

**SINORoader**



**YLB Mobile Asphalt Mixing Plant**



### YLB Mobile Asphalt Mixing Plant

Model: YLB700 ~ YLB2000

Product Capacity: 60 t/h ~ 160 t/h

Mixer Capacity: 700 kg/batch ~ 2000 kg/batch

Mobile plant, easy for installation, fast relocation;

Batch mix, precise screening, accurate weighing.

YLB Series mobile asphalt mixing plant is developed, designed, manufactured and put on sale by Sinoroad Road Construction Machinery. It inherits the advantages of LB series asphalt batch mixing plant, and adds new elements including: containerized size, modular design and trailer and mobile chassis which make it possible for container transportation, fast mobilization and relocation.

YLB Asphalt Plant is designed for small and medium-sized pavement project which need frequent relocation. Complete plant can be dismantled and reinstalled in 5 days (not including the transportation period).

Model: Batch Mix Asphalt Plant , Asphalt Road Construction Machinery , YLB700 /YLB1000/YLB1500/YLB2000 Asphalt Mixing Plant , Mobile Asphalt Mixing Plant, Drum Mix Asphalt Plant, Continuous Asphalt Mixing Plant, Asphalt Hot Mix Plant, Recycle Asphalt Plant.

1. The pure modular structure of the hybrid building provides fast and convenient transportation and installation, separates a large amount of waste and spills, and has a novel and unique structure.
2. The dispenser is equipped with a circular belt feed mechanism with adjustable speed and height. The unique structure facilitates the replacement of the belt, makes the paper feeding more stable and reduces the power consumption, and also has a material-free signal light, which is convenient for customers.
3. High-efficiency heat insulation and drying barrels, special shaped blades and materials made of curtains make the heat exchange more complete. It is also equipped with high-efficiency energy-saving imported burners, dual use of heavy oil and diesel, saving energy consumption.
4. The vibrating screen is a linear fully enclosed structure with a vibrating shell, which has high screening efficiency, easy maintenance and replacement of the screen, and more reliable bearings.
5. The hot aggregate hopper is equipped with a continuous horizontal device, which the operator can see immediately. The size of the aggregate is measured through the auxiliary door of the size door, which

greatly improves the accuracy of the measurement. The special design of the door does not allow easy jamming, and the operation is more reliable. ,

6. The mixing unit adopts European design. The double gear motor is synchronized at the high speed. The heavy asphalt is sprayed directly into the mixing tank through the pump, and the powder is sprayed into the mixing tank through the spiral to make the mixing more uniform and fast. There is an interface for adding wood fibers and an input for recycling used materials.

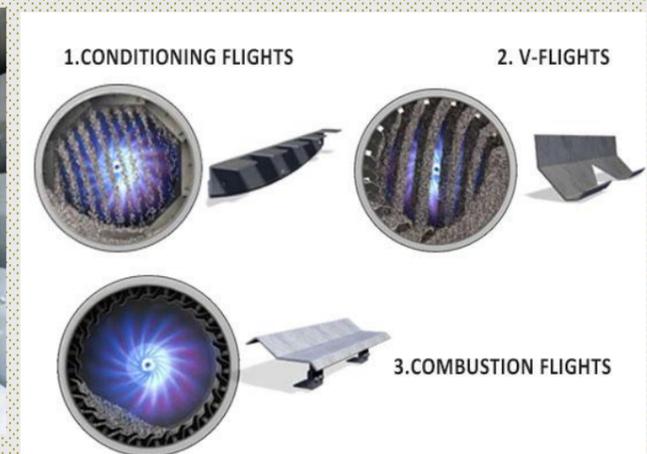
7. The dust removal system uses imported Nomex cloth bags, so the concentration of dust discharged into the atmosphere is less than 50 mg / Nm<sup>3</sup>, which fully meets environmental requirements. The deflated dust is removed to the secondary powder storage tank for reuse, thereby avoiding secondary pollution.

8. The control system adopts the universal SIEMENS solution in the field of industrial automation, and uses PROFIBUS field bus to form a large-scale, large-scale distributed automation system. In the operating mode, it uses hot backup with two industrial computers and dynamic display No button and mouse to perform various operations, monitor and control faults in real time, with parameter setting, data management, fault diagnosis and other functions in seconds. Accurate measurement, automatic, semi-manual and manual control, stable and reliable operation.

## Sinoroader | Drying System

Batch Mix Asphalt Plant, Asphalt Road Construction Machinery, YLB700/YLB1000/YLB1500/YLB2000  
Asphalt Mixing Plant, Mobile Asphalt Mixing Plant., Drum Mix Asphalt Plant, Continuous Asphalt Mixing Plant, Asphalt Hot Mix Plant

1. Adopts four sets of famous powerful direct-connected gear motors to drive the drying drum;
2. Optimized blades make the drying process more balance with higher heat utilization rate;
3. Drying drum is covered by thermal insulation material and stainless steel skin to avoid heat loss;
4. Well calculated and carefully heat treated drying drum, world class bearings have long service life and stable performance.



## 1. CONDITIONING FLIGHTS

Break up any clumps or sticky material when the aggregate first enters drum.

## 2. V-FLIGHTS

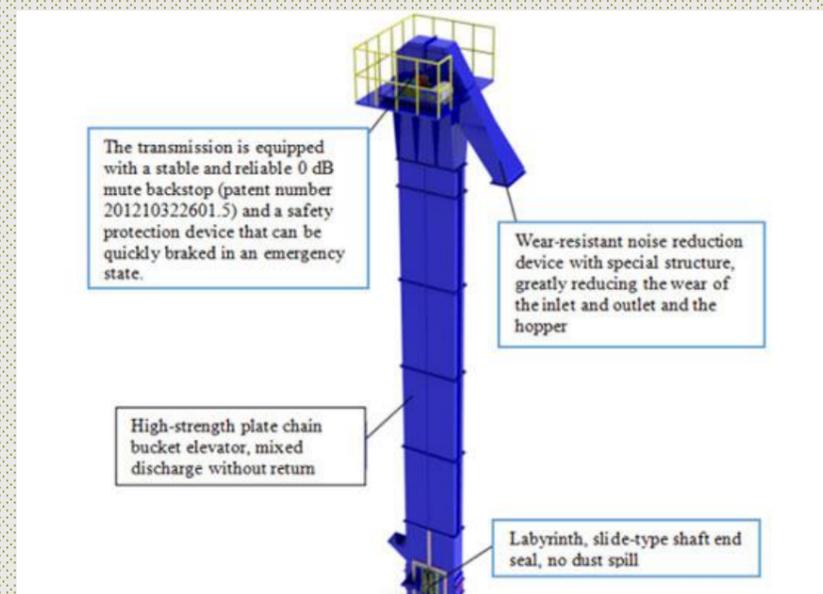
Provide greater uniformity of the aggregate veil through the gas stream during the drying process, across a wide variety of mix designs and tonnage rates.

## 3. COMBUSTION FLIGHTS

Prevent aggregate from impinging on the flame while spreading the material to maximize radiant heat transfer.

### Sinoroaders | Aggregates elevating system

- ①. The aggregates elevator takes modular design with newest dust sealing structure;
- ②. Elevator applies double plate link chains design, which extends the elevator's service life and reduces maintain frequency.
- ③. Excellent leakproofness with the motors;
- ④. Applies famous cycloidal pin gear speed reducers, more powerful and reliable;
- ⑤. The aggregates slide tunnel adopts damping structure wear-resisting plate link chains to enhance the performance.



## Sinoroader | Screening system

Vibrating screens are used to screen heated hot aggregates to ensure accurate oil-stone ratios. We use a special vibrating screen for the asphalt mixing plant to better meet the requirements of the entire equipment. Fine processing and careful assembly ensure the superior quality of all equipment. Vibrating screen bearings use internationally renowned brands (SFK or FAG) to ensure the stability of the equipment. The whole equipment is maintenance-free, and the large opening structure can quickly change the screen.

- ①. Vibrating screens that apply world famous vibration motors are completely sealed;
- ②. Aggregate storage bin adopts large bin structure to avoid material overflow;
- ③. Aggregate bins are separated by high strength wear-resisting plate to avoid aggregates mixing.



Asphalt Mix Plant Manufacture, Drum Mix Asphalt Plant, Mobile Mix Asphalt Plant, 80t/h Asphalt Mixing Plant, Asphalt Hot Mix Plant, Mobile Continuous Asphalt Mixing Plant

1. Sturdy and durable, high intensity and remarkable screening effect;
2. Screen mesh easy to maintain and replace, time saving;
3. Frequency and amplitude perfectly matched, over 95% grading precision, competent to any severe working situation, high temperature resistance and excellent productivity;
4. Best design to guarantee the best screening result.
  - a. Adopts self-synchronizing driving technology, maintenance-free and environmental;
  - b. Patent enhanced drivable bridge structure design, tough and protective for screening components;

c. Famous vibrating motor.

### Sinoroader | Weighing system

Batch mix asphalt plant, asphalt road construction machinery, YLB700/YLB1000/YLB1500/YLB2000 asphalt mixing plant, mobile asphalt mixing plant, drum mix asphalt plant, continuous asphalt mixing plant, asphalt hot mix plant. Adopts world famous brand (TOLEDO) weighing component, to make sure that the measurement error of aggregates is below 0.5%, and the measurement error of bitumen and filler is below 0.25%.



### Sinoroader | Mixing system

Batch mix asphalt plant, asphalt road construction machinery, 60t/h, 80t/h, 120t/h, 160t/h capacity asphalt mixing plant, mobile asphalt mixing plant, drum mix asphalt plant, continuous asphalt mixing plant, asphalt hot mix plant, recycle asphalt plant.

1. Simulating optimization of material mixing movement speed;
2. Ensures each batch is totally and equally mixed with 25% mixing efficiency enhancement and 20% energy consumption reduction;
3. High productivity double-shaft mixer.
4. The mixer, mixing blades and liner plates are all using the best materials with high hardness and high abrasion performance;
5. The cycloidal pin gear speed reducer has better transmission efficiency and simpler structure.

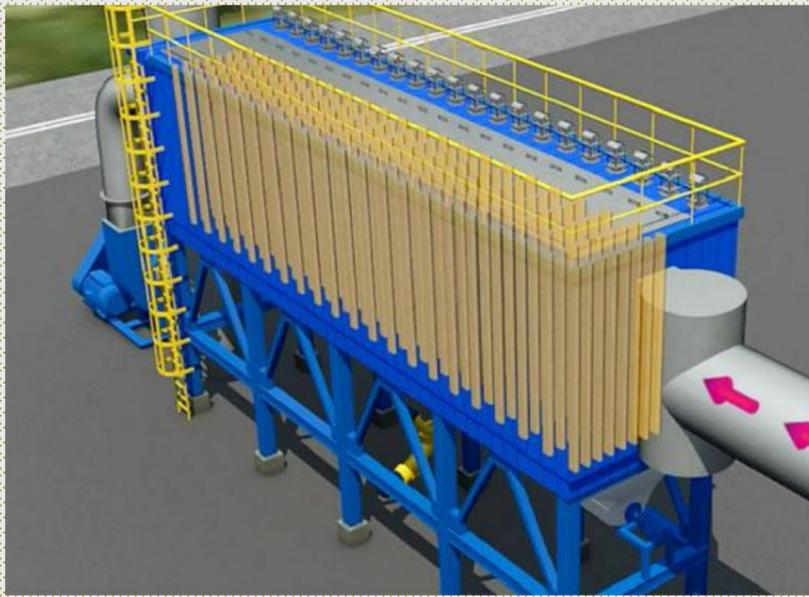


## Sinoroader | Dust Collecting System

In the asphalt equipment industry, we have been developing for many years. Our asphalt mixing plant is equipped with our own bag filter. The bag filter adopts the principle of atmospheric back-blowing. The dust-removing area is large and the dust-removing efficiency is high. The bag filter has a simple structure, simple installation, low failure rate and high recovery efficiency.

The batch mix asphalt plant, asphalt road construction machinery, 60t/h, 80t/h, 120t/h, 160t/h capacity asphalt mixing plant, mobile asphalt mixing plant, drum mix asphalt plant, continuous asphalt mixing plant, asphalt hot mix plant baghouse is fitted directly over the dryer to eliminate ductwork. The baghouse utilizes two-stage filtration with a primary collector which separates coarse material from the gas stream and protects the bags from abrasion.

The dust-laden gas then enters the baghouse where the dust collects on the heat-resistant meta aramid bags. Pneumatically operated cylinders clean bags a row at a time. Collected dust can be stored or returned to the mix.



1. The system adopts high-pressure pulse cleaning method, and the residual dust is small. All the dust can be transported to the circulating silo for reuse or discharge through the recycling packing conveying device. Emission concentration does not exceed 20mg/Nm<sup>3</sup>
2. The bag is made of high-efficiency filter material produced by DuPont of the United States. The bag has high temperature resistance, low loss and long service life.

## Sinoroaders | Bitumen Pump

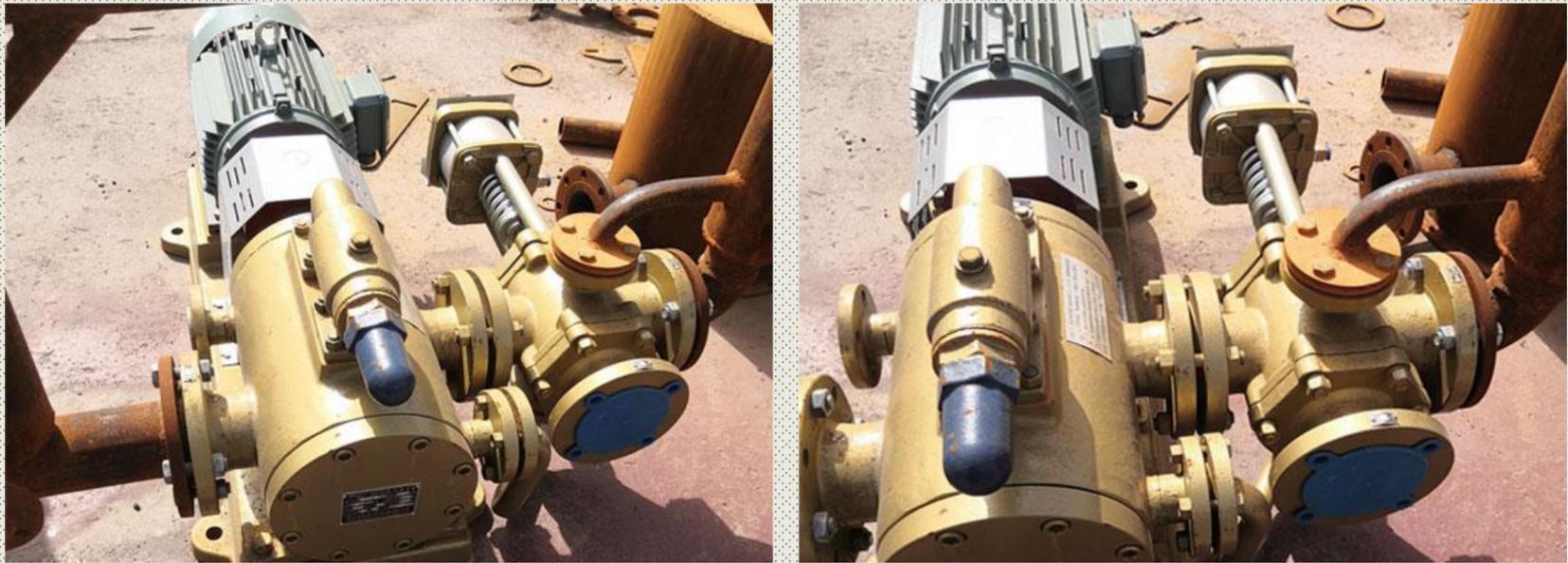
Batch mix asphalt plant, asphalt road construction machinery, YLB700/YLB1000/YLB1500/YLB2000 asphalt mixing plant, mobile asphalt mixing plant, drum mix asphalt plant, continuous asphalt mixing plant, asphalt hot mix plant. Three-Screw Pump of asphalt mixing plant is a positive displacement pump, and has the remarkable advantages such as simple structure, small volume, being allowed to rotate at high speed, stability and high efficiency, etc.

By using the principle of screw meshing and relying on the mutual meshing of rotating screws in pump block, the three-screw pump of asphalt mixing plant sucks the medium conveyed and seals it in the meshing

cavity, then pushes it to the discharge port along the axial direction of screws at uniform speed, and forms stable pressure at the discharge port.

Three-Screw pump of asphalt mixing plant is only applicable to conveying lubricating fluids not containing solid particles at normal temperature. It may be used as a common delivery pump, and a pressure supply pump in hydraulic drive device.

The 3QGB series heat-preservation high-viscosity three-screw pumps developed by the company after many years of research optimize the cooperation between screw and pump block, and between driving screw and driven screw based on three-screw pump, in order to realize the delivery on **high-temperature and high-viscosity media**.



The 3QGB series heat-preservation high-viscosity three-screw pumps are mainly used to convey high-viscosity lubricating fluids. They are usually used as the delivery pumps of asphalt, heavy fuel oil, heavy gear oil and heavy diesel fuel. Inside the pumps, heat preservation chamber and channel are set up, gas or liquid could be used as heat carrier, and their maximum working temperature is equal to or lower than 350°C. High viscosity reduction, and the conveying viscosity is generally 3.0~760mm<sup>2</sup>.

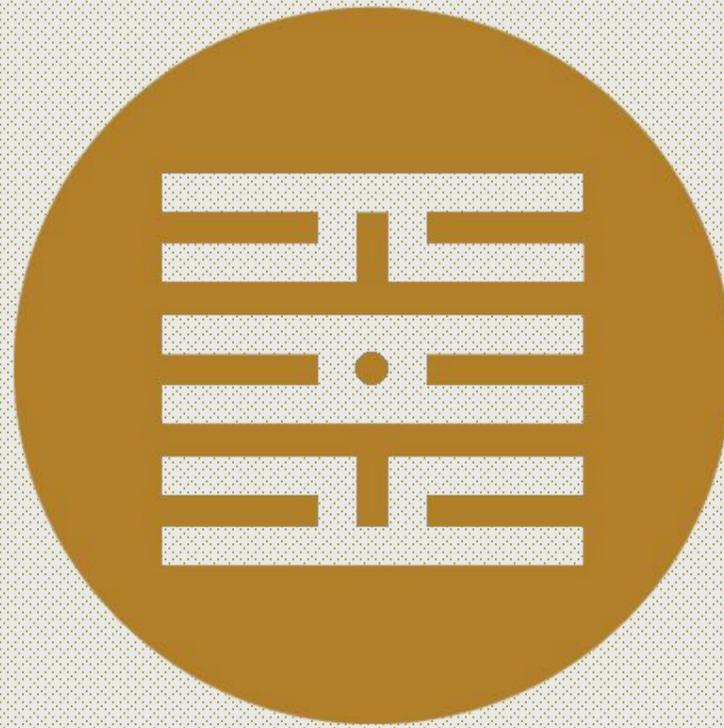
## Sinoroader | Control system

- ①. Fancy control room for operator, nice operating environment and good sound insulation effect;
- ②. Control room is equipped with split-type air conditioner, aluminium alloy sliding windows, wood floor and so on;
- ③. All operations are integrated in one room, auto and semi-auto control makes it easy to operate.



### YLB MOBILE ASPHALT MIXING PLANT RANGE DETAILS

Model	YLB700	YLB1000	YLB1500	YLB2000	
Capacity	60 t/h	80 t/h	120 t/h	160 t/h	
Mixer Capacity	700 kg/batch	1000 kg/batch	1500 kg/batch	2000 kg/batch	
Fuel Consumption	Diesel consumption: 5.5-7 kg/ton				
Weighing Precision	Hot aggregate: $\pm 0.5\%$ ; bitumen: $\pm 0.3\%$ ; filler: $\pm 0.2\%$				
Hot Asphalt Temperature	130°C-165°C (adjustable)				
Air Emissions	$\leq 20 \text{ mg/Nm}^3$				
Working Noise	$\leq 70 \text{ db(A)}$				
Operation	Full Auto/Manual Operation				
Installation Power	157 kW	241 kW	330 kW	412 kW	
Voltage	220V/380V-50Hz (adjustable)				
Plant Covering Area	Length	35 m	40 m	40 m	42 m
	Width	26 m	28 m	32 m	32 m
	Height	15 m	15 m	16 m	16 m
Documents	Lay-Out/ Electric Circuit Diagram; Chinese-English Operation Manual; Qualification Certificate.				



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