
RAM Series Hot Mix Asphalt Recycling Plant

RAM RECYCLED ASPHALT PLANT

FOR OLD ASPHALT PAVEMENT TO RELIZE NEW ASPHALT

MITNIK RAM Asphalt Recycling Plant is the old asphalt pavement after reclamation of special equipment for re-digging, recycling, and after heating, crushing, screening, and regenerative agent, new asphalt, and new materials etc according to certain proportion mixing into the mixture and satisfy certain road performance and to construct a complete set of technology on the road.

The RAM hot recycled asphalt plant technical features:

1. Make full use of the old asphalt material characteristics and mechanical motion principles of heating, realize the reworked material rapid heating up, and avoids asphalt by aging or coking, with good quality, high efficiency, and stable.
2. The unique blade design, improve the efficiency of heat exchange, and avoid the problem of asphalt binder.
3. The original asphalt smoke recycling technology, effectively solve the environmental problem, and reduces the energy consumption
4. Double hoppers recycling cold material system can be used at the same time asphalt recycling material of two kinds of size.
5. Unique design of cold bin, side wall is very steep (58 degrees), ensure smooth material flow, to prevent the arch.
6. Higher reliability of belt conveyor and belt feeder, guarantee the stable operation.
7. Recycled material heated air indirect heating, avoid recycling of material produced in the process of heating asphalt aging.
8. Equipped with multi-point temperature measurement system, respectively after the hot air, heat recycling materials, the temperature of the exhaust gas monitoring and automatic control.
9. With weighing system on the heat recycling material bin, ease of operation management.
10. Recycling materials weighing, regenerant for quantity, can be in accordance with the target gradation after setting to realize automatic control.
11. Regenerative mixing equipment with the host through the PLC communication realize the whole process of automation. The cold material system



1. Cold feeding system;

For two sets of independent cold bin, single including capacity of 9 m after, warehouse top has no shaking, alarm lamp and the overrun of material into the hopper of netting, bin wall is equipped with vibrators, at the same time, according to the characteristics of old asphalt recycling material bad mobility, arch breaker is equipped with special structure, to ensure smooth conveying.

2. Feeder system

The opening of the feeding machine adopts frequency control of motor speed and hopper gate opening degree with dual control materials feeding. Raised edge conveyor belt, to prevent overflow. With no material detection and alarm devices, and informed by transmitting signals and alarm lamp on the material.

3. Feeding belt conveyor

Feeding belt conveyor is equipped with a feeder and emergency pull switch. To prevent super specification reworked material into the equipment, specially equipped with a set of cold material vibrating screen, it can timely removal of aniseed and sundry.

4. Heating system + Burner

The heating mode is adopted for the heating system, has the patent protection of internal structure,

flexible blade transmission made full use of heat energy, and ensure the asphalt of recycling materials will be stimulated, and assure the reworked material after heating cylinder wall and blade and not adhesion.



And adopted strict exhaust temperature monitoring, prevent damage and aging of asphalt aggregate. Burner for the Italian import original burner, the use of compressed air atomization, the special burning flame, light oil crude oil dual purpose, equipped with heavy oil preheating system. Reworked material drying heating temperature control: adopt imported infrared thermometer, the temperature control in the range of $\pm 5^{\circ}\text{C}$.

5. Reworked material elevator

Reworked material elevator adopts wear-resisting chain bucket elevator, with a reversal of non-return device.

6. Hot reworked material weighing hopper

It adopts import control weighing sensor, measuring accuracy reached the national standard. Weighing, feeding adopts imported cylinder and electric control valve. Transition hopper, weighing hopper, chute adopts thermal oil heating insulation, to ensure the smooth circulation of reworked material.

7. Dust removal system

Dust removal system of induced draft fan using imported Italian special structure and it can effectively prevent lampblack bonding with fan blades, to achieve environmental protection requirement, the blue smoke caused by hot regeneration drying drum is not directly discharged into the atmosphere, but after flue into asphalt mixing equipment host secondary combustion drying drum to eliminate harmful waste gas, a reasonably self-interest.

8.Control system

Asphalt regeneration equipment control system, using the no button control operation, which can realize full automatic and manual control operation. Dynamic display production process, the humanized control interface, fault alarm display. Main electrical parts were used from the international famous brand. Using the technique of PROFIBUS fieldbus standard, can be easily with the domestic and foreign various types of asphalt mixing equipment control system interface connection.

Product link : <https://www.mitnikmachine.com/?p=1304>