

# HENAN SINORoader HEAVY INDUSTRY CORPORATION



**( PMB ) POLYMER MODIFIED BITUMEN 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 BILLION;WE HAVE ABOUT 1200 EMPLOYEES:OUR COMPANY COVERS A GROSS AREA OF MORE THAN 80,000M<sup>2</sup>

# PRODUCT

Model	PMB15	PMB20
Productivity ( t/h )	15	20
Heating Method	Thermal Oil	
Heat exchange area of heatingdevice ( m <sup>2</sup> )	90	100
Modifier extraction capacity ( t/h )	4	4
Mixing tank volume ( m <sup>3</sup> )	5×2	6×2
Mixing power ( Kw )	7.5×2	11×2
Colloid mill power ( Kw )	65×2	75×2
Weight ( t )	15	25
Shipping packing method	40HQ×1+20GP×1	40HQ×1+20GP×1

## Product Details

### Brief Introduction

PMB plant is our company's rich experience in the manufacture of asphalt heating equipment, rubber asphalt equipment and SBS modified asphalt equipment. After careful design and repeated improvement, the most advanced technology and the most stable performance. product. The equipment can stir the matrix asphalt, rubber powder, SBS particles, additives and the like through high-speed shearing and grinding of the shear mill, so that the modifier is fully dispersed into the matrix asphalt by chemical and physical action, and the matrix is completed. Modification of asphalt.



# Product Details

## Main features

(1) The PMB plant adopts the overall mobile structure. It is mainly suitable for the production of modified asphalt on site, and has the superiority of the overall transportation conditions of the automobile. It can also be directly connected with the asphalt mixing equipment for on-site modification, on-site mixing processing, and the factory-produced equipment can be directly moved to the construction site.

(2) The equipment batching tank is equipped with the heater and strong composite frame type stirring device independently developed by our company. It can stir and mix the asphalt and modifier while heating, so that the modifier is evenly dispersed into the asphalt. After being swollen, it is transferred to a shear mill. The shearing mill adopts the most advanced international technology to combine high-speed shearing and grinding. After one shearing and grinding, the minimum particle size of the material can reach 2-5 $\mu$ m, and its efficiency far exceeds that of similar products. The stator with high strength is selected. The rotor has good wear resistance and corrosion resistance, and can maintain a small stable gap to ensure stability and durability.

(3) The electrical control box adopts high-quality supporting electrical components to greatly improve the running stability of the equipment. This equipment adopts the self-developed PLC running system, equipped with color human-machine dialogue touch screen, which can display and automatically control the temperature in the production process, flow, liquid level. The operation interface is intuitive, simple and easy to understand, with high automation, reduced labor, high production efficiency and low failure rate.

(4) Equipment composition: There are mainly batching tanks (including insulation layer), transfer tanks, heat transfer oil coil heaters, mixing units, matrix asphalt pumps, asphalt transfer pumps, finished asphalt pumps, shear mills, SBS feeders, Asphalt temperature display, asphalt liquid level display, flow meter, electric valve, pipeline and asphalt pump preheating system, ladder, power distribution control cabinet, control room.



# Product Details

## Main Configuration

A 55Kw modified asphalt shear mill

Three sets of 7.5kw planetary cycloid gear reducer and agitator

A set of 5.5kw inclined spiral conveyor

11KW YCB circular gear pump 2 sets

7.5KW LC rotor base asphalt pump 1 set

3KW rubber oil adding pump 1 set

Two sets of swelling tanks for asphalt batching

A set of semi-finished transit tanks

The spiral plate heat exchanger 1 150 m<sup>2</sup>

One elliptical gear pitch flowmeter

One elliptical gear rubber oil or additive flowmeter

3 pressure sensing liquid level meters

Electric thermal oil valve 3, electric asphalt valve 5, manual valve more than

Skg-01 control system 1 set

One control room



## Structure & Components

### Sinoroader | Grinding System

The grinding system is the most critical part of the whole equipment. The modifier and asphalt mixture are fully sheared and the modifier is evenly dispersed in the asphalt. Two high-power colloid mills are used in series or in parallel to meet any process grinding requirements. In case of failure, it can be used alone.



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### Sinoroader | Rapid Heating Device

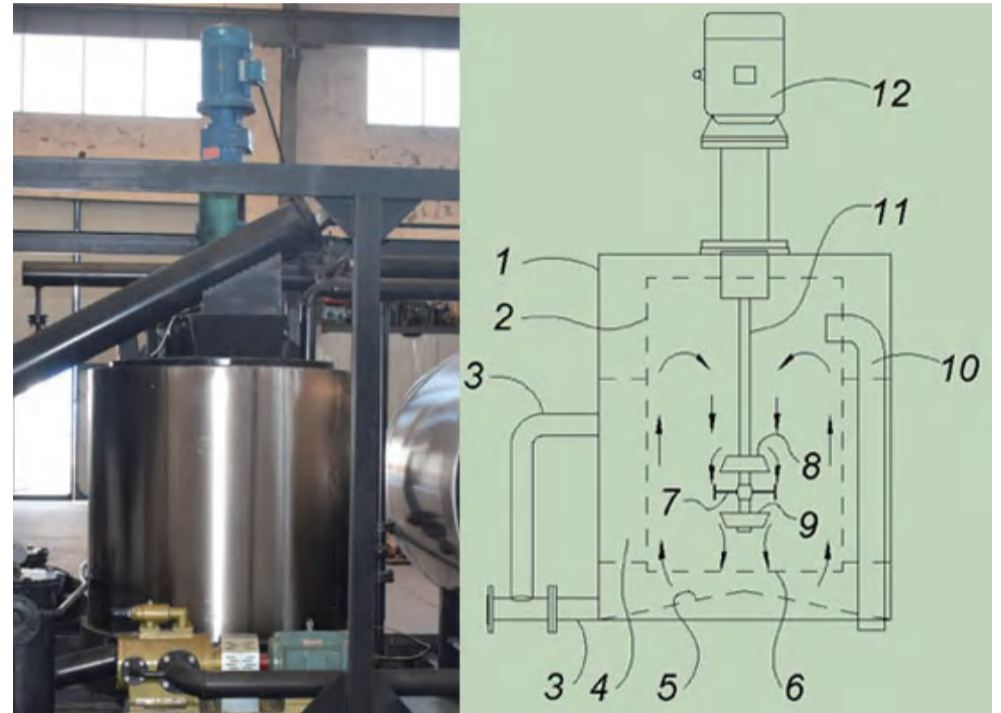
The rapid heating part uses two spiral plate heat exchangers in series to exchange heat between the asphalt and the heat transfer oil in a closed condition. It can quickly raise the asphalt by more than 50 degrees. At the same time, the pneumatic control valve and the asphalt pump speed regulation double insurance are used to adjust the asphalt heating temperature to ensure the production operation can be carried out under a very small temperature difference.



## Structure & Components

### Sinoroader | Swelling Batching System

The equipment uses two swelling tanks, and the asphalt and the modifier are separately added to the swelling tank for swelling, and the two tanks are used alternately to increase the swelling time of the modifier, so that the ratio is more accurate.



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### Sinoroader | Modifier Metering Lifting Device

The equipment is equipped with two sets of modifier lifting devices, which transport the modifier into the swelling tank and mix with the asphalt. You can choose to operate with a hoist or a screw conveyor.



## PROJECT CASE



Hydraulic Drummed Bitumen Decanter in Uzbekistan  
Tashkent, Uzbekistan, handles 300 tons of bitumen in bags  
January 21th, 2020



Bitumen Melting Machine/Bitumen Decanter in Nigeria  
Lagos, Nigeria, handles 800 barrels of asphalt  
January 03th, 2020



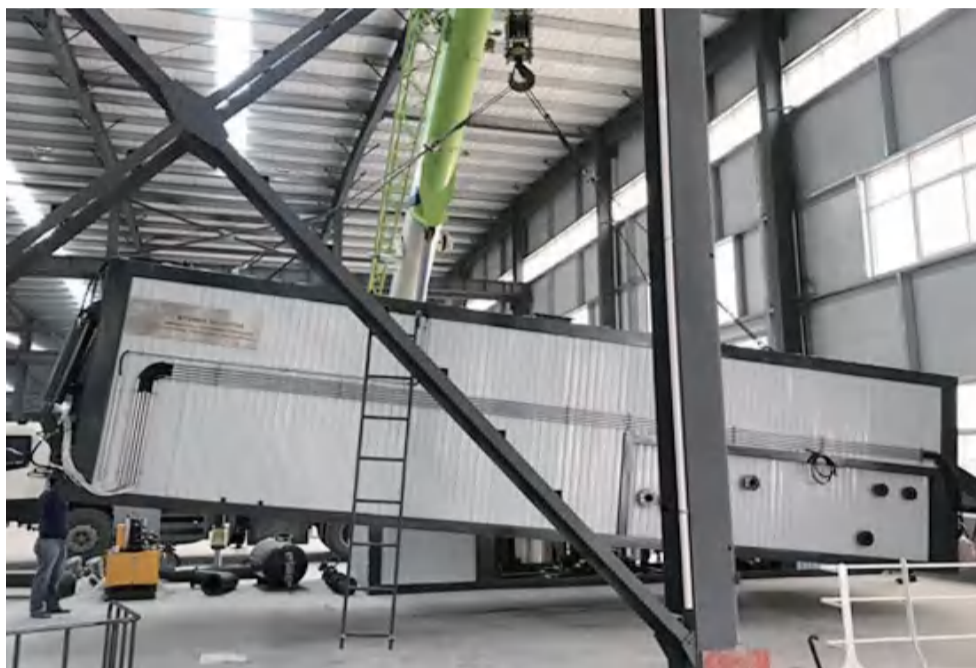
Bitumen Emulsion Plant in Ethiopia  
Addis ababa, Ethiopia, treated 200 tons of asphalt for road  
construction November 27th, 2019



Polymer Modified Bitumen Plant in Australia  
Three hundred tons of modified asphalt were treated in  
Melbourne, Australia. September 13th, 2019



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Hydraulic Drummed Bitumen Decanter in Thailand  
Bangkok, Thailand handles 800 bags of bitumen  
August 27th, 2019



Bitumen Emulsion Plant in Peru  
Cusco, Peru, treated 200 tons of asphalt to build roads  
July 18th, 2019



Hydraulic Drummed Bitumen Decanter in Philippines  
Cebu in the Philippines treated 300 tons of bitumen in bags  
June 07th, 2019



Bitumen Emulsion Plant in Africa  
Cairo, Africa, treated 300 tons of asphalt to build roads  
April 21th, 2019

# 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