

# HENAN SINORoader HEAVY INDUSTRY CORPORATION



## CLB-Series Modular Batch Mixing Plant

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## ABOUT US

HENAN SINORoader HEAVY INDUSTRY MACHINERY MANUFACTURING CO.,LTD,WE ARE LOCATED IN ZHENGZHOU CITY OF HENAN PEOVINCE,WHICH IS NOT ONLY ONE OF THE LARCEST INDUSTRIAL ENTERPRISE GROUPS OF CHINA BUT AL SO ONE OF THE KEY ENTERPRISES IN CHINA'S CONSTRUCTION MACHINERY INDUSTRY.OUR TOTAL ASSETS AMOUNT TO ABOUT RMB1.2 BIL-LION;WE HAVE ABOUT 1200 EMPLOYEES:OUR COMPANY COVERS A GROSS AREA OF MORE THAN 80,000M<sup>2</sup>

## APPLICATIONS & ADVANTAGES

- CLB-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

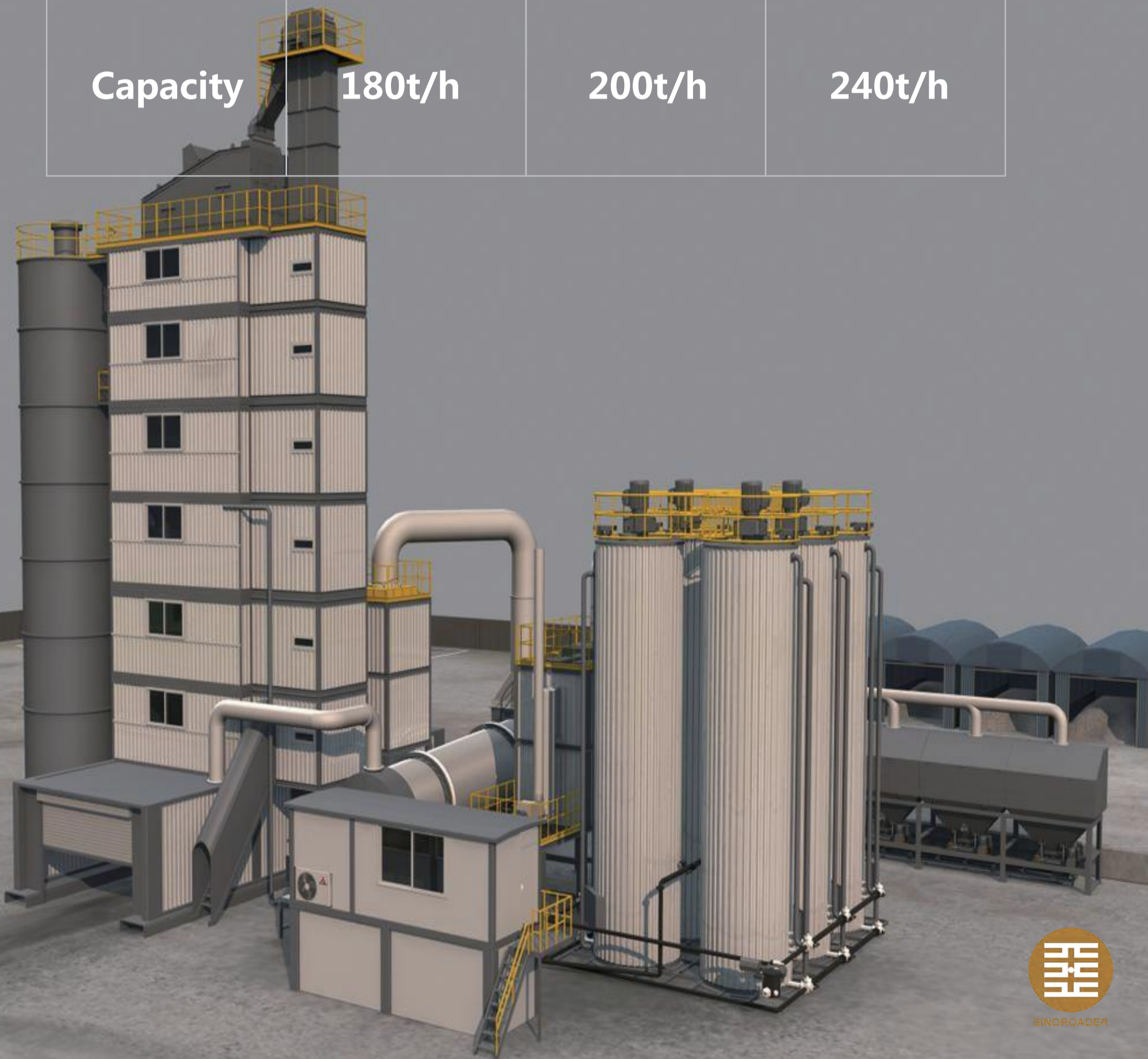
- Modular design
- Compact structure
- Easy set up
- Foundation free
- Pre-assembly



# SELECTION SCHEME

## CLB-Series Modular Batch Mixing Plant

| Model    | CLB2000 | CLB2500 | CLB3000 |
|----------|---------|---------|---------|
| Capacity | 180t/h  | 200t/h  | 240t/h  |



# FEATURES

## CLB-Series | Modular Batch Mixing Plant

- ①. MB series asphalt plant is the product combined with various advantages of western models , adopts modular design , compact structure simple assembly and transport.
- ②. 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.
- ③. The strict trial assembly test machine of each set of equipment before delivery can guarantee stable quality and high standard of the product.



- ④. Adopts human-computer interface and PLC control system, perfect human-machine exchange function, easy to operate.
- ⑤. Reasonable and multiple layout modes, the layout can be ordered according to different requirements to adapt the actual construction requirements better.
- ⑥. Low consumption, high efficiency, environment friendly design is the ideal choice of different kinds of roads.



## COLD FEED

### 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

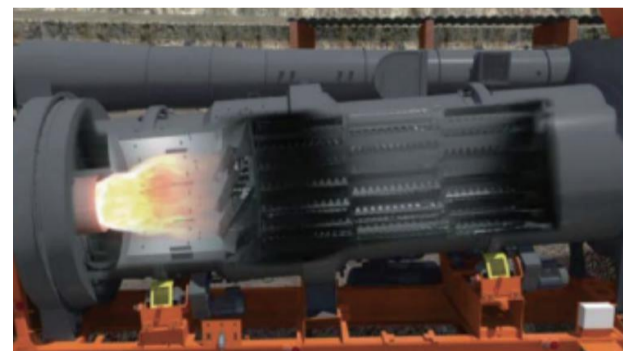
Set up of cold feed bins is accomplished with minimal investment of time and money due to the modular.



## DRYING SYSTEM

### Counter-flow dryer drum

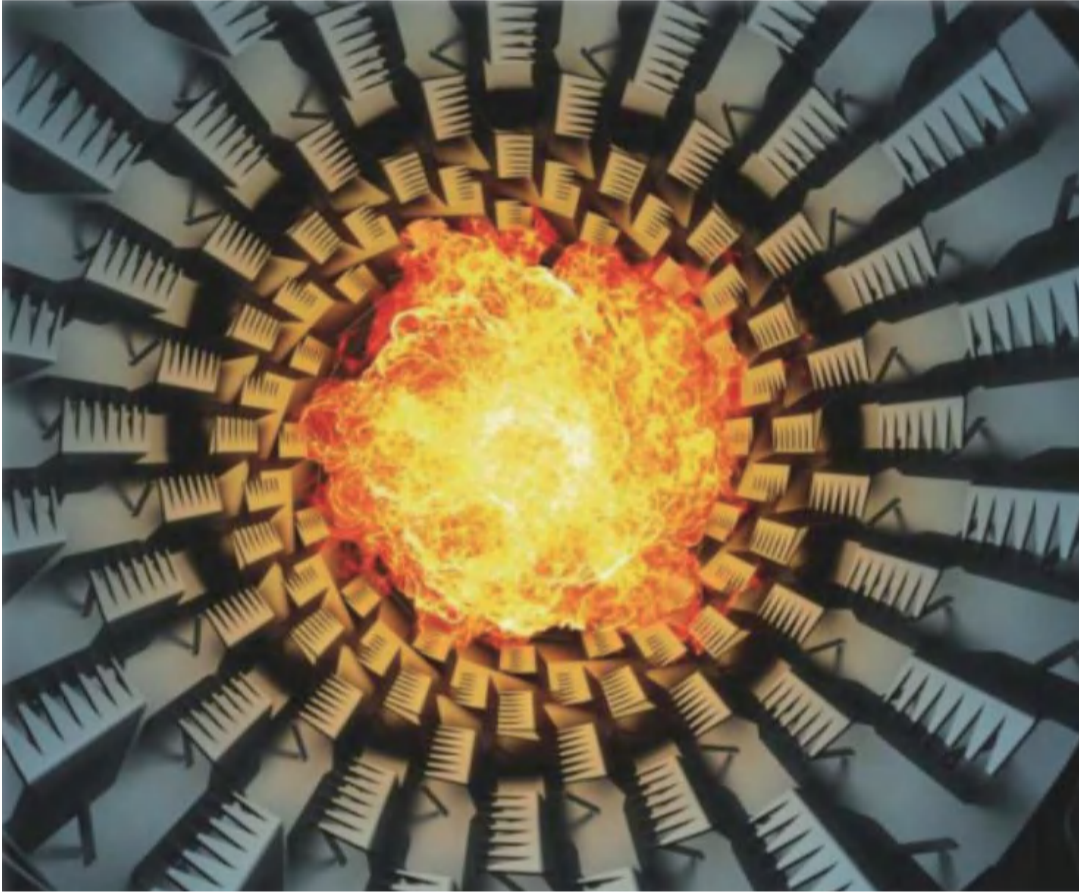
The drum counter-flow rotary drying heating method is provided with a spiral rewinding blade and a feeding blade in the cylinder body, and different shapes of reversing blades are installed in different regions, and the drum cylinder body has an inclination angle of about 3.5-4 degrees, and the outer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

# AIR BURNER



## 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

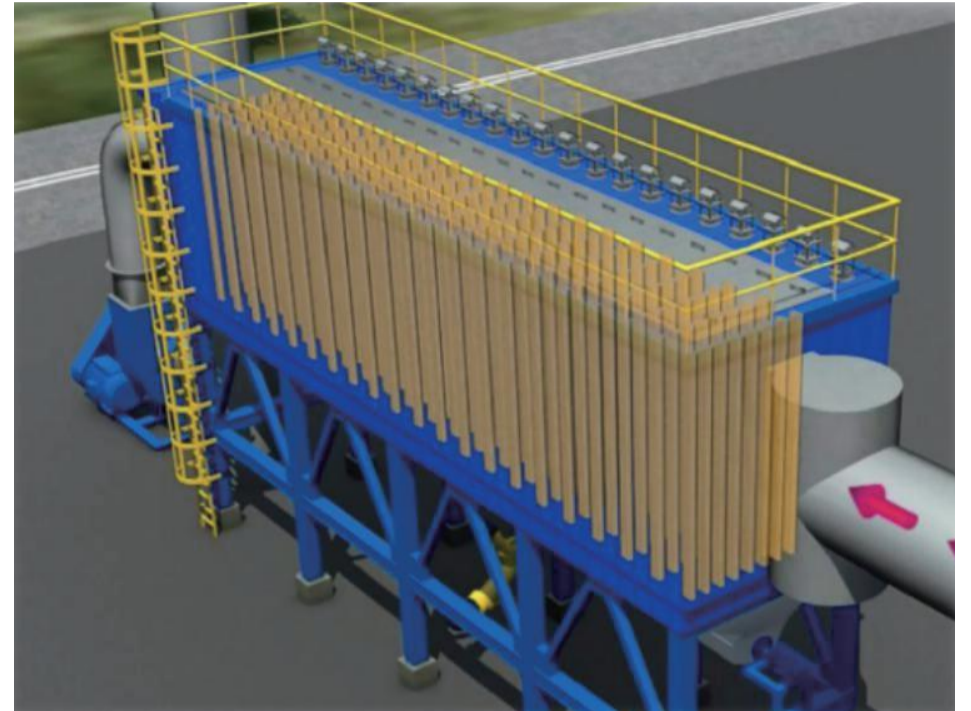
It is also equipped with a manual function to ensure the normal operation of the burner through a manual system when the system fails. Automatic burner stop, automatic fault diagnosis and fault check guidance are also optional. Innovative automatic control of the burner according to the need to heat 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 20mgNm<sup>3</sup>.



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### 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





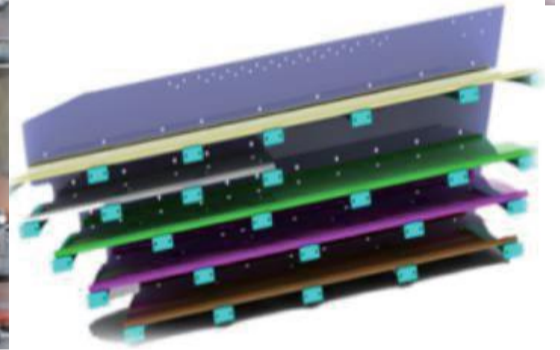
## VIBRATING SCREEN

### 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

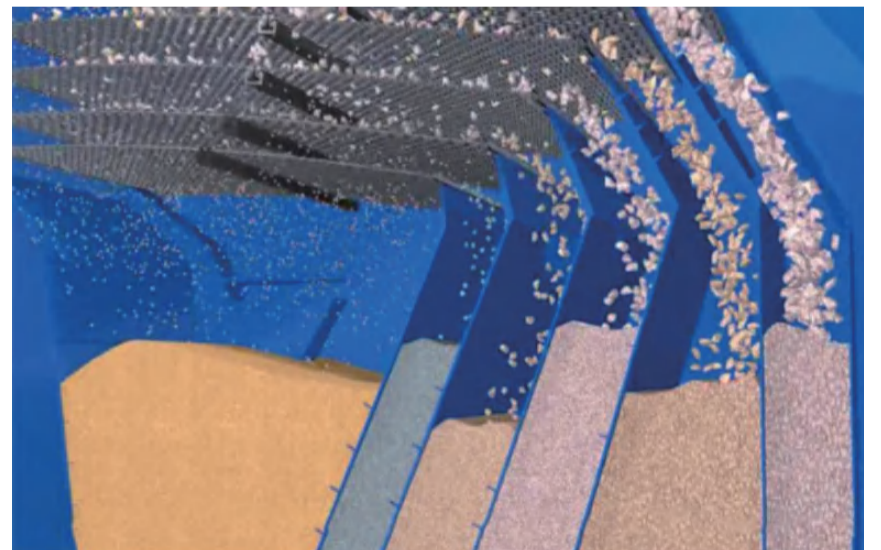
Screen layered segmentation multi-deck design, large screening area.



## 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 indicator on eachbin which can display material level changing condition continuously.



# MIXER

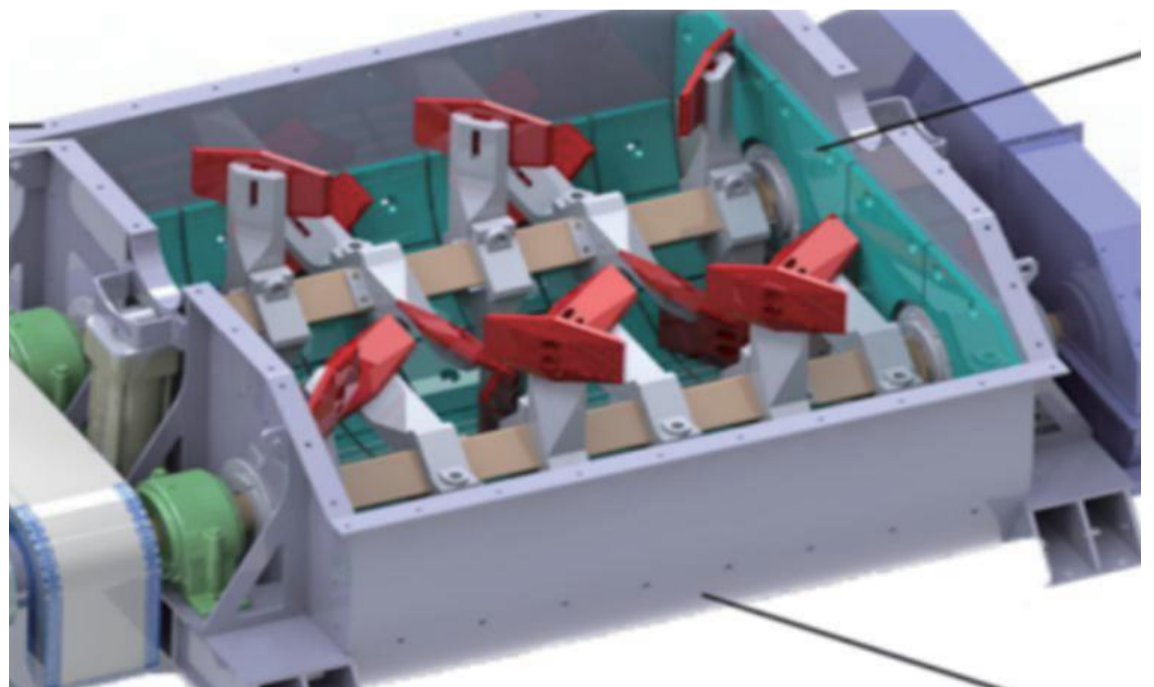
## Superior well mixing

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 and advanced experience. Through 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 brokencodevice, 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 valvewhich enhance weighingprecision. 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.

# PROJECT CASE



240TPH Asphalt Batch Mix Plant Running Smoothly in Uzbekistan



120TPH Asphalt Plant in Malaysia Won Client's Praise



LB Asphalt Batch Mixing Plant in Nigeria



DHB80 Continuous Asphalt Mixing Plant Erected in Peru

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YLB700 Mobile Asphalt Mixing Plant in Ethiopia



ELB1500 Environmental-friendly Asphalt Mixing Plant in Australia



First LB1500 Asphalt Batch Mix Plant Successfully Erected in Thailand



MDHB20 Asphalt Drum Plant in Kenya Successful Installed

# HENAN SINORoader HEAVY INDUSTRY CORPORATION



**Add:Longxiang Industrial Park ,Weidu District, XuChang,HeNan, China**

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Tel:+86-371-65825868

WhatsApp/Wechat:+86 181 3785 8347

Email:info@sinoroader.com

Website:www.sinoroader.com or www.asphalt-mix.com