



ASPHALT PLANT

沥青搅拌站



NOTES
ZOOMLINE Machinery Co., Ltd follows the principle the performance of the products
Materials and specification are subject to change without notice.
The ultimate explanation of this atlas belongs to ZOOMLINE machinery co., Ltd



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专业沥青搅拌站生产商
Professional Asphalt Mixing Plant Manufacturer

ABOUT ZOOMLINE

Henan ZOOMLINE Machinery Co., Ltd. is a high-tech enterprise specializing in R&D, production, sales and service of road construction machinery. Headquartered in Zhengzhou with a manufacturing base in Nanyang, we have advanced R&D and manufacturing facilities.

Our core products include asphalt mixing plants, concrete batching plants, pulverized coal production lines, MFR-S series coal burners, pulverized coal hot air generator etc., widely used in highways, urban roads, bridges, airports and other infrastructure projects. Our products are ISO9001, CE, and EAC certified, and exported to over 80 countries and regions worldwide, earning trust from global markets. Guided by the philosophy of "Cost-effective solutions for your project", we aim to become a globally renowned road machinery brand.



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STATIONARY BATCH ASPHALT MIXING PLANT

固定
间歇式
沥青搅拌站

Stationary batch type asphalt mixing plant is designed by excellent structure which can make sure high quality asphalt mixture and high working performance. Batch type asphalt mixing plant comes from Europe, and adopted by China and many countries now. Main parts includes: cold aggregate feeding system, drying drum, mixing tower, bitumen supply system, filler system, dust filtering system and control system.

ZOOMLINE Batch type asphalt mixing plant adopts European technology, the whole plant features including high performance, reliable operation, compact structure, modular design, low failure etc. ZOOMLINE produces and supplies batch type asphalt mixing plant with capacity from 40TPH to 400TPH for whole world.

COMPONENTS

Mixing Tower

搅拌楼

High efficiency vibrating screen

Improved vibration and amplitude to optimize impact on the available screen; Wear-resistant charging system with uniform distribution of the particle mix; Wide open doors for easy access and screen meshes are simple to replace, so the down time is reduced; The best combination of vibrating direction & screen box dip angle, ensure ratio and screening efficiency.

Accurate weighing

Adopting METTLER TOLEDO weighing sensor makes sure accurate weighing, in order to make sure the asphalt mixture quality.

Reliable cylinder and magnetic valve

Adopting FESTO/AIRTAC cylinder and magnetic valve helps working reliably and extending service time and reduce failure ratio.

Excellent mixing quality and efficiency

Mixer are designed with long arms, shortened shaft diameter and a bi-directional mixing blades array; the mixer discharging process has been completely redesigned, the discharge time is minimal now; The distance between blades and bottom of the mixer is also restrained to the optimal minimum.



Vibrating Screen

振动筛

- High wear resistance screen (65Mn) with longer working life and lower maintenance cost. The size can be designed according to customers' requirements.
- Draw and push type of screens are easy and convenient to maintain.
- Types of vibrating screen we can supply: Single-shaft vibration screen, Double-shaft vibration screen and Vibration motor type vibrating screen.
- Rated capacity of our vibrating screen: 40-80T/H with 4 layers, 80-160T/H with 4 layers, 240T/H with 5 layers, 320T/H-400T/H with 5 or 6 layers, and other customized specifications.



Dust Collecting System

布袋除尘器

Eco-friendly Gravity primary dust collector collector and recycling bigger fine reduces consumption, saves consumption; Bag house secondary dust filter control emission is lower than 20mg/Nm3, which is eco-friendly.

High temperature resistance Adopting USA Dupont NOMEX filter bags, high temperature resistance and long service life, and the filter bags can be replaced easily and quickly with no need for special tools.

Safety Intelligent temperature and control system, when the dust air temperature is higher than set data, cold air valve will be opened automatically for cooling, avoiding the filter bags being damaged by high temperature.

Removing dust thoroughly high pressure pulse cleaning technology contributes to a lower bag wearing, longer life span and better dust removal performance.



Mixer

搅拌缸

Mixer is designed with 3D mixing design, with long arms, shortened shaft diameter and a bi-directional mixing blades array.

The distance between blades and bottom of mixer is also restrained to the optimal minimum.

Bitumen is sprayed from multi-points evenly over aggregate by a pressurized pump to achieve full coverage and high mixing efficiency.

The mixer discharging process has been completely redesigned, the discharge time is minimal now.

Large sliding gate at the bottom allows speedy discharge of hot mixture form the mixer.



Drying System

干燥系统

Energy saving

The blade geometry of the dryer has been optimized to deliver an exceptionally efficient drying and heating process with reduced energy consumption, improves heating efficiency by 30% than conventional design; Because of High heating efficiency, drum surface temperature is relatively low, so the cooling time after operation is considerably shorted.

Long service life

Body and material blade adopt boiler iron, cover stainless steel on surface, and adopt plastic material for friction driving roller, increase the service life.

Low heat lost

HONEYWELL temperature intelligent control system helps burning sommthly and covered heat insulation material reduces heating lost.

Low emission

Adopt high combustion efficiency Italian ENERGY/EBICO burner, low exhaust gas emission (low CO2,low No1 & No2, So2, User can select a more cost effective fuel according to latest market prices (diesel, heavy oil, bulk oil, natural gas, liquefied gas, coal).



International and domestic well-known brands

Oil or gas burners

High combustion efficiency;

Automatic control, easy operation;

Long service life, low failure rate.

ZOOMLINE Coal burner

High performance, combustion stability.

PLC control, easy control.

Low emission and low cost.



Control System

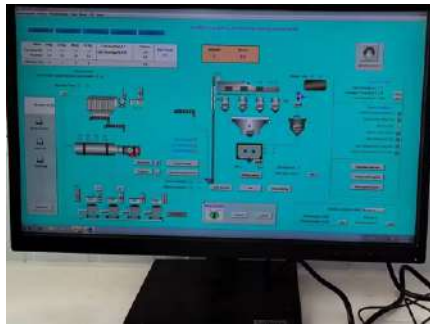
控制系统

Adopting Switzerland METTLER TOLEDO weighing modular improves weighing accuracy. Adopting HONEYWELL temperature intelligent control system makes control accurately and easily, makes sure burning smoothly and high quality of asphalt mixture. Adopting Germany SIEMENS electrical element, it helps working stably even in harsh working environment. Adopting Germany SIEMENS PLC+Computer, with automatic data sheet control, makes it having high data processing capacity; Various operation data can be saved real-times.

All system power switches can be controlled via control panel, easy operation and control.
Multi-language compatibility, display language can be selected according to the customer's preference.
Control cabinet adopts IP55 safety protection class which can match highest industrial standard in whole globe.
Containerized control room, with heat insulation and sound insulation layer.
Global remote automatic detection function.



Operating table



Operation interface



SIEMENS electronic components

Cold Aggregate Storage Bin System

冷骨料存储及供给系统

- Controlled by frequency converter, feeding smoothly.
- Alarming device for material shortage.
- Adopt seamless belt, long service life.
- Vibrator avoiding the phenomenon of blockage of sand bin.
- Screen with 100 x 100 mm mesh to remove out the over size aggregate.



ZAP-S ASPHALT MIXING PLANT

TECHNICAL PARAMETER

ZAP-S系列沥青搅拌站技术参数

Model	ZAP-S40	ZAP-S60	ZAP-S80	ZAP-S100	ZAP-S120	ZAP-S160	ZAP-S200	ZAP-S240	ZAP-S320	ZAP-S360	ZAP-S400
Plant capacity	40t/h	60t/h	80t/h	100t/h	120t/h	160t/h	200t/h	240t/h	320t/h	360t/h	400t/h
Cold aggregate feeding system											
Hopper capacity	4 x 4.5m³	4 x 4.5m³	4 x 6.5m³	4 x 6.5m³	4 x 8m³	5 x 8m³	5 x 8m³	5 x 10m³	6 x 10m³	6 x 15m³	6 x 15m³
Belt capacity	60t/h	80t/h	100t/h	120t/h	140t/h	180t/h	220t/h	280t/h	360t/h	380t/h	420t/h
Drying system											
Drying drum size	1200x5200mm	1300x5500mm	1300x6600mm	1500x6600mm	1800x8000mm	1950x8500mm	2200x9000mm	2400x9500mm	2800x10200mm	3000x10500mm	3600x10800mm
Drying capacity	40-60t/h	60-70t/h	80-100t/h	100-120t/h	120-140t/h	160-180t/h	200-220t/h	240-260t/h	320-360t/h	360-380t/h	400-420t/h
Burner	Optional oil, gas, coal										
Mixing tower											
Screen	4 layers					4/5/6 layers	5/6 layers		6 layers		
Aggregate weighing	3x500kg	3x1000kg		3x1500kg		3x2000kg	3x3000kg		3x4000kg	3x5500kg	3x6000kg
Bitumen weighing	3x100kg			3x200kg			3x500kg			3x600kg	3x700kg
Filler weighing	3x100kg			3x200kg			3x500kg			3x600kg	3x700kg
Mixer capacity	500kg	800kg	1000kg	1300kg	1500kg	2000kg	2500kg	3000kg	4000kg	4500kg	5000kg
Mixing cycle	45s										
Dust collecting system											
Bag house filtering	200m²	300m²	430m²	480m²	550m²	650m²	700m²	1050m²	1350m²	1700m²	1750m²
Exhaust fan power	18.5/22kW	30/37kW	45kW	55kW	2x45kW	2x55kW	2x75kW	2 x 90kW	2 x 110kW	2 x 135kW	2 x 180kW
Asphalt temperature	140-180℃										
Finished asphalt silo (optional)			30 ton			60 ton	100 ton		100/200 ton	100/260 ton	100/300 ton
Total power	150kW	180kW	270kW	300kW	390kW	500kW	570kW	640kW	800kW	860kW	900kW



BATCH TYPE MOBILE ASPHALT MIXING PLANT

移动间歇式沥青搅拌站

SUMMARY

Mobile asphalt mixing plant is principally used in construction of roads project on small or medium scale. Mobile type asphalt mixing plant is basically designed for effortless assembling and disassembling for convenient moving from one project site to another often. Mobile asphalt mixing plant can greatly save the time and costs of installation.

FEATURES

- Modular design is convenient and fast to move and install.
- Screening, hot storage, weighing and mixing are on one folding frame, which can realize mixing tower in one track to trail.
- Less transport vehicles and installations requires no tradition foundation works, which is easy for transportation.
- Compact structure, occupied area is smaller.
- Accurate screening, accurate weighing and batch forced mixing, make sure that asphalt mixture is high quality.



Model	ZAP-M60	ZAP-M80	ZAP-M100	ZAP-M120	ZAP-M160	ZAP-M200	ZAP-M240	ZAP-M320
Plant capacity	60t/h	80t/h	100t/h	120t/h	160t/h	200t/h	240t/h	320t/h
Cold aggregate feeding system								
Hopper capacity	4 x 4.5m³	4 x 6.5m³	4 x 6.5m³	4 x 8m³	5 x8m³	5 x12m³	5 x12m³	5 x15m³
Belt capacity	80t/h	100t/h	120t/h	140t/h	180t/h	220t/h	260t/h	340t/h
Drying system								
Drying drum size (mm)	1300x5500	1300x6600	1500x6600	1800x8000	1950x9000	2200x9000	2400x9000	2600x9000
Drying capacity	60-70t/h	80-100t/h	100-120t/h	120-140t/h	160-180t/h	200-220t/h	240-260t/h	320-340t/h
Burner	Optional oil, gas, coal							
Mixing tower								
Screen	4 layers				4/5 layers	5 layers		
Aggregate weighing	3x800kg	3x1000kg	3x1500kg		3x2000kg	3x3000kg		3x5000kg
Bitumen weighing	3x80kg	3x100kg	3x200kg			3x500kg		3x550kg
Filler weighing	3x100kg		3x200kg			3x500kg		
Mixer capacity	800kg	1000kg	1300kg	1500kg	2000kg	2500kg	3000kg	4000kg
Mixing cycle	45s							
Dust collecting system								
Bag house filtering	300m²	380m²	400m²	500m²	550m²	650m²	700m²	1050m²
Exhaust fan power	37kW	45kW	55kW	75kW	90kW	110kW	160kW	200kW
Asphalt temperature	140-180℃							
Finished asphalt silo (optional)	15 ton	30 ton	30 ton	30 ton	60 ton	100 ton	100 ton	100/200 ton
Total power	185kW	270kW	300kW	390kW	500kW	570kW	640kW	800kW



T-TYPE MOBILE BATCH ASPHALT PLANT

T型移动间歇式沥青搅拌站

SUMMARY

Leveraging advanced technology, the ZAP-M'T series is widely used in the construction of airport runways, ports, roads, and bridges. This equipment is ideal for the emergency construction of specialized roads.

With a modular design and compact construction, the asphalt plant is easy to install, transport, and dismantle. Each unit operates independently while allowing for seamless connections between them.

FEATURES

- Adopt mobile asphalt plant structure design, high mobility performance, small land occupied, convenient transportation and little downtime.
- Adopt AVIC brand Aviation Plugs, easy connection, fast disassembly and assembly wires.
- Simple and convenient production technology process, accurate, highly reliable and stable control system.
- Move fast. Save costs.
- System of drying, weighing, mixing, discharging are full-automatically controlled.
- All the units are separated mutually while each unit can achieve seamless connection.



Model	ZAP-M60T	ZAP-M80T	ZAP-M100T	ZAP-M120T	ZAP-M160T	ZAP-M200T
Plant capacity	60t/h	80t/h	100t/h	120t/h	160t/h	200t/h
Cold aggregate feeding system						
Hopper capacity	4 x 4.5m³	4 x 6.5m³	4 x 6.5m³	4 x 8m³	5 x8m³	5 x8m³
Drying system						
Drying drum size (mm)	1300x5500	1300x6600	1500x6600	1800x8000	1950x9000	2200x9000
Drying capacity	60-70t/h	80-100t/h	100-120t/h	120-140t/h	160-180t/h	200-220t/h
Burner	Optional oil, gas, coal					
Mixing tower						
Screen	4 layers			4/5 layers		5 layers
Aggregate weighing	3x800kg	3x1000kg	3x1500kg		3x2000kg	3x3000kg
Bitumen weighing	3x80kg	3x100kg	3x200kg			3x500kg
Filler weighing	3x100kg		3x200kg			3x500kg
Mixer capacity	800kg	1000kg	1300kg	1500kg	2000kg	2500kg
Mixing cycle	45s					
Dust collecting system						
Bag house filtering	300m²	380m²	400m²	500m²	550m²	650m²
Exhaust fan power	37kW	45kW	55kW	2x45kW	2x55kW	2x75kW
Asphalt temperature	140-180℃					
Mobile filler silo						
Filler silo	30m³ (Volume optional)					
Recycling filler silo	30m³ (Volume optional)					



SUPER MOBILE BATCH MIX ASPHALT PLANT

超级移动间歇式沥青搅拌站

SUMMARY

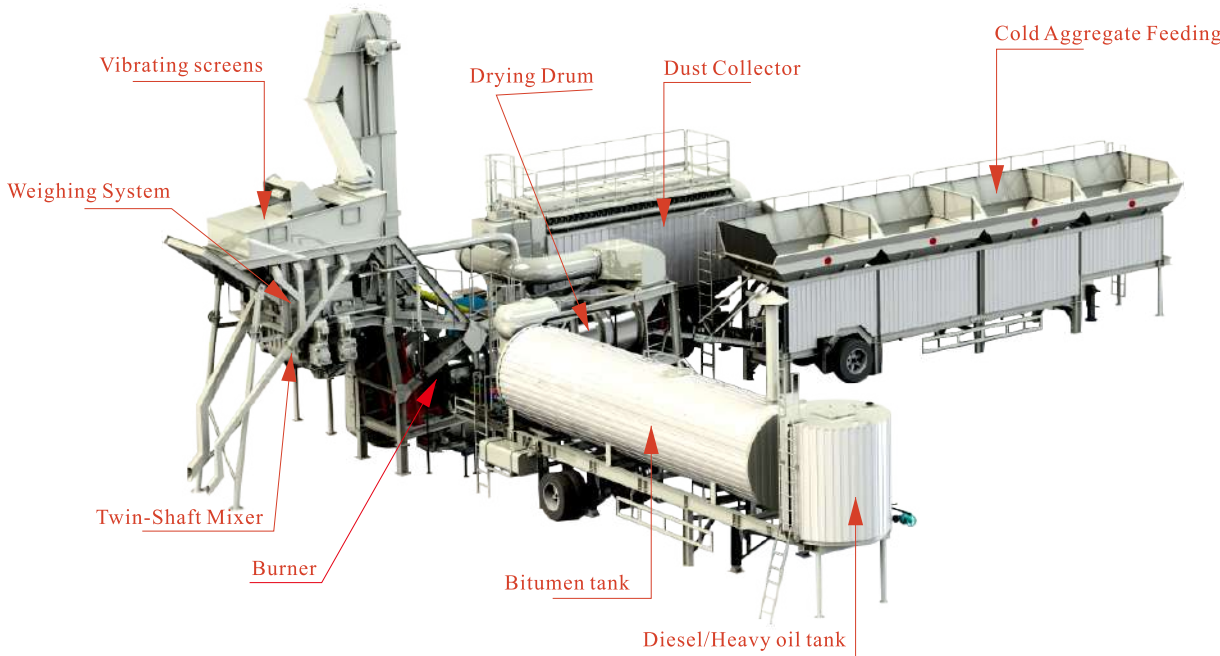
The ZOOMLINE ZAP-ME series features a semi-trailer design, enabling fast relocation and transfer. This high-integration plant is ideal for projects requiring mobility and efficiency.

FEATURES

- Fast relocation and transfer: No secondary assembly is required at the construction site. All cables are installed and debugged before leaving the factory, and only cable connections between the frames are needed during each transition.
- High integration: Cold aggregate, drying, screening, measuring, mixing, and all other main equipment can be integrated on one chassis.
- Semi-trailer design, standard tractor towing: Suitable for international standard 50# and 90# trailer couplings. It meets various traction interface requirements such as 4x4 and 6x4.
- The trailer design meets general safety requirements for vehicles, including main and passive safety measures such as brakes and a full vehicle electrical system. It complies with requirements for driving on general highways and expressways.
- Multiple configuration combinations are available to meet different construction needs. The number of aggregate silos, dust removal methods, fuel types, etc., can be selected and customized.
- No foundation design required: Suitable for frequent relocation, reducing equipment foundation construction and lowering operating costs. The Mixing Section & Hot Stone.
- Elevator and mixing section can be raised into their operating position within minutes using a hydraulic system, eliminating the need for cranes.



Model	ZAP-M40E	ZAP-M60E	ZAP-M80E
Capacity	30-40th	50-60th	80-90t/h
Feeder	3/4/5/6 optional		
Drying capacity	30-40t/h	50-60th	80-90t/h
Burner	Diesel, heavy oil, lng, coal		
Dust collector	Gravity dust collector+ bag filter		
Filler silo	New filler silo+reclaimed filler silo optional		
Mixer capacity	500kg	800kg	1000kg
No. of screen layers	3/4/5 layers		
Finished product hopper	Side-by-side finished storage silo		
Bitumen tanks	Burner directly-heating/ Hot oil heating/Electrical-heating		
Horizontal/vertical			
Control system	PLC+PC Control with CCTV monitoring system and remote diagnosis		



SUPER MOBILE CONTINUOUS ASPHALT MIXING PLANT

超级移动连续式沥青搅拌站

SUMMARY

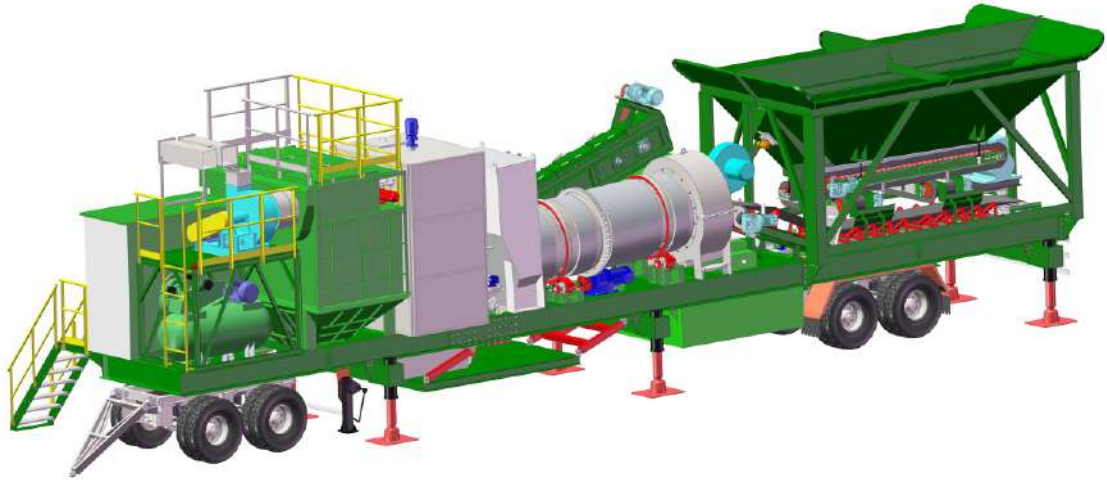
What sets the ZOOMLINE Super mobile continuous asphalt mixing plant apart is its mobility and flexibility. Unlike traditional fixed facilities, this plant can be easily transported and set up on-site, allowing for quick adaptation to various construction environments. This versatility significantly reduces operational costs while maintaining the high production standards typically associated with stationary plants.

Super mobile continuous asphalt mixing plant realizes the high integration of asphalt plant, and one transport trailer can realize all the functional requirements of the asphalt mixing plant (filling, drying, mixing, storage of finished products, operation), which meets the user's requirements for fast installation, fast transition, and rapid production.

Up to now, our "Super Mobile Continuous Asphalt Mixing Plant" has been exported to Europe, Africa, North America etc. The convenience of fast transportation, transfer, and rapid recommissioning greatly saves the costs and improves the construction efficiency.



Model	ZAP-C20M	ZAP-C40M	ZAP-C60M	ZAP-C80M	ZAP-C120M	ZAP-C160M	ZAP-C200M
Rated output (t/h)	20	40	60	80	120	160	200
Oil consumption(kg/t)	≤7						
Total power (kW)	50	69	110	150	210	210	240
Dimension(l×w×h)m	15.5×3.1×4.48	17.9×3.1×4.48	21×3.1×4.48	21×3.1×4.48	21.5×3.1×4.48	22.5×3.1×4.48	23×3.1×4.48
Amount of axles	2				3		4
Volume of cold feed bins	4.5m³	2x4.5m³	3/4x4.5m³	4x6.5m³	4x8m³	5x8m³	5x8m³
Size of drum(diameter×length)	Ø1.2x3.8m	Ø1.2x5.2m	Ø1.5x7m	Ø1.5x7m	Ø1.8x8.5m	Ø1.95x8.5m	Ø2.2x8.5m
Driving power of drum (kW)	7.5	15	4x5.5	4x7.5	4x11	4x15	4x18.5
Type of dust collector	Bag house filter(water dust removal optional)						
Filter area	115m²	150m²	210m²	260m²	350m²	400m²	450m²
Power of induced draft fan (kW)	11	18.5	30	37	55	75	90
Volume of finished product silo	Standard 1.5m³, optional 7.5m³, 20m³ (or other requirements)						
Operation methods	Manual/automatic						
Type of mixing	Continuous type						
Bitumen heating way	Electrical heating,thermal conductin oil heating, direct heating						
Measurment of bitumen	Flow measurement						
Temperature of finished asphalt	130℃～160℃						



20-40T/H Continuous Asphalt Plant



60-80T/H Continuous Asphalt Plant



120T/H Continuous Asphalt Plant

CONTINUOUS ASPHALT MIX PLANT

连续式沥青搅拌站

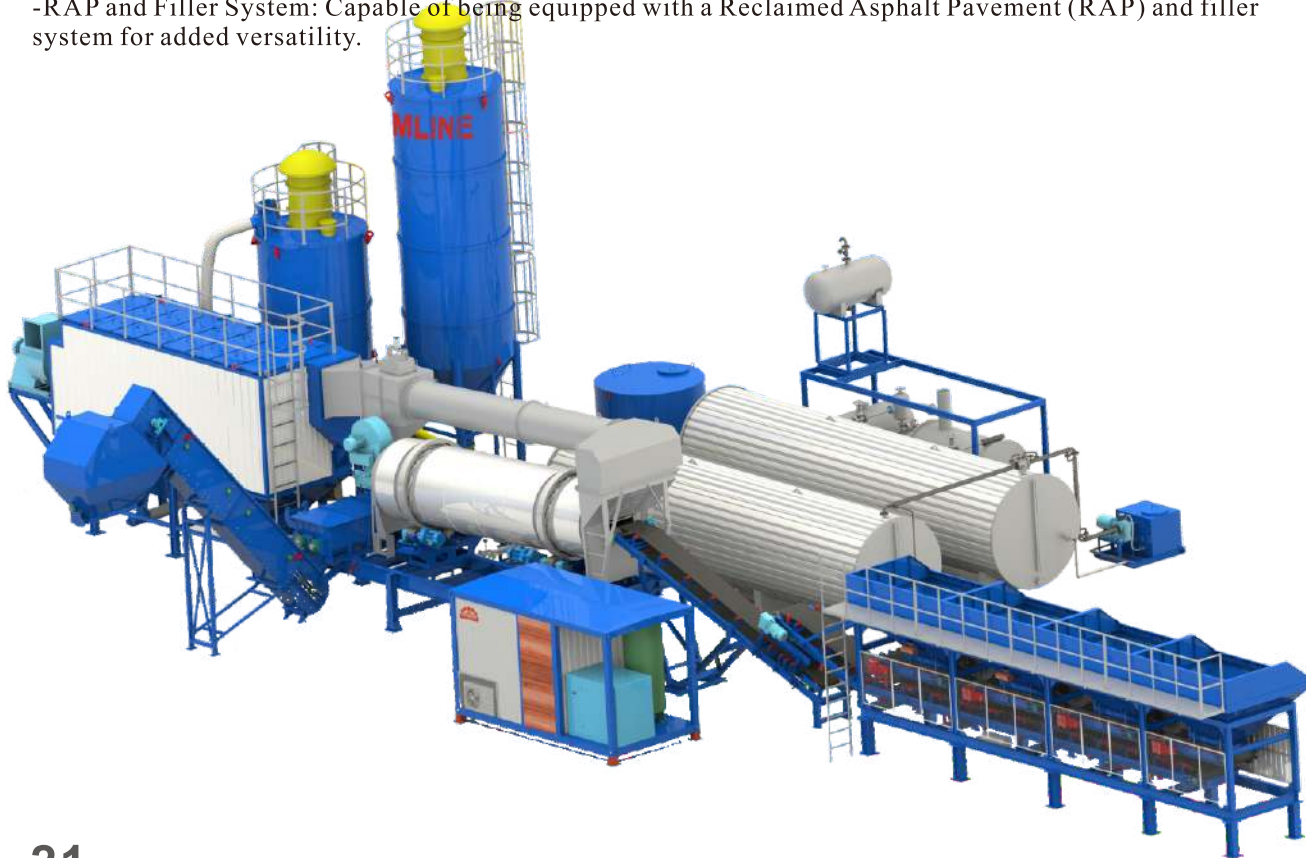
SUMMARY

The ZOOMLINE ZAP-C series is a continuous-type asphalt mixing plant designed for the uninterrupted production of asphalt mixtures. This plant operates differently from traditional batch asphalt mixing plants, offering enhanced efficiency and consistency in output.

Continuous asphalt mixing plant is mainly composed of cold aggregate supply system, drying drum, continuous mixer, burning system, dust collecting system, finished asphalt storage silo, bitumen supply system and control system.

FEATURES

- Simple Structure: Easy to move and maintain, requiring low equipment investment.
- Parallel Drying Drum: The parallel type drying drum structure enhances heating efficiency for aggregates, resulting in lower fuel consumption and energy savings compared to counter-flow types.
- Separated Continuous Mixer: High mixing performance ensures consistent quality of the asphalt mixture.
- Scraper Type Elevator: Facilitates smooth and efficient cleaning of the asphalt mixture.
- RAP and Filler System: Capable of being equipped with a Reclaimed Asphalt Pavement (RAP) and filler system for added versatility.



Model	ZAP-C20	ZAP-C40	ZAP-C60	ZAP-C80	ZAP-C120	ZAP-C160	ZAP-C200
Plant capacity	20t/h	40t/h	60t/h	80t/h	120t/h	160t/h	200t/h
Cold aggregate feeding system							
Hopper capacity	3x4m³	4x4.5m³	4x4.5m³	4 x6.5m³	4x8m³	5x8m³	5x8m³
Belt capacity	40t/h	60t/h	80t/h	100t/h	140t/h	180t/h	220t/h
Drying system							
Drying drum size (mm)	1000x4500	1200x5000	1500x6500	1500x6500	1800x8000	1950x9000	2000x9000
Drying capacity	15-25t/h	40-50t/h	60-70t/h	80-100t/h	120-140t/h	160-180t/h	200-220t/h
Burner (optional coal, oil , gas,oil and gas dual-use burner)							
Dust collecting system							
Exhaust fan power	5.5kW	7.5kW	30kW	37kW	55kW	75kW	95kW
Finished Asphalt silo	Standard 1.5m³, other volumes optional (side-mounted)						
Asphalt Temperature	130-160℃						
Total power	27kW	57kW	92kW	100kW	135kW	180kW	270kW



RECYCLING ASPHALT PLANT

沥青再生一体机

On the basis of many years of construction experience and advanced practices both domestically and internationally, the ZOOMLINE Asphalt Recycling Mixing Plant (RAP) series addresses the significant challenge of adhesion in recycled asphalt materials. Through independent innovation and research, this series enables the normal addition of asphalt during recycling operations.

The plant maintains regular production while incorporating a specific proportion of recycled asphalt into the mixer with aggregates, increasing output and reducing production costs. To achieve this, the capacity of the mixer is enhanced, and a bag dust collector is included to support heat regeneration equipment.

The configuration of the integral asphalt recycling plant in ZOOMLINE is versatile. A separate mixing tank for recycled bitumen and regenerant can be integrated into the main recycling unit based on customer requirements, offering a variety of customization options.



- Excellent cost-effective - Drying, mixing, surplus design dust removal, high overall output. The drying drum and mixer using long life wear-resistant parts with long service life.
- High efficiency and energy saving - The burner adopts high efficiency medium atomization and high combustion efficiency. The thermal storage bins are insulated, and thermal insulation measures are adopted for all the heat operation steps.
- Environmental protection - the whole station has packaging, dust removal, ventilation and other equipment. The storehouse is equipped with bituminous smoke treatment equipment.
- Reliable operation - Key components adopt international first-class brands, and transmission parts have safety protection devices.
- Easy to expand - the whole station adopts modular design concept, and the functional components are easy to expand. A variety of customization needs can be provided.



Model	ZAP-S80&RAP60	ZAP-S120&RAP60	ZAP-S120&RAP80	ZAP-S160&RAP80	ZAP-S160&RAP120	ZAP-S200&RAP120	ZAP-S240&RAP120	ZAP-S240&RAP160	ZAP-S320&RAP160
Raw material production capacity under standard Conditions (t/h)	80	120	120	160	160	200	240	240	320
Rap production capacity under standard conditions	60	60	80	80	120	120	120	160	160
Total output of equipment under standard conditions (including rap) (t/h)	120	180	200	240	280	280	320	360	400
Installed power(kW)	265+130	370+130	370+150	500+150	500+210	570+210	640+210	640+300	870+300
Emission concentration	<30mg/Nm³ (Bag house dust filter)								
Environmental noise	<80 db (control room)								
Mixer capacity(kg/b)	1500	2000	2500	3000	3500	3500	4000	4500	5000
Measuring accuracy	Static: Aggregate: 0.5% Powder: 0.3% Asphalt: 0.2% Recycled material: 0.5% Additive: 0.2%								
Filtering area(m²)	650	700	770	1050	1150	1150	1350	1350	1600
Rap add ratio	50%	50%	50%	30%	40%	40%	35%	50%	40%
Optional items	1. Bitumen smoke treatment system. 2. The whole station package and dust collecting system. 3. Foam asphalt system (warm mixing system).								

ECO-FRIENDLY ASPHALT MIXING PLANT

环保型沥青搅拌站

As a professional R&D manufacturer of asphalt mixing plant, how to make the asphalt mixing plant more energy-efficient and more eco-friendly has always been the aim of ZOOMLINE Machinery.

For the pollution problems from the asphalt mixing plant, we have launched a Eco-friendly asphalt mixing plant with the strict environmental protection standards. From the storage, transportation, heating, mixing and unloading of the asphalt and aggregates, we have achieved the goal of environmental protection and effective control. It becomes the pioneer of environmental transformation of asphalt mixing plant because it can be controlled for the producing harmful flue gas, dust and high energy consumption in the production process.

Dust collection: Negative pressure treatment of the mixing tower, the part of vibrating screen, weighing, mixing and hot storage silo are all equipped with a negative pressure device, which can control the emission of the dust in the main tower from the root. The dust removal system adopts a rotary back flushing dust collector, two-stage dust removal and off-line cleaning. Efficient dust removal system.

The design specially in over-limit material, overflow temporary storage bin, fully enclosed overflow hopper, overflow material, over-limit material hoarding treatment, not directly discharged and centralized treatment when storage silo is full that can be prevented the dust's emission from the continuous flashing.

The aggregate is stored by sealing and the material yard is enclosed fully to prevent the dust from flowing outwards. It avoids the increaseing moisture of aggregates because of the rain in the open air to reduce the additional energy consumption in drying the aggregate.

Cold feed bins and belt dust removal system: The three-side all-package of the batching station solves the dust problem of the raising dust. The feeding belt is encapsulated, the batching system is increased by the controllable negative pressure encapsulation, and the suction belt is added at the feeding belt to solve the dusting problem of the belt conveyor.

For the waste dust emitted from recycled waste powder, we use the Self-research and development's waste powder processor. It can control the amount of recycled powder, accurately control the water-cement ratio, and recover after humidification. The effect is obvious and it will not cause dust and mud to pollute the environment.

When the finished product is loaded, there will always be a large amount of flue gas and dust floating out. With the blue smoke collection system from the patented technology of the ZOOMLINE and the sealing structure of the finished material receiving area, it can prevent the smoke from emission. For the dust absorption added in the part of unloading area, the dust from the material of mixer-cleaning and waste material and the asphalt flue gas can be disposed in effective purification.

Model	ZAP-H80	ZAP-H120	ZAP-H240	ZAP-H320
Capacity(standard condition)	70-80t/h	100-120t/h	240t/h	320t/h
Rated capacity of mixer	1000kg/batch	1500kg/batch	3500kg/batch	4500kg/batch
Bitumen aggregate ratio	3%-9%			
Mineral powder proportion	4%-12%			
Mixed material temperature (common asphalt mixture)	130-160℃			
Fuel consumption(standard conditions)	6.5kg/h			
Total installed power	263kW	393kW	626kW	813kW



EMULSIFIED BITUMEN EQUIPMENT

乳化沥青设备

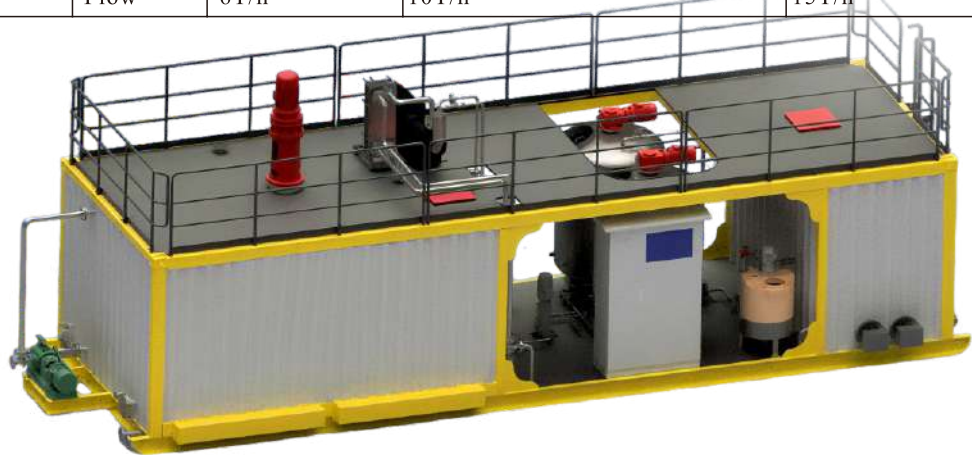
The bitumen emulsifying equipment developed by our company has the advantages of simple structure, convenient operation, wide range of bitumen content, stable quality, and can meet the requirements of different construction technologies. It has been widely used in highway construction and highway maintenance projects.



Performance characteristics

- The equipment adopts automatic control and double emulsion tank to achieve continuous production, saving manpower and reducing labor intensity.
- The emulsified bitumen production core component emulsifier (e.g. colloid mill) is developed by our company and adopts a unique stator-rotor clearance adjustment structure to maintain a very small stable gap. The specially treated stator and rotor have good wear resistance and corrosion resistance, ensuring emulsification effect and stability.
- Equipped with a high efficiency heat exchanger, the finished emulsified bitumen is cooled to normal temperature by a heat exchanger, which improves its storage stability and provides possibilities for continuous large-scale micro-surface construction.
- Adopt PLC control to precisely control the bitumen content (oil-water ratio) of emulsified bitumen.
- The heat transfer oil heating system is convenient, efficient, and can realize automatic temperature control.
- All materials in contact with the emulsion are made of high quality stainless steel, which has good corrosion resistance and can be applied to various types of emulsified bitumen production.

Model		YR-6	YR-8	YR-10	YR-15	YR-20
Capacity		1-6T/h	1-8T/h	1-10T/h	1-15T/h	1-20T/h
Butimen emulsified fineness		≤5um accounted for 85%				
Parting size(L*W*H) (mm)		6000x2000x2300		10000x2300x2300	10200x2400x2700	
Emulsion blending tank (diameter*height) (mm)		1150x1250				
Bitumen transfer tank (mm)		1500x1400x1500		1800x1500x1500	2100x1600x1700	
Water heating tank(L*W*H)(mm)		1500x1400x1500		1800x1500x1500	2100x1600x1700	
Finished box (L*W*H) (mm)		1000x800x800		1800x1500x1500	2100x1600x1700	
Bitumen speed regulating pump	Model	LCP-5A				
	Motor	YCT160-4B(4kW)				
	Flow	4.5T/h	5T/h		10T/h	15T/h
Emulsion speed control pump	Model	LCP-5B				
	Motor	YCT160-4B(3kW)				
	Flow	5T/h				
Emulsification machine	Model	MR-10	RH-10			
	Motor	Y160M2-2(30kW)		Y160M2-2(37kW)		
	Flow	6T/h	10T/h		15T/h	20T/h
Conveying pump	Model	LCBS-6A				
	Motor	Y132M1-6(3kW)	Y132M1-6(4kW)			
	Flow	6T/h	10T/h		15T/h	20T/h



POLYMER MODIFIED BITUMEN PLANT

改性沥青设备

Polymer Modified Bitumen Plant are mainly used in highways, primary roads, airport runways and so on.



Performance Characteristics

Our company conducts thorough analyses and comparisons of the comprehensive performance of various domestic and imported modified equipment. By integrating the strengths of different technologies and leveraging years of experience in asphalt transportation, polymer modified asphalt grinding, and finished product storage, we have continuously improved our offerings to produce the high-quality, high-reliability SG series modified asphalt processing equipment.

The SG series features

High Degree of Automation: Ensures efficient operation with minimal manual intervention.

User-Friendly Interface: Simple operation and clear process interfaces enhance usability.

Versatile Processing Functions: Designed to accommodate additional polymer modified bitumen processing capabilities.

The SG series is primarily composed of systems for swelling and stirring, instantaneous temperature rise, metering, grinding, finished product incubation, and electrical control. It is capable of producing a variety of polymer modified bitumens, utilizing modifiers such as SBS, SBR, EVA, and PE.

Technical Parameters of Polymer Modified Bitumen Plant

Model	SG-5	SG-10	SG-15	SG-20
Productivity (t/h)	≥5	≥10	≥15	≥20
Electrical power	60kW	100kW	160kW	200kW
Working voltage	380V 50Hz			
Main engine size (mm)	4800x2200x2200	6000x2400x2700	8500x2400x2700	10200x2400x2700
Swelling make up tank	1.5m³	3m³	6m³x2	
Mixer power	2.2kW	4kW	7.5kW*2	
Matrix asphalt pump	9.8m³/h 4kW	24m³/h 7.5kW	34m³/h 11kW	
Plate heat exchanger	40m²	80m²	100m²	
Mill transfer pump	9.8m³/h 4kW	24m³/h 7.5kW	34m³/h 11kW	
High speed shear mill	45kW	75kW	90kW	
Matrix asphalt metering	Asphalt flowmeter			
Modifier measurement	Electronic scale	Vector measurement		
Control room size (mm)		3000x2400x2600		
Operating system	Manual button operation	PLC+Engineering operation		

Technical Parameters of Polymer Modified Bitumen Plant

Model	SG-30	SG-40	SG-50
Productivity (t/h)	≥30	≥40	≥50
Electrical power	240kW	350kW	420kW
Working voltage	380V 50Hz		
Main engine size (mm)	10500x2400x2700	4500x2200x2200	5500x2200x2200
Swelling make up tank	6m³	18m³x2	22m³x2
Mixer power	7.5kWx2	15kWx2	22kWx2
Matrix asphalt pump	42m³/h 11kW	56m³/h 15kW	56m³/h 15kW
Plate heat exchanger	120m²	200m²	300m²
Mill transfer pump	34m³/h 11kW	52.5m³/h 18.5kW	52.5m³/h 18.5kW
High speed shear mill	90kWx2	132kWx2	160kWx2
Matrix asphalt metering	Asphalt flowmeter		
Modifier measurement	Vector measurement		
Control room size(mm)	3000x2400x2600	4000x2400x2600	
Operating system	PLC+Engineering operation		

ZAM SERIES DRUM/ BAG BITUMEN DECANter

沥青脱桶、脱袋设备

SUMMARY

The ZOOMLINE ZAM series barrel/bag bitumen decanter is primarily designed for melting bitumen using thermal oil as the heating medium, compatible with thermal oil heating machines.

This device features several essential functions, including:

-Efficiency: These devices can quickly and effectively release asphalt from drums or bags, reducing the time required for manual operations and increasing production efficiency.

-Safety: The equipment is typically equipped with safety devices and protective measures to ensure safe operation, reducing the risk of worker exposure to hot asphalt.

-High Automation: Modern equipment often employs automated control systems, minimizing manual intervention and enhancing operational stability and consistency.

-Strong Adaptability: The equipment can be adjusted to accommodate different types of asphalt drums and bags, meeting various production needs.

-Easy Maintenance: The equipment is designed for easy daily maintenance and cleaning, ensuring long-term stable operation.



Items	ZAM-4	ZAM-6	ZAM-8
Capacity	4-6t/h	6-8t/h	8-10t/h
Thermal oil system	600,000Kcal/h	800,000Kcal/h	1000,000Kcal/h
Thermal oil temperature	200-240℃	200-240℃	200-240℃
Bitumen temperature	120-140℃	120-140℃	120-140℃
Bitumen storage volume	11 m ³	17 m ³	24 m ³
Total power	32kW	37kW	42kW

ASPHALT STORAGE TANK

沥青库

Asphalt storage tank is a new kind of storage tank, to meet the need of high grade highway construction, and it is widely used in highway construction, petroleum, chemical, logistics, trade and other fields. The design is novel, economical and practical, compared with the traditional asphalt storage tank.

Performance characteristics

The tank body of the storage tank is a modular structure, which is composed of several steel plate units, and the units are fastened by high-strength bolts, which can achieve no damage and rapid transition when needed, and is suitable for mobile construction.

Practice has proved that the modular storage tank can be re-used more than ten times with a one-time investment, and can be relocated and used at any time according to the needs of users. It not only saves investment, but also realizes the recycling of resources.

The tank wall plate adopts patented technology, and the connection parts are connected by high-strength bolts and high-temperature and oil-resistant sealant film with a special structure to prevent the medium from seeping out. The higher the pressure, the higher the sealing degree.

Each unit of the storage tank is made of standard steel siding, factory-made, and the production line is advanced in technology, safe and reliable.

The product technology is mature and the models are complete, ranging from SD100 to SD20000, which can meet the needs of customers for different reserves and storage area configuration.



STABILIZED SOIL MIXING PLANT

稳定土拌和设备

Stabilized soil mixing plant: It is widely used in the stabilized soil construction of highway, urban road, plaza and airport. It is suitable for continuously mixing different grade limes, stones, cement stabilized soil and industrial wastes to produce finished stabilized soil.

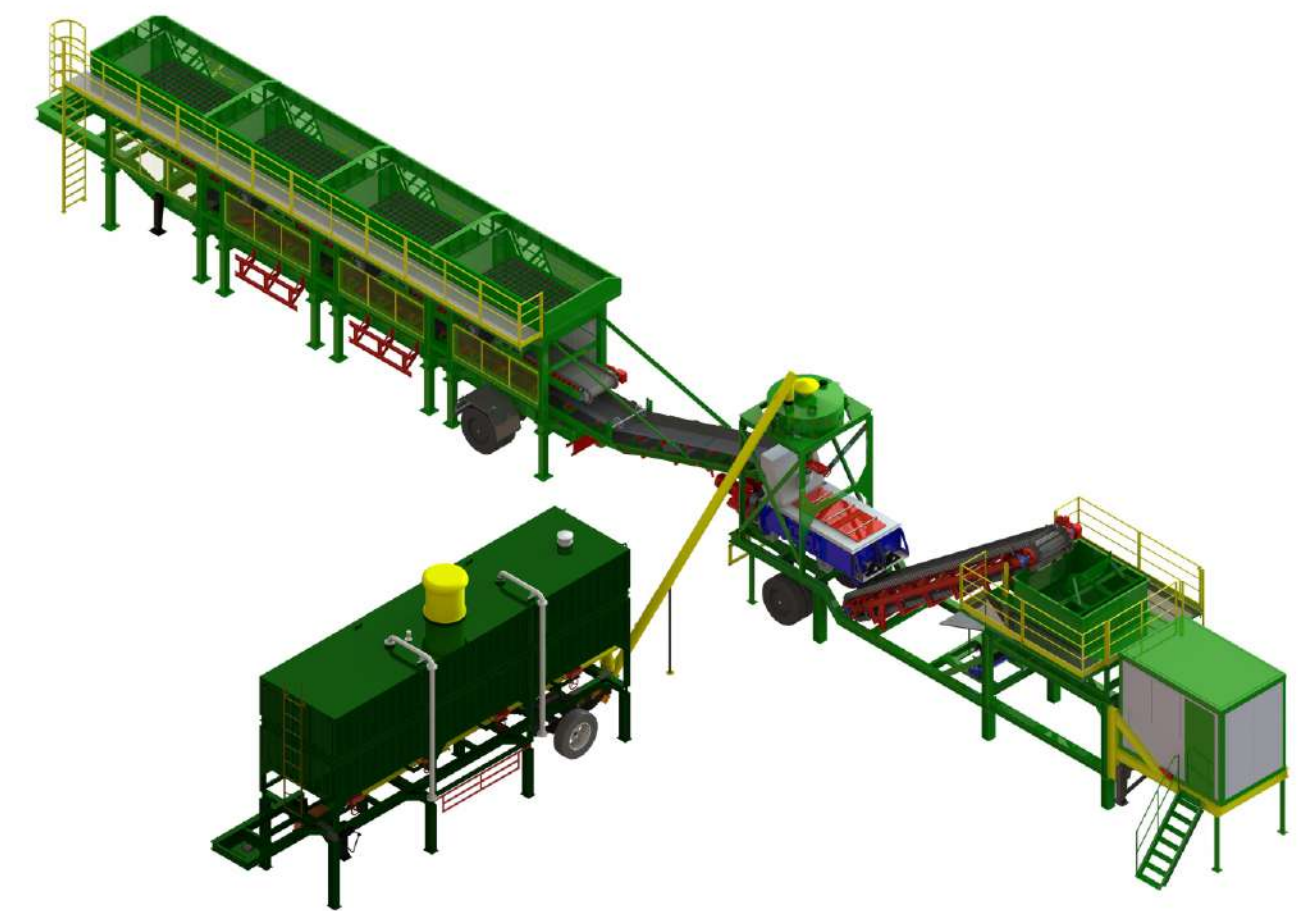
Stabilized soil mixing plant: It is composed of aggregate bin with weighing system, filler bin with weighing system, mixing system, finished material conveyer, finished material storage bin, control system. It can be divided into stationary and mobile type.



Features

- It adopts modular design and is easy to transport. And batching system adopts frequency electronic weighing to make accurate weighing.
- Filler supply system equips dual dust removal system and constant flow bin, which makes the cement weighing more accurate and unpolluted.
- It adopts horizontal double shaft continuous forced mixer, featuring chain drive, mixing evenly and easy maintenance.
- Manual and automatic control system can be options. IPC ensures the safe running of the Plant.

Model		(Y)WBC200	(Y)WBC300	(Y)WBC400	WBC500	WBC600	WBC700	WBC800
Rated output (t/h)		200	300	400	500	600	700	800
Installed power (kW)		71	88	120	140	148	168	191
Aggregate type		3		4		5		
Feed particle size (mm)		≤45			≤60			
Finished-product silo capability (m³)		4		7			8	
Measuring accuracy	Aggregate	± 3%						
	Cement	± 1.5%						
	Water	± 1.5%						
Measuring	Aggregate	Electronic belt scale						
	Cement	Electronic screw scale						
	Water	Flow meter						
Occupied area (m)		35x19	35x19	46x22	48x22	52x22	52x26	58x29



CONCRETE BATCHING PLANT

混凝土搅拌站

Concrete batching plant is suitable for mobile construction of public railways, bridges, ports, hydropower and other engineering projects.

Concrete batching plant is a concrete production equipment that integrates the material storage, weighing, conveying, mixing, discharging and automatic control system of concrete batching plant with a trailer unit; It is exactly the same as all the action process, operation mode and maintenance of the stationary automatic batching plant; At the same time, it has unique characteristics such as flexible movement, quick and easy disassembly and assembly, and simple storage and management; It is the best choice in the mobile construction of public railways, bridges, ports, hydropower and other projects.

FEATURES

High-quality concrete

Concrete batching plants are generally relatively close to the construction site, which can provide fresh homogeneous concrete for building facilities without interruption. The fully automatic control system provides a clear, uninterrupted picture of all units, ensuring that the quality of the concrete is fully compliant with building standards. The operator is not involved in the production process, but only observes each stage of concrete production.

Quick disassembly and assembly, easy to move

When transferring the plant, except for the screw conveyor and cement silo, the front end of the entire mixing plant can be hauled and moved; Others such as walktables and heightened plates are removed, and all control cables do not need to be removed. Removed attachments can be taken with the station.

Simple installation, low requirements for the foundation, just need to level and harden the ground.



Model		(Y)HZS25	(Y)HZS35	(Y)HZS50	(Y)HZS60	(Y)HZS75	(Y)HZS90	(Y)HZS120	(Y)HZS180	(Y)HZS240
Max. Theoretical Capacity (m³/h)		25	35	50	60	75	90	120	180	240
Mixer	Model	JS500	JS750	JS1000	JS1000	JS1500	JS1500	JS2000	JS3000	JS4000
	Motor power (kW)	18.5	30	2x18.5	2x18.5	2x30	2x30	2x37	2x55	2x75
	Unloading capacity (L)	500	750	1000	1000	1500	1500	2000	3000	4000
	Max. aggregate size (mm)	≤ 60/80								
Aggregate Bins (m³)		4x3		4x6			4x9	4x15	4x20	4x25
Limit and Accuracy of Weighing	Aggregate	(0-1500)kg ±2%	(0-2000)kg ±2%	(0-3000)kg ±2%	(0-3500)kg ±2%	(0-4000)kg ±2%	(0-4000)kg ±2%	(0-4500)kg ±2%	(0-4500)kg ±2%	(0-5000)kg ±2%
	Cement	(0-300)kg ±1%	(0-400)kg ±1%	(0-500)kg ±1%	(0-600)kg ±1%	(0-650)kg ±1%	(0-650)kg ±1%	(0-800)kg ±1%	(0-800)kg ±1%	(0-850)kg ±1%
	Water	(0-200)kg ±1%	(0-250)kg ±1%	(0-400)kg ±1%	(0-450)kg ±1%	(0-500)kg ±1%	(0-500)kg ±1%	(0-550)kg ±1%	(0-550)kg ±1%	(0-600)kg ±1%
	Additive	(0-30)kg ±1%	(0-30)kg ±1%	(0-30)kg ±1%	(0-30)kg ±1%	(0-35)kg ±1%	(0-40)kg ±1%	(0-50)kg ±1%	(0-55)kg ±1%	(0-60)kg ±1%
Unloading height (m)		3.9								
General power (kW)		40	53	80	97	107	125	160	200	320



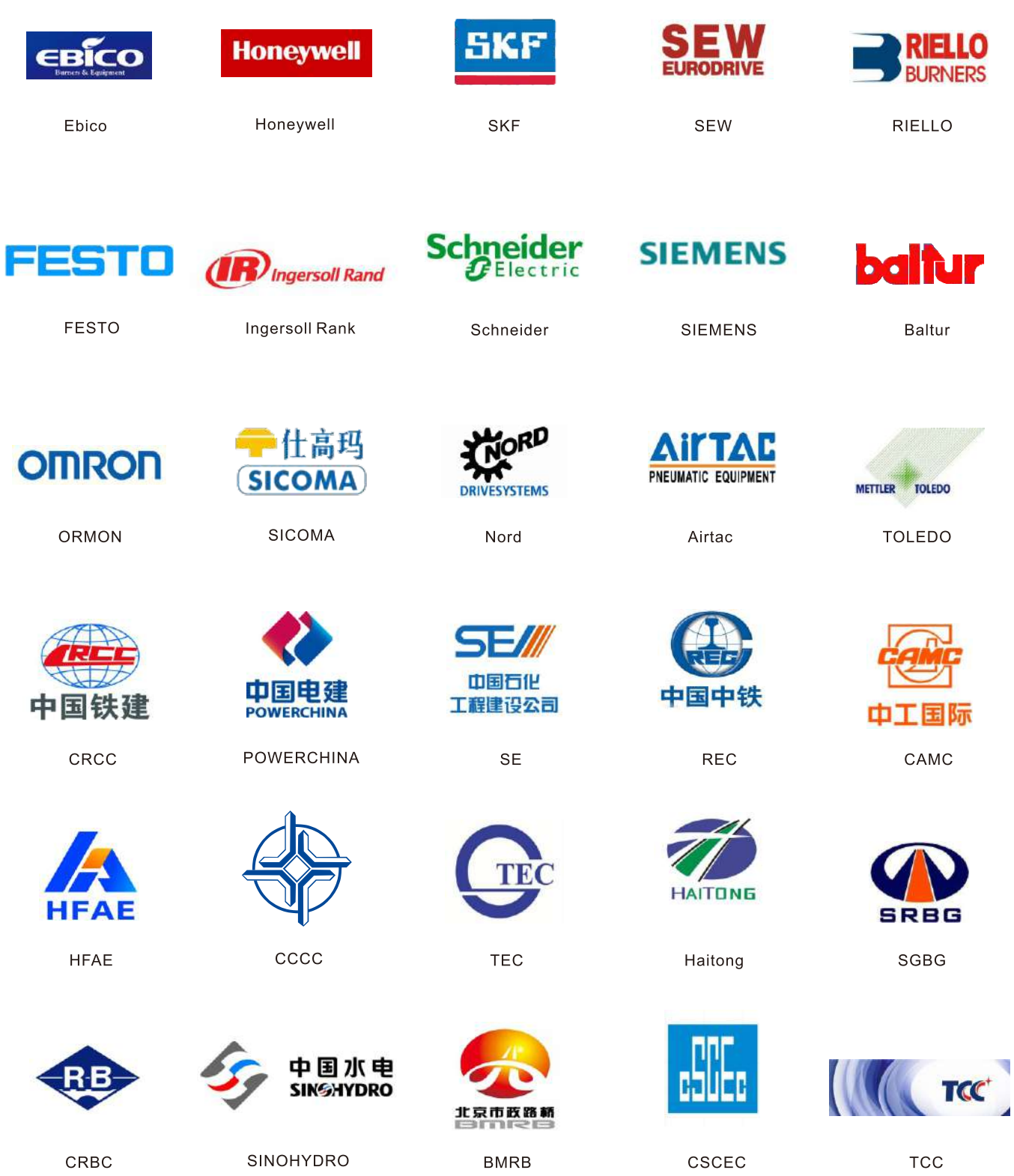
CUSTOMER VISIT

客户来访



COOPERATIVE PARTNER

合作伙伴



SERVICE

服务

Pre-Sales Service

Our service began when the customers contact with us for our asphalt mixing plant. We would like to know their detailed technical requirements by a customer questionnaire, then work out an effective solution accordingly. For example, their project type would help to decide which kind of asphalt mixing plant is more suitable, and their local environment requirement would help us to know which kind of burner would be need, and so on.

Besides, we would provide products literature to help customers understand the value of our solution. For example, we may offer the coal burner working video, the on-site asphalt plant pictures and so on. If the customer has special requirement, we would even design a 3D model for them.

After-sales Service

Our after-sales team would follow up the whole process (Transport ---Foundation treatment --- Installation----Debugging----Staff training----Technical support----Spare parts supply) after you purchased whether our whole asphalt plants or just auxiliary. We would supply regular technical support and training according to the actual situation of our asphalt mixing plant.

Whenever there is any accidental technical problem, it could be feedback to our engineers at first time.

Whatever you need technical support on the construction site, or purchase ZOOMLINE plants&accessories, we will serve you wholeheartedly.

Service 7x24 hours on line:
Email: info@zoomline.biz



PROJECTS

工程案例



ZAP-S60 Asphalt Plant in Kyrgyzstan



ZAP-S100 Asphalt Plant in Uzbekistan



ZAP-S100 Asphalt Plant in Kyrgyzstan



ZAP-S120 Asphalt Plant In Kazakhstan



ZAP-S160 Asphalt Plant in Sudan



ZAP-S160 Asphalt Plant in Egypt



ZAP-S160 Asphalt Plant in Cambodia



ZAP-S160 Asphalt Plant in Pakistan



ZAP-S200 Asphalt Plant in Saudi Arabia



ZAP-S160 & RAP80 Asphalt Plant in Thailand



ZAP-S320 & RAP160 Asphalt Plant in Thailand



ZAP-C20M Asphalt Plant in Mali



ZAP-C60M Asphalt Plant in Turks and Caicos islands



ZAP-C80M Asphalt Plant in Zimbabwe



ZAP-C120M Asphalt Plant in Peru



ZAP-C40 Asphalt Plant in Kazakhstan



ZAP-C40 Asphalt Plant in Ukraine



ZAP-M100 Asphalt Plant in Bangladesh



ZAP-M120 Asphalt Plant in Uzbekistan



ZAP-M120 Asphalt Plant in Philippines



ZAP-M120 Asphalt Plant in Thailand



ZAP-M60E Asphalt Plant in Greece



ZAP-M60E Asphalt Plant in Mongolia



YR-6 Emulsified Bitumen Equipment in Vietnam



ZAM-8 Bitumen Melting Machine in Jordan



ZAM-4 Bitumen Melting Machine in Congo



YHZS75 Mobile Concrete Batching Plant in Greece