



SINOROADER

MB-series modular batch mixing plant



HENAN SINOROADER HEAVY INDUSTRY CORPORATION

Henan Sinoroader Heavy Industry Corporation is a world-famous road and bridge machinery manufacture, located in Zhengzhou City, Henan Province. Our producing base is located in Weidu District, Xuchang City with factory area over 80,000 m².

Sinoroader has first-class production equipment and R&D team. Sinoroader has more than 500 production and research staff and workers, responsible for product re- search, design, production, installation, commissioning and after-sales service. The R&D team has obtained master's degree or above, and 60 of them have got PHD. The production team includes more than 200 senior technical workers and 320 skilled workers. Core business includes: road and bridge machinery equipment manufacturing; old equipment alteration; Project construction design & consulting service. Core products series includes: asphalt mixing plant; concrete and stabilized soil mixing plant; road maintenance equipments and materi; Bitumen related equipments. Can meet the diferent needs of different regions, different markets and different customers all over the world.

In addition to Domestic market team, Sinoroader market department also has Southeast Asia, Central Asia, Africa, Middle Eastern Asia and American market teams. In these major regions, Sinoroader has set up branch offices in Pakistan, Uzbekistan,

Uganda, Myanmar, Philip- pines, and Kenya to be responsible for the expansion of overseas business.

Nowadays, asphalt mixing plant, concrete mixing plant and road maintenance equipment produced by Sinoroader have been widely used in more than 120 countries and regions, such as Thailand, Philippines, Indonesia, Malaysia, Myanmar, Laos, Vietnam, Bangladesh, Paki- stan, Russia, Uzbekistan, Kazakhstan, Kenya, Tanzania, Nigeria, Uganda, Chile, Australia, Bolivia, Peru, Saudi Arabia, New Zealand, etc. Conforming to the trend of technological development, grasping the market demand and leading the technology trend, Sinoroader is also actively carry out technology research and development while embracing customers. We have been carried out technological innovations in conjunction with many universities & colleges, such as Changan university. For now, Sinoroader has obtained a number of patented tech- nologies, which are of great significance for promoting the innovation of the entire road construction industry. In addition, Sinoroader also cooperates with many well-known overseas enterprises and universities in technology developing.

Our Vision: To be the supplier of turn-key solutions for road construction machinery applications!



MB-series modular batch mixing plant is a new asphalt mixing plant designed and produced by our company according to the latest market demand, which can promise sound performance paired with exceptional technology. The modular design of this compact plant assures setup ease and accommodates upgrades as your operation grows.

5S Advantages

- Civil work saving
- Transportation cost saving
- Set-up cost saving
- Energy consumption saving
- Maintenance cost saving

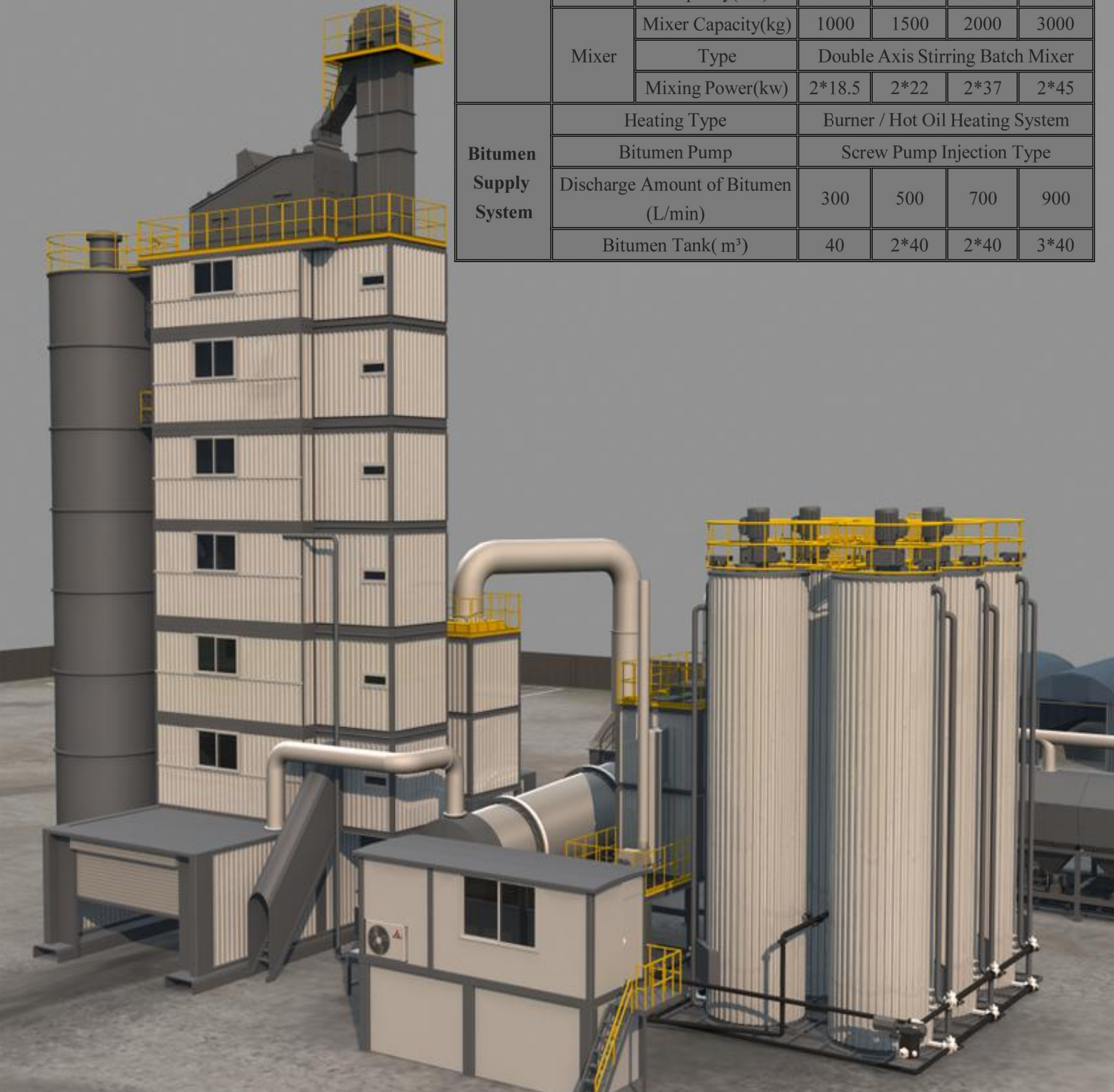
Re-location

- Modular design
- Compact structure
- Easy set up
- Foundation free
- Pre-assembly



B-series modular batch mixing plant

Model			MB1000	MB1500	MB2000	MB3000
Main Parameters	Capacity(t/h)		80	120	160	240
	Total Power(kw)		242	326	413	590
	Noise(dB)		≤70			
	Voltage		220V/380V-50HZ(Adjustable)			
Mixing tower	Hot aggregate elevator		110	130	175	260
	Vibrating Screen	Screening Decks	4	4	4	5
		Screening Area (m²)	14.7	24.2	24.2	24.2
	Hot Bins	Quantity	4+1	4+1	4+1	5+1
		Capacity(m³)	24	28.5	32.5	40
	Mixer	Mixer Capacity(kg)	1000	1500	2000	3000
		Type	Double Axis Stirring Batch Mixer			
		Mixing Power(kw)	2*18.5	2*22	2*37	2*45
Bitumen Supply System	Heating Type		Burner / Hot Oil Heating System			
	Bitumen Pump		Screw Pump Injection Type			
	Discharge Amount of Bitumen (L/min)		300	500	700	900
	Bitumen Tank(m³)		40	2*40	2*40	3*40



MB-series modular batch mixing plant

- MB series asphalt plant is the product combined with various advantages of western models, adopts modular design, compact structure simple assembly and transport.
- Components adopt international famous brand, keep pace with the international advanced technology, and can guarantee high reliability and security of the equipment in long operating terms.
- The strict trial assembly test machine of each set of equipment before delivery can guarantee stable quality and high standard of the product.
- Adopts human-computer interface and PLC control system, perfect human-machine exchange function, easy to operate.
- Reasonable and multiple layout modes, the layout can be ordered according to different requirement to adapt the actual construction requirement better.
- Low consumption, high efficiency, environment friendly design is the ideal choice of different kinds of road.



Accurate cold feeding

The speed of feeding belt conveyor is automatically regulated by variable frequency motor according to output and ration which can prevent aggregate overflowing into both sides and ensure the stock ground clean.



Easy set-up

Set up of cold feed bins is accomplished with minimal investment of time and money due to the modular.



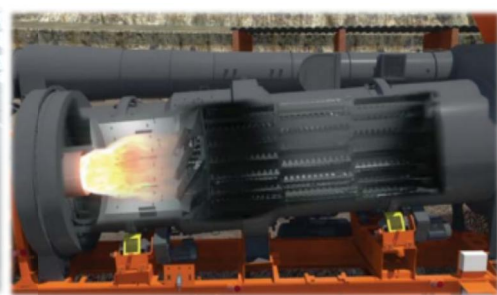
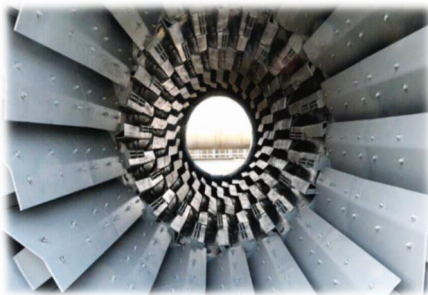
Drying system

Counter-flow dryer drum

The drum counter-flow rotary drying heating method is provided with a spiral rewinding blade and a feeding blade in the cylinder body, and different shapes of reversing blades are installed in different regions, and the drum cylinder body has an inclination angle of about 3.5-4 degrees, and the outer layer has 40cm of thermal insulation rock wool prevents heat loss.

Intelligent efficient heat exchange

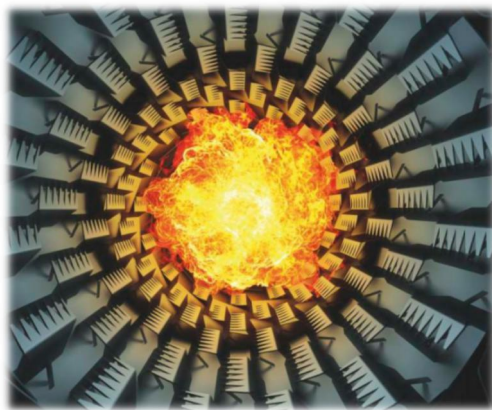
Automatic control of the dryer spin speed results in the maximum heat exchange between the aggregates and fuel gases. Drum body is covered with Rock wool.



Energy consumption saving

Using imported Italian fuel/gas burners or self-developed high-quality burners, with sufficient combustion and high energy efficiency. Optimization of air flow used for combustion, Control of the exact amount of air required for burning, ensuring lower consumption. Both the air and fuel dosing is proportional and independent, guaranteeing perfect burning and full utilization of the fuel, with high production, low consumption and respect for the environment.

Fuel optional: heavy oil; light oil; coal; natural gas, etc.



Automatic control

It is also equipped with a manual function to ensure the normal operation of the burner through a manual system when the system fails. Automatic burner stop, automatic fault diagnosis and fault check guidance are also optional.

Innovative automatic control of the burner according to the need to heat the materials (closed loop system)



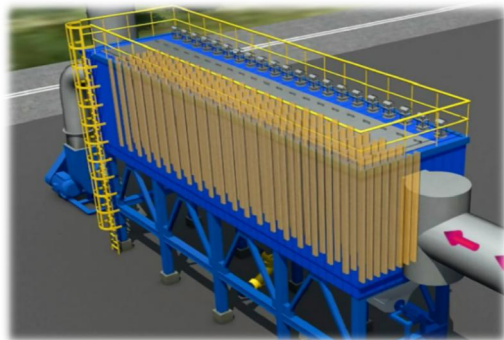
Dust collection system

Environment friendly: Two-stage dust collecting

Primary collecting can collect coarse particulates, which can be screened and stored into hot bins.

Secondary collecting can collect fine particulates into a hopper, which can be used to the plant or rejected directly according to the requirement of you project.

The emission concentration is nomore than 20mgNm³.



Compact structure

Bag house and dryer drum are stacked together, compact structure saving civil work.

Long working life

The bag adopts high efficiency filter materials produced by DuPont. And the wear and tear is low and the working life is long. High temperature resistance like 160°C-180°C



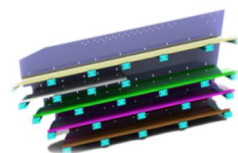
Vibrating screen

Maintenance cost saving

Relay vibration motor instead of eccentric shaft which can eliminate need for lubrication ,and the detachable grid can be exchanged across the open-door reduce the time and effort to change the screens.

High screening efficiency

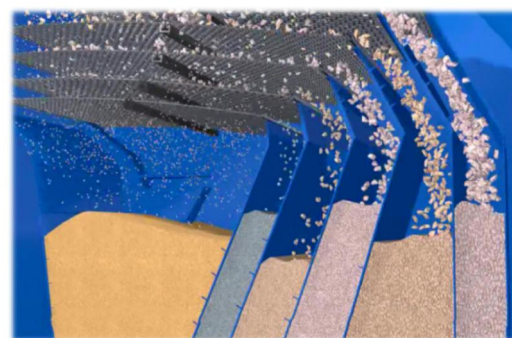
Screen layered segmentation multi-deck design, large screening area.



Hot bins

Guaranteed timely feeding

The equipment has large volume hot aggregate storage bin which can guarantee the continuity of final products discharging, there is heat preserving layer outside bin which can reduce heat loss, save fuel consumption and reduce cost. There is contentious level indictor on eachbin which can display material level changing condition continuously.



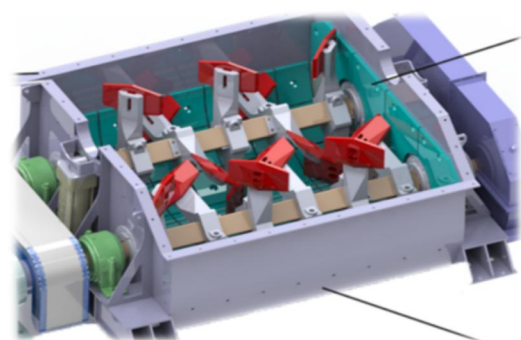
Mixer

Superior well mixing

The mixer is the critical component of asphalt mixing plant. The design of length-width ratio parameter of mixer, volumetric coefficient of mixer. Our factory absorbs the imported mixer structure feature nad advanced experience. Though constant research and study, we improve the space between mixing arm and the angle of mixing blade.

Heavy-duty & long-working life

Built lining board, blade adopts high wear-resistant cast alloy iron; the working life is long.



Weighing System

Mixing ratio precision

Aggregate weighing hopper

Aggregate weighing hopper and special designed eccentricity hopper structure make the material hopper flexible and steady and avoid clamping. Aggregate weighing hopper : $\pm 0.5\%$

Filler weighing hopper

Filler weighing hopper is equipped with pneumatic arch broken device, it is smooth and fast discharging. The special powderspreading screw conveyor make the powder go into the mixer quickly and evenly, guarantee final products quality
Filler weighing hopper : $\pm 0.25\%$



Bitumen weighing hopper

Bitumen weighing hopper equipped with electromagnetism bitumen pump and one-way valve which enhance weighing precision. The bitumen injection uses bitumen pump spraying type which can cover the aggregate surface evenly in mixer, enhance the final products quality. Bitumen weighing hopper : $\pm 0.2\%$

Recycle fine particulates and RAP is optional to add.

Bitumen supply system

Pre-pipeline

Before delivery the pipeline of the bitumen tank is already connected and assembled, so it is easy and fast to start production.

Continuous insulation

Bitumen tank is sturdy and durable. And bitumen tank is covered with rock wool insulation layer and galvanized sheet, which maximally decrease the heat loss.



Control system

Precise control

Siemens electrical components, Siemens weighing module, Reliable industrial computer, Industrial PC+PLC (Siemens), it is running in the stable and reliable in professional operation system.

Optional to equipment global long distance detection and diagnostic functions, it helps to solve the equipment system fault at the first time.

Pre-wiring

Electronic control system uses aviation connector for easy assembly.





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