamless material flow

Aggregate batching increased by 20%

Aggregate feeding time automatically calculated by intelligent algorithm, avoiding belt starving or overlapping.

Fully open discharge

Discharge time 30% less

Discharge according to slump, supporting fully-open discharge.

Product Advantages

Fast installation and transportation

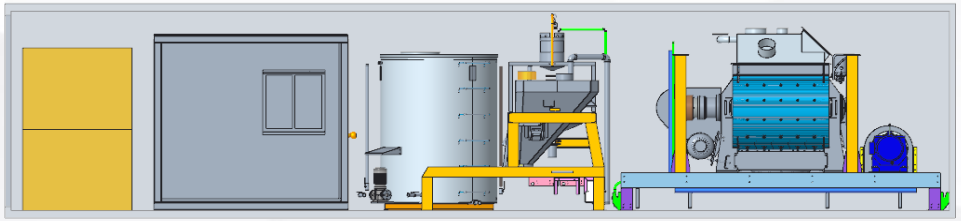
-Modular design， pre-assembled

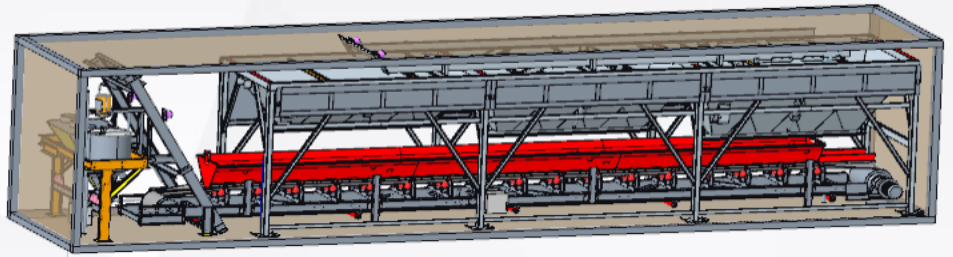
-Block-type lifting and assembling, fast installation and transportation

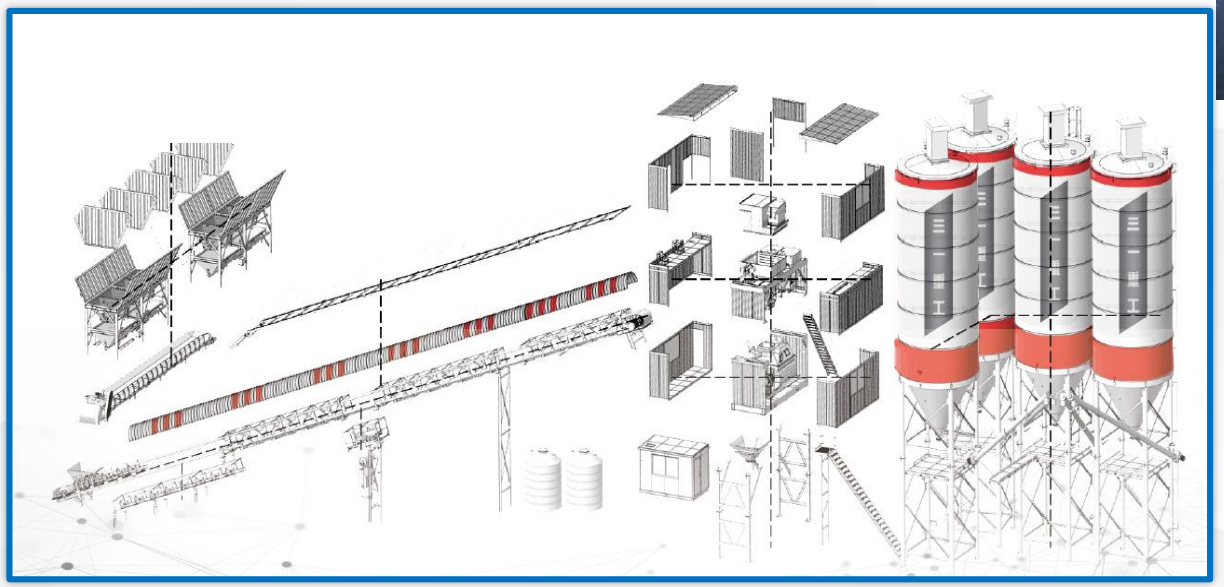
-All types smaller than 240 model can be delivered by standard container

-installation time shortened by **8** days

Block-type lifting







Modular design

Standard container transportation

Product Advantages

Accurate

-**Accurate weighing and feeding**, accuracy **≥ 99%,** which can be applied on high-speed rail construction

-Fully adapt to different raw materials and meet the production need of “**large plant small production**”

Accurate feeding

pulsating weighing for aggregate fine measurement; applying intelligent anti-arch technology and adjustable discharge gate.

High accuracy weighing

Automatic adjustment of parameters; self-adapted controlling the weighing mode and control curve of each weighing scale

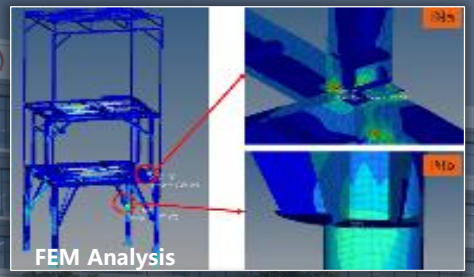
Adaptive water control

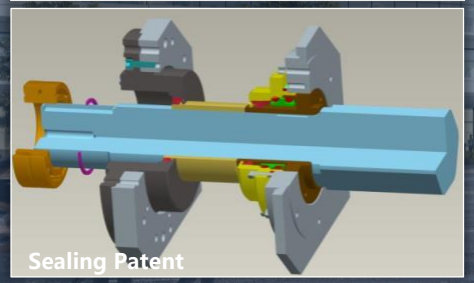
Accurate moisture detection for all models with water retaining technology

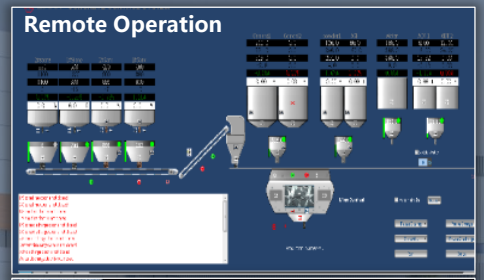
Product Advantages

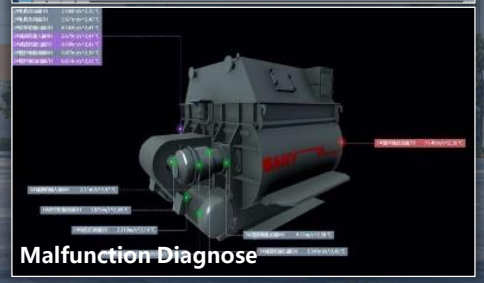
Reliable

More than 20,000 plants supporting infrastructure construction around the world









Reliable design

Wear-resisting lining plate and sealing patent technology; all key parts passed reliability test and digital simulation, and new technologies are verified by test.

Active diagnose

Malfunction self-diagnose, noticing the customer to operate safely in time; remote operation and service, faster response.

Strictly verified

All components are verified by practical working condition, which can work in high-temperature, cold and high elevation conditions.

Product Advantages

Intelligent

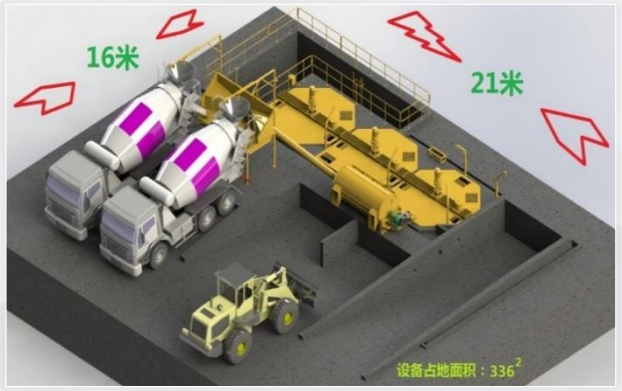
-Customized options for intelligent upgrading

Silo intelligent level

Accuracy reaches up to ±2% of max capacity, and dynamic inventory

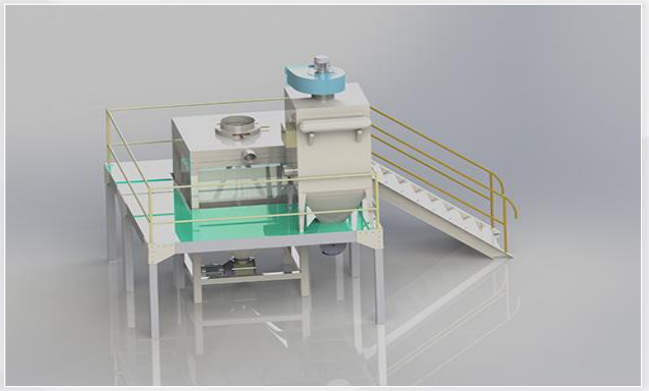
Intelligent low pressure powder feeding

Pressure meter, level meter and valves interacting with control system, avoiding overflow



Sand and drainage treatment

Integrated and independent treatment system, sand 100% reclaimed



Automatic bale opener

Unattended conveying system, high efficiency and automatic powder supply

Profits for Customer

Profit increased and cost reduced by 1.02 million RMB per year

More profits

0.9 million/year

Productivity 10% higher than industry

120 m³ more production per day

0.9 million RMB more profit per year

Less cost

80 thousand/year

Predictive maintenance, less shutdown time

50% less inspection and maintenance

Saving 80 thousand RMB per year

Saving consumables

40 thousand/year

Malfunction reduced by 50%

25% less lining plate replacement

Saving 40 thousand RMB per year

Note: 180 model, 0.2 million m³ annual production, profit 50RMB/m³, 150 working days, 8 h/day operation.

04

PART

PART FOUR

Intelligent Technologies

Intelligent Technologies

Intelligent Aggregate Feeding

The intelligent feeding control technology of the mixing building solves the linkage, matching and safety problems between the rear material yard and the mixing building, monitors and analyzes the status of each warehouse in the mixing building in real time, and realizes the self-balancing of supply and demand, and unattended feeding

Feeding Automation

One-button start, intelligent feeding on demand, unattended, reducing production personnel

High Feeding Efficiency

Belt utilization rate reaches 93.8%

Intelligent Technologies

Seamless Material Flow

Automatic identification of volume/proportion/aggregate feeding sequence/enabling and disabling of materials, smart adjustment of scale hopper discharge, no need to set feeding sequence and time interval, realizing belt seamless material flow, and increasing belt conveying efficiency by 20%

Seamless Aggregate Flow

Adaptively adjustment of the aggregate feeding interval according to production conditions realizing seamless aggregate flow and preventing overflow and spillage

First Batch Time Shortened by 10%

Smart adjustment of the aggregate feeding sequence according to the production formula, shortening the aggregate feeding time by 10%

Intelligent Technologies

Intelligent Material Level Detection for Silo

Based on micro strain sensor and temperature compensation algorithm, we can get the storage of silo online，accuracy up to ±2% of the silo maximum capacity

Accurate Detection

The sensor accurately detects the stress change, and the accuracy reaches ±2% of the maximum capacity

Real-time inventory

View the storage of silo by Computer or Phone anytime

Mutual review

Mutual cooperation of Control system， ERP and silo

Intelligent Technologies

Intelligent Discharge

Based on AI technology, it takes over the whole discharge process, perfectly realizes zero manual operation, effectively eliminates overflow and spillage, improves unloading efficiency

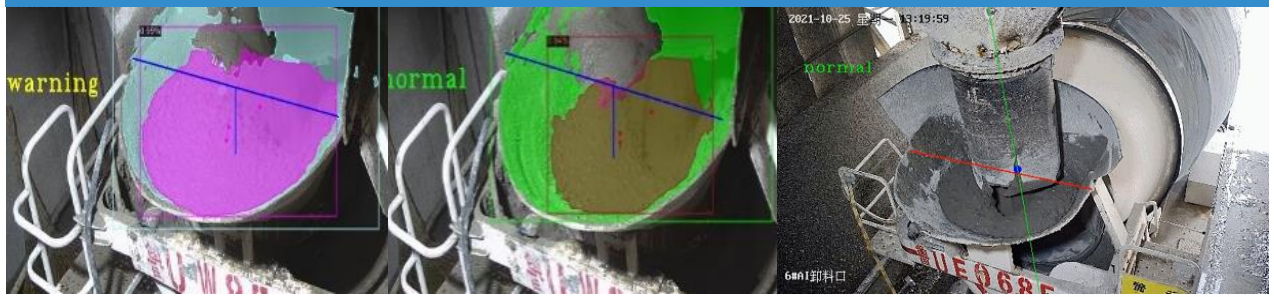
Unattended Discharge Process

Overflow and Spillage Eliminated

Discharge speed increased by 50%

AI for Aligning

AI for Avoiding Overflow



Application: 6 production lines are traditionally equipped with 6 people/shift, and only 3 people/shift needed after upgrading the intelligent discharge system.
The labor cost will be reduced by **360k RMB** per year, and the cost of environmental protection will be reduced by **12k RMB** per year.

Intelligent Technologies

Smart Waiting

It matches the optimal opening time of the waiting hopper according to the bulk density of the aggregate, displays the weight in the waiting hopper in real time, and avoids the risk of incomplete discharge and overflow of the waiting hopper

The aggregate conveying time is shortened by 4S

The time to wait for the hopper discharge is shortened by 2S

The risk of incomplete discharge and overflow is reduced to 0

Intelligent Technologies

Smart Backtracking

By applying digital video micro-server and integrating it into the control system, the monitoring and traceability of the production process can be realized, and the purpose of standardizing operator behavior and avoiding disputes can be achieved

Real-time monitoring and recording of the production process which can be replayed

Production history can be backtracked by reports

Intelligent Technologies

Online Detection for Aggregate Storage

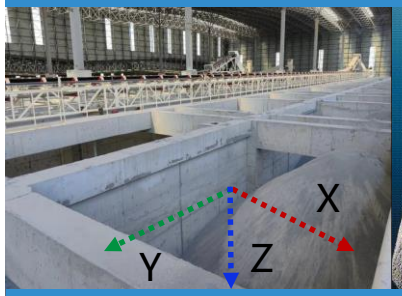
Based on AI technology, it takes over the whole discharge process, perfectly realizes zero manual operation, effectively eliminates overflow and spillage, improves unloading efficiency

Accurate 3D point cloud

Accurate inventory of aggregate warehouse storage

Adapted to harsh environment

Harsh Environment Interference Test



Point Cloud

Result Upload to ERP

Intelligent Technologies

Intelligent Weighbridge System

Unattended weighbridge system realizes the automation of the whole process of aggregate and powder weighing and storage, effectively strengthens the management of raw materials, which can be recognized in over 50 countries and regions

Intelligent Weighbridge

Online Monitoring

Real-time Weighing Display

Weighing Details

Region	Recognizable Country and Region	Region	Recognizable Country and Region
China	中国澳门Macau	Europe	俄罗斯Russia
	中国台湾Taiwan		英国United Kingdom
	中国香港HK		德国Germany
Asia	日本Japan		法国France
	韩国Korea		意大利Italy
	印度India		西班牙Spain
	马来西亚Malaysia		波兰Poland
	新加坡Singapore		罗马尼亚/Romania
	印尼Indonisia		乌克兰Ukraine
	越南Vietnam	Africa	肯尼亚Kenya
	菲律宾the Philippines		津巴布韦zimbabwe
	泰国Thailand		坦桑尼亚Tanzania
Latin America	智利Chile		阿尔及利亚Algeria
	巴西Brazil		埃及Egypt
	哥伦比亚Colombia		南非South Africa
	阿根廷Argentina		加纳Ghana
North America	加拿大Canada		尼日利亚Nigeria
	墨西哥Mexico	Former Yugoslavia	前南斯拉夫Former Yugoslavia
	美国US	Middle East	以色列Israel
Oceania	新西兰New Zealand		土耳其Turkey
	澳大利亚Australia		阿联酋UAE
CIS	哈萨克斯坦Kazakhstan		沙特Saudi
	乌兹别克斯坦 Uzbekistan		迪拜Dubai
	吉尔吉斯斯坦 Kyrgyzstan		科威特Kuwait
	塔吉克斯坦Tajikistan		
	土库曼斯坦 Turkmenistan		

Intelligent Technologies

Weight-free Calibration

Automatic calibration without weights is realized by establishing a mathematical model of weight and voltage, and the operating status of the weighing sensor is monitored in real time to realize fault self-diagnosis, eliminating measurement accidents, and ensuring production quality

Weight-free Calibration Operation Interface

Signal Convertor

Weighing Sensor Warning

Easy Calibration

The calibration process only needs to input parameters on the operation interface

Convenient Maintenance

Strong adaptability, and sensors can be replaced independently

Application: There are 3 production lines of a batching plant in Huizhou. Traditionally it takes 5 people and 2 days to implement weight calibration. Now with weight-free calibration technology, it can be carried out by 1 people within 1 hour by just just click the weight-free calibration button, which saves **10 to 30 thousand RMB per year.**

Intelligent Technologies

Silo Intelligent Management System

The system automatically identifies the silo position by QR code scanning or card swiping, and the operation box is correlated with the electronic lock, which can effectively avoid powder conveying mistakes and overflow

QR code scanning or card swiping for silo position reorganization	Overflow prevention	Device correlation	Management system

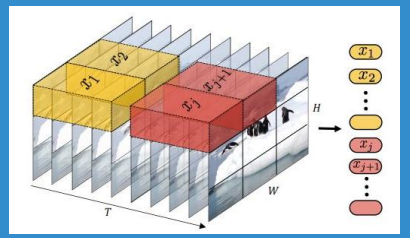
Intelligent Technologies (Piloted in Hong Kong)

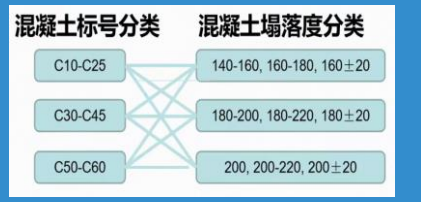
Slump Online Detection

By advanced AI vision algorithms and big data modeling, the intelligent detection and judgment of the slump of the plate can be realized, and the accuracy rate can reach the level of manual judgment of professional senior quality inspectors

Intelligent slump detection

Slump feature collection





AI vision model

Prediction of abnormal slump

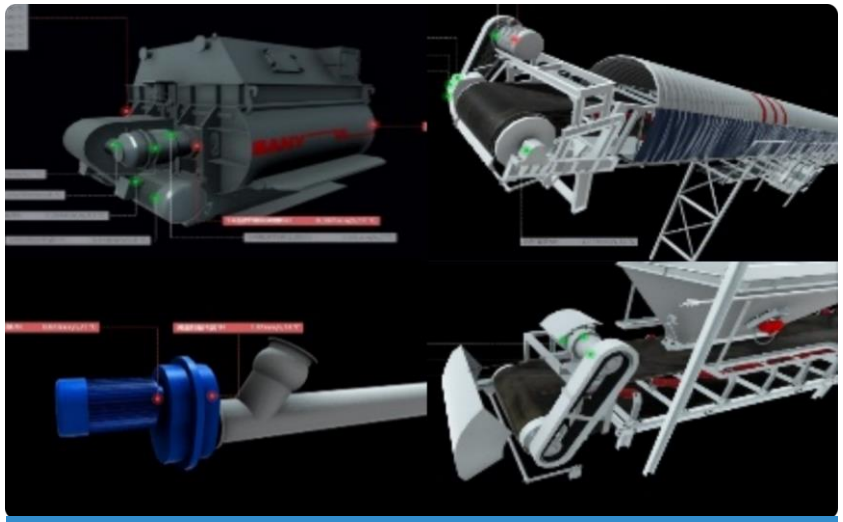
Slump storage and backtrack

Control system real-time alarm

Intelligent Technologies (Piloted in Hong Kong)

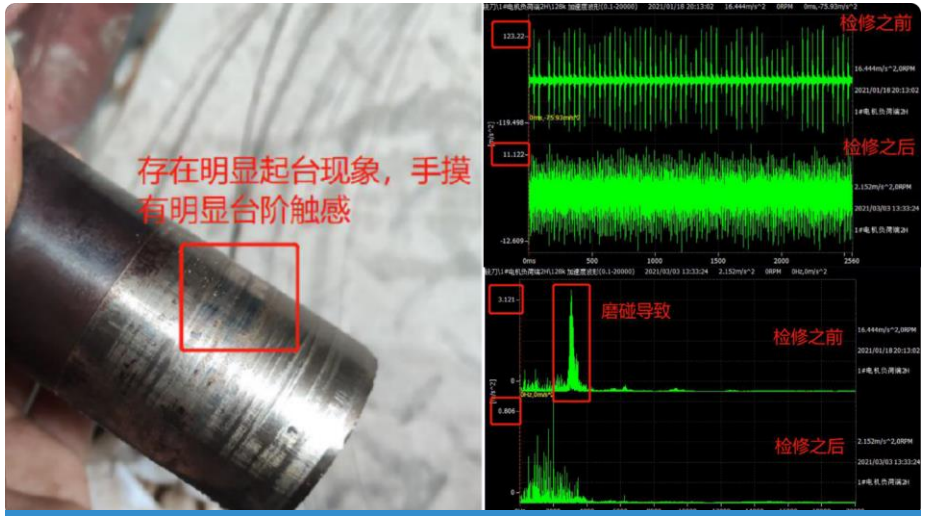
Predictive Maintenance

By collecting vibration, temperature and other data, and combining mechanism rules with machine learning algorithms, the technology is able to intelligently identify early failures in key parts such as motors, gearboxes, shafting and other equipment to reduce downtime losses



Key Parts

Intelligent Maintenance Warning



Early and fast failure located

Application: In a bathing plant in Anhui, on February 5, 2023, the system found that the inner ring of the bearing of the 1# motor of the mixer was worn. After the on-site dismantling on February 26, it was found that the motor and reducer were worn and deformed, and the output shaft of the motor was worn out. After the parts were replaced on site, the fault characteristics disappeared. According to the wear and tear of the motor, if the failure was not dealt with in time, the mixer will be shut down within 1-2 months, and the direct/indirect shutdown loss is estimated to exceed **100 thousand RMB**.

Intelligent Technologies (Piloted in Hong Kong)

Moisture Online Detection

Using microwave sensing technology to accurately detect the moisture of sand

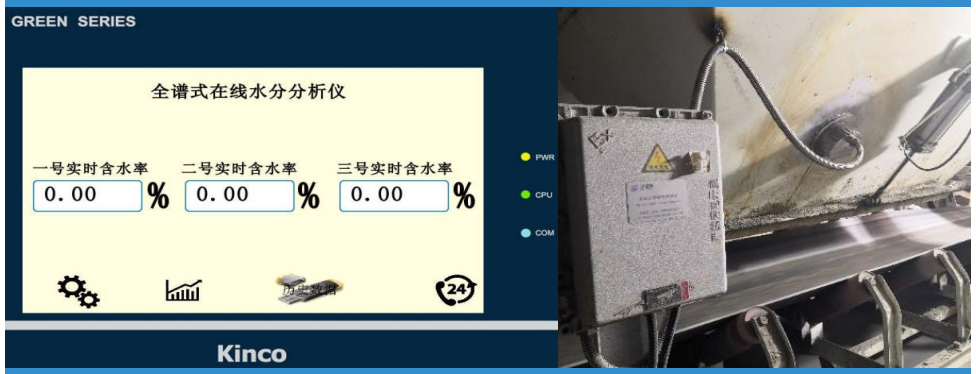
Intelligent

Automatically detection of the moisture content of the sand for each batch

Accurate

Precision can reach 0.5%

Non-contact installation



Contact installation

Intelligent Technologies (Piloted in Hong Kong)

Belt Intelligent Detection

AI vision detection is applied to realize real-time inspection of belt deviation status, and the system will push alarms for abnormal conditions, and effectively improves the safety level

Horizontal belt video frame

Inclined belt video frame

Scientific Maintenance

Early abnormal detection and timely maintenance

Comprehensive Care

24/7 real-time detection

Personnel Safety

Real-time monitoring of key areas to ensure production safety

05

PART

PART FIVE

Case Studies

Case Studies

United Arab Emirates

HZS180F8

The first company in the UAE to purchase complete sets of commercial concrete equipment from Sany. The plant participates in the world’ s largest solar thermal power plant project.

Russia

HZS90G

Delivered in 2022, purchased by a large building material company, supporting concrete supply in Moscow.

Philippines

HZS120X8

Delivered in early 2023, participating in the Philippine highway construction. It has become a benchmark plant for local engineering.

Bangladesh

HZS240C10C

Delivered in 2020, participating in the construction of Dhaka Airport in Bangladesh, and has produced millions of cubic meters of concrete.

Case Studies

Sany concrete batching plant has been exported to: Indonesia, Kazakhstan, Uzbekistan, Russia, Thailand, Philippines, Malaysia, etc.

Bangladesh HZS60X8

Vietnam HZS90X8

Uzbekistan 2HZS120X8

Uzbekistan 2HZS180F8

Saudi Arabia HZS240C8

Vietnam HZS180C8

China HZS180X8

Cambodia 2HZS240

Case Studies-Domestic Intelligent Technologies Applications

Xiong'an No.3 concrete batching plant cluster

—— The largest concrete batching plant cluster in China

Highlight Technology

Automated feeding

- 8m³ high level aggregate bin, no aggregate falling
- Saving 1.5 million RMB annually

Prevention

- Prevention for wrong aggregate, powder, etc.

Environmental batching plant

- Reducing 400T carbon emission per year
- No waste water, material or powder

Case Studies-Domestic Intelligent Technologies Applications

Qingdao KaiYe Concrete Mixing Company

—— Famous commercial concrete in China

Highlight Technology

Storage control

- Aggregate storage accuracy larger than 95%
- The accuracy of silo level detection up to ±2% of the silo maximum capacity

Material detection

- Classifying aggregate to avoid mistake
- Automatic material report

Environmental

- Photovoltaic power generation

The first "Intelligent Manufacturing Innovation Center" in China

Case Studies-Domestic Intelligent Technologies Applications

Huizhou No.1

—— New type environmental and intelligent park

Highlight Technology

Digital

- Online detection, automatic maintenance, remote operation……

Intelligent discharge

- AI controlling discharge process, the speed of discharge improved by 50%

Weight-free calibration

- Calibration without weight
- Online detection for weighing sensor

Case Studies-Domestic Intelligent Technologies Applications

BeiYuan Commercial concrete

—— Intelligent reformation of concrete batching plant

Highlight Technology

Cost of labor reduced by 50%

- Intelligent production
- Data displayed on the intelligent screen

Production efficiency improved by 12%

- ERP showing the status of production in real time, avoiding the mistake

Income improved by 190%

- The profit margin of cost improved by 65%（compared with last year）


THANKS