

ASPHALT MIXING PLANT

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SINOSUN GROUP

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COMPANY PROFILE

SINOSUN Group was founded in 2004, which is a high-tech technology company integrating design, manufacturing and sale of high-tech technology. Since SINOSUN inception, always hold "honest and trustworthy, quality, innovation," the corporate culture, to create a class of well-known brands of road construction machinery industry and CE, ISO9001:2008 and GOST certificate. Our main products are asphalt mixing plant, concrete mixing plant, burner.

Welcome to visit our factory !



Our Asphalt Mixing Plant Factory has about 300 staffs now, including 37 senior engineers over national title, 52 after-sales service personnel that have rich experience in domestic and international service. Factory main product lines focus on four kinds of asphalt batch mixing plant, mobile asphalt mixing plant, continuous asphalt mixing plants and mobile continuous asphalt mixing plant. Manufacturing wide range of different models equipment which can be meet customer's needs, also meet the diverse needs of customers.

The advantages of our asphalt mixing equipment:

1. Higher quality with reasonable price. Our Prices and reliable configuration have won the customers trust.
2. Flexible design. Meeting the needs of customers provided, according to customer requirements, designed for customers who order.
3. Modular structure. Containerized compact structure. To save costs and ease installation and transportation.
4. Professional after-sale service team can provide efficient and professional service.

With these advantages, company annual production and sales of asphalt plants more than 300 sets, annual sales more than one hundred million, with virtue of excellent quality and professional technology, we have successfully completed many assume national high-tech industrialization demonstration engineering, these Equipments are widely used in a number of national key projects, "five vertical and seven horizontal" highway and the 2008 Beijing Olympic Games Beijing city ring road highway.

So far, our asphalt mixing plant products have been widely used in domestic road construction projects. Such as Russia, Romania, Poland, Brazil, the Philippines, Thailand, India, Indonesia, Angola, Saudi Arabia, Algeria, Ethiopia, Peru, Argentina, Chile, Colombia, more than 60 countries and products around the world, Popular with the customers and praise.



SAP series Stationary Asphalt Mixing Plant

Smart and Convenient

Environmental and Energy saving

Accurate measurement

Safe and Reliable

Layout



Environmental and Energy saving

- Dust collector including gravity and filter bag, emission concentration < Ringelmann I, Air emissions $\leq 20 \text{ mg/Nm}^3$.
- Equipment adopt the sound attenuation, sound insulation, shock absorption, significantly reduce noise emissions, environmental noise $\leq 80 \text{ db (A)}$.
- Bag filter adopt high pressure impulse, good cleaning effect, Filter bag is equipped with high and low temperature protection, prolong the service life of the filter bag.
- Burner adopt Italy patent design, high combustion efficiency, wide application of fuel, according to user needs, can use fuel such as diesel oil, heavy oil, coal, Gas, environmental protection, energy saving.
- The unique mixing blade design and simple and efficient way of driving make stir more easy, efficient and reliable.
- Adopt USA NOMEX filter bags, high temperature resistant and long service life

Smart and Convenient

- PC+SIEMENS PLC control system, can realize automatic control, semi-automatic control and manual control
- Wifi remote Control, fault warning diagnosis, completely report and print report of production.
- Humanization design, Windows operation system, display the status of motors and burner, monitor the cold bin.
- System with parameter setting, data management, fault diagnosis, etc, make the operation simple and safe

Safe and Reliable

- International Famous Brand Components, high stability and reliability, effectively guaranteed the quality.
- Control system adopt dual host redundancy design, dynamic process, good performance.
- Reliable centralized lubrication system, lubrication reliable and prolong service life.
- Before delivery, all the components assembly, debug, these preparation work reduced the site adjustment time, ensure the quality of products.
- Key components are equipped with mechanical maintenance hole, ensure the workers safety.

Accurate measurement

- Adopts European standard in terms of heat power system, which is enhanced by accurate weighing system, reducing oil and electricity consumption; Adopts USA Mettler Toledo brand load cells, which is very precise and with a high weighing accuracy.
- Bitumen pump adopt frequency control+ the secondary measurement technology, automatic error correction, bitumen weighing accuracy: Dynamic $\pm 2.5\%$
- Hot aggregates adopt automatic fall correction, weighing accuracy: Dynamic $\pm 1.5\%$; Mineral weighing accuracy: Dynamic $\pm 0.5\%$.
- Precision of bitumen aggregate ratio $\leq \pm 0.1\%$
- Each Cold bins equipped with SIEMENS brand frequency converter and module, dosing accurately.



Cold Aggregate Bin



Side wall type belt conveyor / Alarm sensor / Direct connection

Mixer



Italy MARINI design / Direct connection / Chromium manganese alloy steel

Dryer Drum



Butterfly elastic plate outside / Japan Nikko design / Direct connection

Bag House Dust Filter



USA DuPont Nomex brand filter bags

Vibration Screen



Italy OIL brand / Double vibrator linear type

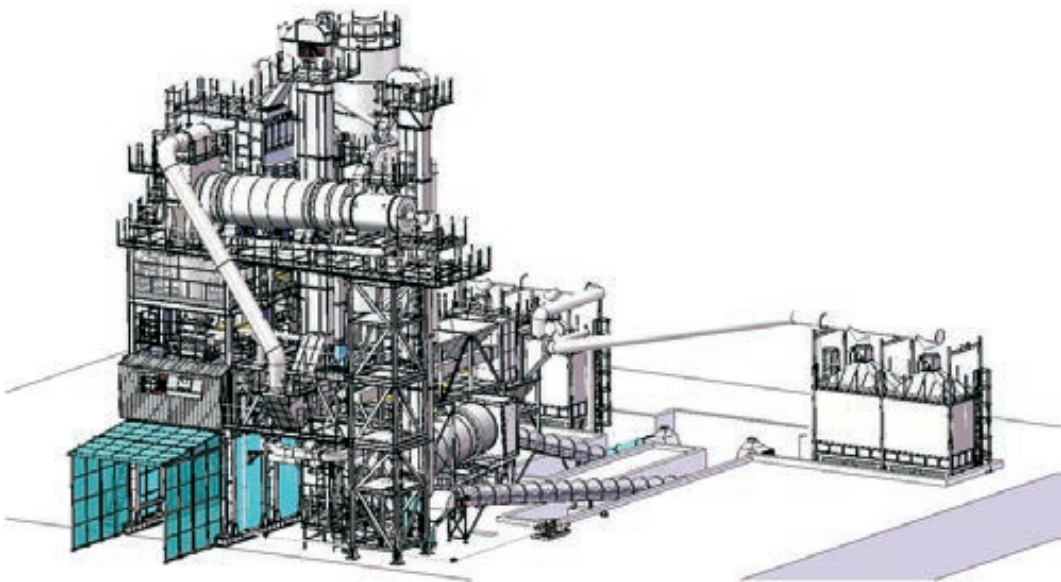
Control System



SIEMENS PLC control system / Remoting control with wifi

Recycled Asphalt Plant

SR Series Integrated Virgin & Recycling Asphalt Plant Equipment



Features

- Mixer is settled on the recycled asphalt tower, new structure design, virgin asphalt integrated with the recycled asphalt together, high add ratio for recycled asphalt, high capacity performance.
- Special sized dryer drum blades can prevent adhesive aggregate, make the production stable and efficient, easy to maintenance.
- The high temperature exhaust gas returned to dryer drum through the flute to refuse which can save energy while reducing the burden of dust collection equipment.
- The old aggregate adding rate can reach up to 30%-50% through this method.

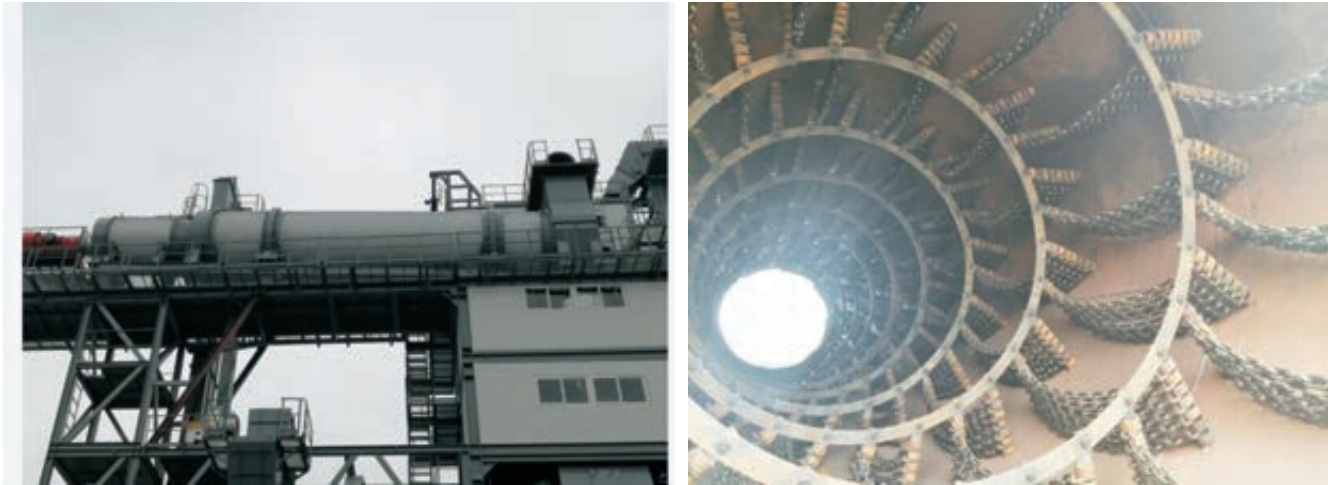


Layout

- Equipment adopts modular structure, 3D drawing software of three-dimensional design, can according to the construction requirements, and combined to form a variety of configuration
- Small land occupied, compact structure, Solves the difficulties due to lack of space.
- Simplify the basis, easy to install and maintenance , easy-transportation and transfer.
- Rational layout, novel and decent appearance

Parameter

Model	SAP64	SAP80	SAP100	SAP120	SAP160	SAP240	SAP320
Installation Power (kw)	154	215	232	340	430	600	860
Rated Capacity (T/H)	64	80	100	120	160	240	320
Cold aggregate kinds	4*6.5m3	4*8m3			4 / 5*8m3	5*15m3	6*15m3
Drying drum Length/Diameter	6.5m * Φ1.5 m	7m * Φ1.7 m	7m * Φ1.7 m	8 m * Φ1.8 m	9 m * Φ2.25 m	10 m * Φ2.5 m	10 m * Φ2.7 m
No. of screen layers	4 layers	4 layers	4 layers	4 layers	4/5 layers	5 layers	6 layers
Vibrating screen	Double Italy OLI Brand Vibrator Liner type						
Mixing period (s)	45						
Capacity of mixe(kg)	800	1000	1300	1500	2000	3000	4000
Fuel Consumption	≤6.5kg/T finished product						
Fuel type	Heavy oil/Diesel/Coal/Natural gas/Liquefied petroleum gas						
Dust Collecting	Gravity dust collector+ NOMEX Bag House Dust Filter						
Control method	Manual / Automatic						
Temperature of finished product(℃)	140-180						
Emission Concentration	≤20mg / Nm³						
Finished product silo	20/40/60/80/100/120/200T Bottom Type(Optional)						



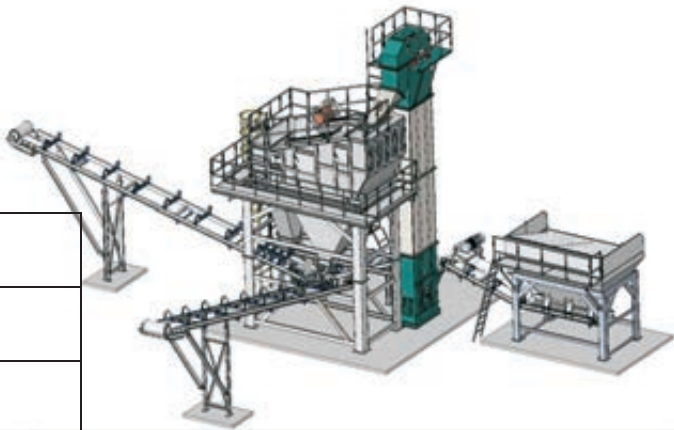
Asphalt warm mixing renewable equipment

Features

- Increase the proportion of reclaimed materials, reduce the consumption and production cost.
- Effectively reduce the degree of asphalt aging, reduce greenhouse gases, such as asphalt smoke emissions, improve the working environment.
- Prolong the service life of asphalt mixing equipment, reduce the equipment operation cost.
- Adapt to a variety of working conditions, especially in low temperature construction of long and large tunnel construction.
- Each technical performance meets the requirement of construction standard, increases the workability of asphalt and stone.

Parameter

Model	PS -60
Output	60t/h
Bin conveyor power	5.5kw
Broken arch power	0.37kw × 3
Feeding conveyor power	5.5kw
Returning conveyor power	5.5kw × 2
Vibrating power	2.6kw × 2
Crusher power	37kw
Discharging conveyor power	5.5kw×2
Total power	77kw



Parameter

Model	SR1510	SR2010	SR2015	SR3015	SR3020
Capacity of virgin asphalt(t/h)	120	160	160	240	240
Capacity of RAP asphalt(t/h)	80	80	120	120	160
RAP/Virgin ratio (%)	50%	33%	50%	37.5%	50%
Capacity of Mixer (Kg)	2000	3000		4000	
Total Capacity (t/h)	140-160	200-240		280-320	
Bag house Filter area (m2)	650	920		1200	
Dimension of dryer drum (m)	Φ1.95×8	Φ2.25× 9		Φ2.5× 10	
Capacity of burner(MW)	14.8	19.7		29.6	
Dimension of RAP dryer drum(m)	Φ2.25×8		Φ2.5× 10		Φ2.5× 12
Capacity of RAP burner(MW)	9.8		14.8		19.7
Fuel type	Coal/Gas/Diesel/Heavy Oil				
Emission (mg/Nm3)	≤50				

MAP series Mobile Asphalt Mixing Plant



Parameter

Model	MAP1000	MAP1300	MAP1500	MAP2000	Remarks
Total power	215kw	235kw	340kw	430kw	Standard configuration
Capacity	80T/H	104T/H	120T/H	160T/H	5% moisture
Mixer Capacity	1000kg	1300kg	1500kg	2000kg	Rated
Mixing period	45s				
Cold aggregate hopper quantities	4			4/5	
Fuel consumption	≤6.5kg/T finished product				Light/heavy oil/Gas
Finished product temperature(C)	140-180				
weighting precision	±2.5%				Dynamic
Air emission concentration	≅20mg/Nm3				NOMEX Bag filter
Trailing speed	40-100Km/h				Air brake System
Trailer quantities	5 units				Excluding Bitumen tank, Filler silo

Main Features

- Adopt Korea DMI 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 cost.
- System of drying, weighing, mixing, discharging are full-automatically controlled.
- All the units are separated mutually while each unit can achieve seamless connection.



QLB series Twin-shaft Asphalt Mixing Plant

Introduction

The series plant are Twin Shaft Asphalt Mixing Plant. It integrated design of batch type drying drum and horizontal twin-shaft mixer.
The capacity of QLB series portable Asphalt Mixing Plant is from 10-80t /h.



Parameter

Model	QLB-10	QLB-15	QLB-20	QLB-30	QLB- 40	QLB- 60	QLB- 80
Through put (t/H)	10	15	20	30	40	60	80
Fuel	41.5	54	63.5	104.5	125	157.5	200
Coal	57.5	75	86.5	127.5	169	205	276
Aggregate Batcher	-----	- -----	2.3 m ³ ×3	5 m ³ ×3	5m ³ ×3	5m ³ ×3	5m ³ ×3
Weighting of product silo(T)	2	5	5	9	9	9	20
Discharge temperature	120-180℃ (adjustable)						
Fuel consumption	Fuel oil : 57.5kg / t Coal : 1315kg /t						
Optional components	Coal breaker, Waterfilter, Bag filter Control Houses,bitumen heating tank						

SLB series Twin-drum Asphalt Mixing Plant

Introduction

This series plant are twin Drum Asphalt Mixing Plant. The two drums (drying drum and mixing drum) are integrate design.
The capacity of SLB series Asphalt Mixing Plant is from 8-30t /h.

Parameter

Model	SLB-8	SLB-10	SLB-15	SLB-20	SLB-30
Through put (t/h)	8	10	15	20	30
Discharge temperature (℃)	120-180 (adjustable)				
Optional components	Aggregate Batcher, Finished silo, Coal breaker, Water filter , Bag filter Control Houses,Bitumen heating tank				



MFR series Coal Burner

Main Performance

- Adopt new structure to optimize traditional machine mechanism, exclusively adopt the combustion chamber rotary to solve traditional problems such as slagging or burning incompletely.
- The high flame temperature that can burn fully and save energy.
With exclusive high performance fire-brick, prolonging the service life.
- Continuous production, no need to slag removal everyday.
- The cost of the production is as little as 1/3 of that of the oil burner.
- Coal pulverizer broken hammer adopt NM500 high wear-resisting material
- Automatic control system,autoignition and adjust damper, easy to operate.

Parameter

Model	MFR500	MFR1000	MFR1500	MFR2000	MFR3000	MFR4000
Motor power (KW)	31. 25	48. 25	73. 75	97. 25	144. 5	205. 95
Rated coal burning amount (t/h)	0. 45	1	1. 5	2	2. 86	3. 66
Mixer output (t/h)	25—40	60—85	100—125	140-170	200—250	280-320
Material temperature control (℃)	130—180					
Coal powder granularity(mesh)	180-200					

Main Components

- Coal pulverizer: Grinding granular coal into coal powder of 150-200 mesh.
- Main machine of coal burner(including combustion chamber, moving forward and backward system, automatic rotation system and combustion air supply system)
- Control system: the system control, temperature detection and control.
- Ignition system: it can realize automatic ignition.
- Fire opening: connected to the drying drum discharging device, it protect the discharging device not burner out.



Ancillary Equipment

Drummed bitumen melting equipment



Performance

- This series drummed bitumen melter is special for its enclosed construction which is more environmental friendly.
- This series drummed bitumen melter adopts automatically control system and imported auto-ignite burner.
- This series drummed bitumen melter has strong applicability. It is suitable for various types of drums. Even when the drum is out of shape, the machine could still be operated normally.
- This series drummed bitumen melter features energy-saving. It make full use of hot gas (320-450℃) of burner to melt and make asphalt coming out of drums (it is about 150℃ while waste gas was let off to air). The closed-construction saves 50% energy sources compared with the exposed one.
- This series drummed bitumen adopts semi-mobile structure, easy to remove, fast to install. Planetary containerized for easy road transport.

Parameter

Model	DT-4	DT-6	DT-10
Productivity	2-4	4-6	8-10
Bitumen temperature(℃)	120-140	120 -140	120-140
Numbers of Drum Per Batch	26	32	44
Thermal capacity of oil heater(kcal/h)	30×10 ⁴	50×10 ⁴	70×10 ⁴
Thermal oil temp (℃)	200-240	200-240	200-240
Total power (kw)	35.5	42.5	57
Total weight (t)	20	21	24
Overall dimension (L x W x H)	6350×2200×2560	7500×2250×2560	11800×2550×2700

Emulsion Bitumen Plant

Main Performance

- This series drummed bitumen melter is special for its enclosed construction which is more environmental friendly.
- This series drummed bitumen melter adopts automatically control system and imported auto-ignite burner.
- This series drummed bitumen melter has strong applicability. It is suitable for various types of drums. Even when the drum is out of shape, the machine could still be operated normally.
- This series drummed bitumen melter features energy-saving. It make full use of hot gas (320-450℃) of burner to melt and make asphalt coming out of drums (it is about 150℃ while waste gas was let off to air). The closed-construction saves 50% energy sources compared with the exposed one.
- This series drummed bitumen adopts semi-mobile structure, easy to remove, fast to install. Planetary containerized for easy road transport.

Project

Parameter

Model	PSRH -6	PSRH -10	Remark
Capacity (T/H)	6	10	Rated capacity
Installation power	26.5kw	50kw	Theory power
Emulsified fineness	< 5μm	< 5μm	
Water heating type	Thermal oil/ electric heating		
Blending tank volume	1.25m3×2	1.5m3×2	
Bitumen tank volume	5 m3	6 m3	
Finished product tank	5 m3	6 m3	
Water tank volume	5 m3	6 m3	



Foreign customer

With the development of our company, we begin to put more attention on the overseas market. Our asphalt mixing plant products have been services for customers all over the world including Southeast Asia, Africa, South American, etc. At the same time , after years of operation , we have formed our professional overseas marketing service team , constructed the perfect over sales channels.



Service

Pre-sales service

Professional engineers will propose the professional suggestions according to your requirements and performance parameter : Use advanced CAD , PRO/E to make maps , can offer various design plans and make the best solution for you .

Medium-sales service

The technician will answer the difficult problem and technical support timely that users will meet in the course of using while selling , and will train the technical staff for customer, teach them how to install maintain and use , make customers feel the sincerity of our company.

After-sales service

The company has professional and experienced engineers and technicians , set up the files for every user to responsible for the maintenance and using guidance of products , the seller will offer high-efficiently.

Maintenance

- Adding the lubricant to every bearing regularly .
- Daub the grease on drive chain regularly, and adjust appropriately
- Often check the fastening situation of every bolt
- Clear up the filler, cooler of air compressor in time
- Check the abrasion situation of every conveyer belt and belt should change if necessary
- Check the engineering pipeline of fuel , hydraulic system to make sure they are in good state

Cooperative Supplier

