



SINORoader

Henan Sinoroad Heavy Industry Corporation



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EMULSION BITUMEN PLANT MANUAL

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COMPANY PROFILE »»

Henan Sinoroad Heavy Industry Corporation is a world-famous road and bridge machinery manufacturer, located in Zhengzhou City, Henan Province. Our producing base is located in Weidu District, Xuchang City with factory area over 80000m².

Sinoroad has first-class production equipment and R&D team.

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

Sinoroad has developed a comprehensive understanding of asphalt mixing plant technology. This mastery sets Sinoroad apart from its competitors and delivers true value to the road construction industry. Professional design team and mature production line can meet customized needs.



Product Description »»

The bitumen emulsification unit mainly produced by our company is an accurate automatic proportioning model of general-purpose emulsified bitumen production equipment. The human-machine interface inputs the bitumen and the proportioning amount of the emulsion. The industrial computer PLC adjusts the speed of the bitumen pump and the emulsion pump according to the real-time data of the flow meter. The solid content of emulsified bitumen can achieve accurate automatic proportioning, and the content deviation is not more than 2%. It is a high-end intelligent emulsified bitumen production equipment. It can produce cationic, anionic emulsified bitumen and modified emulsified bitumen with an bitumen content below 65%.

Applications Of Emulsified Bitumen Equipment:



Highway: spray-type projects such as penetration layer, stick layer, gravel seal layer, etc., mixing projects such as slurry seal layer, micro-surface, cold recycling;

Waterproofing: the production of respective basic emulsified bitumen, such as road and bridge waterproofing materials, liquid coils, etc.;

Anti-corrosion: base coating and emulsified bitumen production of water-based bitumen paint.

Six Features Of The Product »»

1

The equipment is self-contained, which is convenient to move and install, and can adapt to different site conditions and meet the requirements of use;

2

Corrosion-resistant design, the emulsifier and all soap-flowing parts are made of stainless steel or PPR, and the equipment has a long service life;

3

Pay attention to product details and quality, the equipment is stable and durable, and there will be no pipeline blockage and liquid leakage;

4

The operation is simple and direct, the ratio of bitumen and emulsion is automatically controlled, the solid content is automatically and accurately adjusted in real time, and it has anti-misoperation and multiple protection functions;

5

The equipment is cost-effective and can make almost all kinds of emulsified bitumen currently on the market with little investment;

6

It is designed according to the size of the container, which is convenient for standardized transportation and meets the needs of the international market.



The Main Technical Parameters »»

Type	BE04(Simple style)
Productivity(t/h)	4-6T
Heating method	Thermal oil Heating/Burner Direct Heating
Operation method	manual/semi-automatic
Emulsifying fineness	/
Emulsified bitumen type	30-55% ordinary emulsified bitumen 30-55% modified emulsified bitumen(internally mixed type)
Total power capacity	35KW
Dimensions	5800x2100x2300mm(adjustable)
Weight	5.0T
Main applications	adhesive layer,transparent layer,sealing layer spraying,etc.

Type	BE06
Productivity(t/h)	6-8T/H
Heating method	Thermal oil Heating/Burner Direct Heating
Operation method	Manual/semi-automatic/full-intelligent
Emulsifying fineness	Less than 5 microns account for more than 90%
Emulsified bitumen type	30-66% ordinary emulsified bitumen 30-66% modified emulsified bitumen 30-50% emulsified SBS modified bitumen (Please specify in advance for the production of cutback bitumen)
Total power capacity	57KW
Dimensions	7500x2200x2450mm(adjustable)
Weight	6.2T
Main applications	Modified emulsified bitumen sticky layer with high construction requirements (SBR latex modified or SBS modified high viscosity emulsified bitumen) , through-layer spraying, slurry seal,micro-surface (modified emulsified bitumen with a solid content of more than 63%)), cold mix,cold regeneration, etc.

The Main Technical Parameters »»



Equipment Structure »»



Type	BE10
Productivity(t/h)	8-10T/H
Heating method	Thermal oil Heating/Burner Direct Heating
Operation method	Manual/semi-automatic/full-intelligent
Emulsifying fineness	Less than 5 microns account for more than 90%
Emulsified bitumen type	30-66% ordinary emulsified bitumen 30-66% modified emulsified bitumen 30-50% emulsified SBS modified bitumen (Please specify in advance for the production of cutback bitumen)
Total power capacity	70KW
Dimensions	8500x2200x2450mm(adjustable)
Weight	7.0T
Main applications	Modified emulsified bitumen sticky layer with high construction requirements (SBR latex modified or SBS modified high viscosity emulsified bitumen) , through-layer spraying, slurry seal, micro-surface (modified emulsified bitumen with a solid content of more than 63%)), cold mix, cold regeneration, etc.



PLC Control System

This set of equipment adopts an intelligent central control system, which can choose automatic or manual control of "oil-water ratio", output and start-stop, protection and other functions of all motors. Main components: bitumen flowmeter, soap flowmeter, frequency converter, Siemens PLC, touch screen, etc., to ensure that the proportioning error of materials is within 2%.

Bitumen Pump

The bitumen pump adopts the three-screw pump produced by the Chinese bitumen pump standard drafting unit. It has the characteristics of low power consumption, high noise, overpressure protection, and reliable sealing.



Equipment Structure >>>

Colloid Mill

The first-class colloid mill used in China is corrosion-resistant, multi-layer shearing, and the emulsification fineness of the product is less than 5 microns, accounting for more than 90%, energy saving, good emulsification effect and long service life.



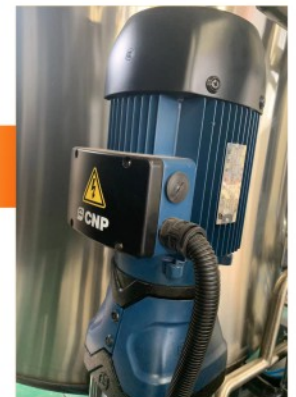
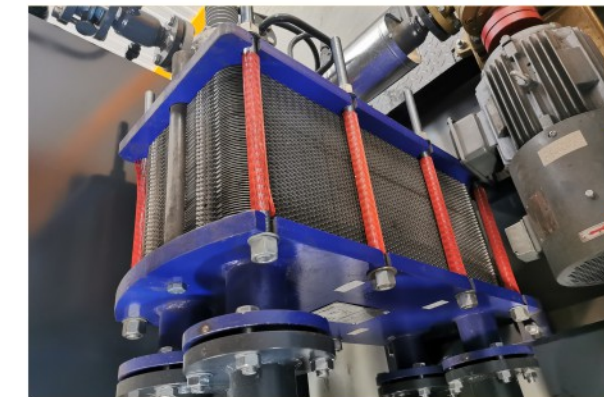
Pipelines and Valves

Bitumen and emulsion are equipped with pressure and temperature instruments to monitor the production status, and the bitumen pipeline is heat traced throughout the process and has bitumen filtration and circulation functions. Two emulsion preparation tanks can be used alternately to achieve the purpose of continuous production. The tank is all made of 304 stainless steel, and all the emulsion flow lines are made of PPR or stainless steel, which can effectively prevent the corrosion of the emulsion, and the two media of bitumen and emulsion will not appear liquid with each other, which increases their service life.



Emulsion Flow Meter

Using the domestic well-known enterprise flowmeter, it can transmit the real-time flow data of bitumen and emulsion to the industrial computer PLC. Solid content ratio. This type of flowmeter adopts the volumetric measurement accuracy to reach 0.5 level, and is the first measurement instrument allowed by the country to be used in the oil sales industry such as fuel dispensers.



Emulsion Pump

The emulsion pump is a stainless steel multi-stage pump from the Chinese listed company Nanfang Pump, with high lift and corrosion resistance. The flow range is 3-10m³/h. The performance is better than that of the stainless steel gear pump used by general manufacturers

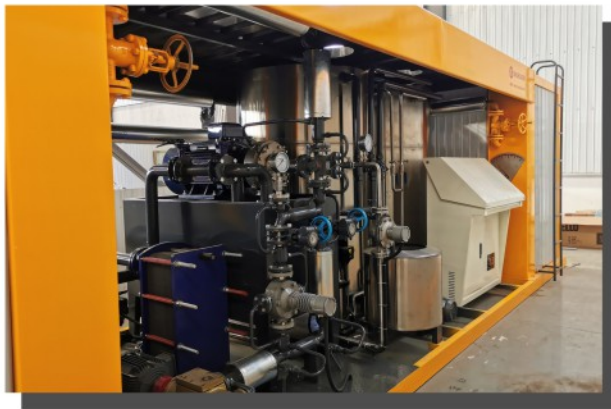
Emulsion Bitumen Cooling system

The bitumen emulsification unit is equipped with a plate heat exchanger with high heat exchange efficiency and compact structure. The unit is also equipped with a circulating water system, which is automatically supplemented to the production water to truly save energy. The outlet temperature of emulsified bitumen is cooled from 90°C to below 60°C, and the production water hardly needs to consume energy for heating

Delivery Picture »»



Construct images



Tiradentes detail



Transportation pictures



Our emulsion bitumen plant has been exported to 25 countries in Africa, Asia and Oceania to help their road construction projects, which have been recognized by customers.