DATASHEET

Bitumen Processing & Storage

Modified, rubber and emulsion bitumen



2000	7	100+	ISO 9001
MANUFACTURER SINCE	MODELS IN THIS FAMILY	EXPORT MARKETS	QUALITY SYSTEM

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Overview

Binder quality is where most surface failures begin. Metong designs the processing side of the chain: crumb-rubber and polymer modification under PLC control, emulsion plants with colloid mills sized to the daily binder demand, and melting equipment that recovers drummed bitumen without scorching it.

Units are offered as container-frame skid plants, mobile trailer plants or fixed stations, with capacities from 6 t/h to 30 t/h. Each package includes heated storage, metering pumps and a control system that logs batch data, so a contractor can prove the binder that went into the road.

Model overview

MODEL DESIGNATION	TYPE / MODEL NUMBER
Rubber Asphalt Plant	AR Series
Mobile Rubber Asphalt Plant	AR-M
Emulsion Asphalt Plant	MTR Series
MTR6 Modified Emulsion Plant	MTR6
MTR10A Modified Emulsion Equipment	MTR10A
MTG15 Polymer Modified Bitumen Unit	MTG15
Drummed Bitumen Melter	DJT Series

Rubber Asphalt Plant · AR Series

Crumb-rubber modified binder plant, 10 to 30 t/h, built under US licence technology.

Model comparison — General Parameter / Model / AR150B / AR150B

PARAMETER	MODELS
General Parameter	Name · Asphalt Rubber Equipment · Asphalt Rubber Equipment
General Parameter	Productivity · 8 ~10T/h · 8 ~10T/h
General Parameter	Engine Total Power · ≤60kw · ≤60kw
General Parameter	Dimension · Host Section (mm) · 9500×2280 ×2310
General Parameter	Dimension · Reaction Part (mm) · 11800×2280 ×2310
General Parameter	Dimension · ·
General Parameter	Structure · Mobile Combination Structure · Mobile Combination Structu…
General Parameter	Ratio · Ratio in rubber powder10%~25% · Ratio in rubber powder10%~25%

Features

• AR300 Rubber Asphalt Plant

• Rubber Asphalt Plant is manufactured in lie of McDonald wet treatment design techniques. The product is extremely resilient high performance that results in high quality and durable asphalt roads

• The equipment electronically measure shredded rubber, circular frequency diversion speed

control to suit road conditions, parameters and geometry

• Asphalt is measured by digital flow meter and monitored by sophisticated frequency conversion pump speed

• The temperature of Rubber Asphalt Plant is manipulated by high powered heat exchanger and efficiently controlled to produce asphalt of various regions

• The storage containers are of large-tonnage separate reactor units which are far more productive and shifted conveniently

Mobile Rubber Asphalt Plant · AR-M

Trailer-mounted rubber asphalt unit that follows the paving spread between sites.

KEY DATA	VALUE
Model	AR100M
Productivity	8 T/h
Total Power of Electrical Equipment	≤60 kw

Specifications

SPECIFICATION	VALUE
Model	AR100M
Name	Mobile Rubber Asphalt Plant
Productivity	8 T/h
Total Power of Electrical Equipment	≤60 kw
Structure	Semi-trailer
Outline Dimensions of Semi-trailer	12970×2500×1291 mm
Outline Dimensions	12970×2500×3900 mm
Mixture Ratio	Rubber Powder: 10%~20% Bitumen: 90%~80%

Emulsion Asphalt Plant · MTR Series

Colloid-mill emulsion plant, 6 to 10 t/h, manual or semi-automatic control.

KEY DATA	VALUE
Productivity	6T/H
Asphalt Gear Pump — Model	40 Type
Emulsifier Water Liquor Gear Pump — Model	40 Type
Colloid Milling — Model	MTR6
Heating Conducting Oil Circulate Pump — Model	50 Type

Specifications

SPECIFICATION	VALUE
Productivity	6T/H

Emulsion Bitumen Mote Diameter	< 0.2mm
Emulsion Bitumen Content	>65%
Dimension(L×W×H)m	7×2.2 ×2.31
Asphalt Gear Pump — Model	40 Type
Asphalt Gear Pump — Generator	4 KW
Asphalt Gear Pump — Flux	6T/H
Emulsifier Water Liquor Gear Pump — Model	40 Type
Emulsifier Water Liquor Gear Pump — Generator	4 KW
Emulsifier Water Liquor Gear Pump — Flux	3T/H
Colloid Milling — Model	MTR6
Colloid Milling — Generator	15 KW
Colloid Milling — Flux	3-6 Club meter
Heating Conducting Oil Circulate Pump — Model	50 Type
Heating Conducting Oil Circulate Pump — Generator	5.5 KW
Heating Conducting Oil Circulate Pump — Flux	2"
Conducting Oil Inlet Pump — Model	25 Type
Conducting Oil Inlet Pump — Generator	3 KW
Conducting Oil Inlet Pump — Flux	1"

Features

• Emulsifier solution technology products include tanks, piping and pipe, and are of high quality 304 stainless that provides absolute corrosion resistant

• Mixer tank and register tank coated with thin steel tank inside and with the additional companion of aluminum silicate preserve heat. It is wrapped by stainless steal and exquisite design

• Emulsification machine adopt modified emulsification machine which can manufacture modified emulsion asphalt and emulsion asphalt

• Basic asphalt pump and emulsion offering pump adopt frequency conversion speed with more convenient operating

• Strength of Mtr6 Emulsion Asphalt Plant

• Simple operation and control

MTR6 Modified Emulsion Plant · MTR6

Container-frame plant producing modified emulsion at 6 t/h.

Model comparison — / Classes / Item / Unit

PARAMETER	MODELS
General Parameter	Model · MTR6 ·
General Parameter	Name · Emulsified Asphalt Equipment ·
General Parameter	Productivity · 6 · T/h
General Parameter	Total Power of Electrical Equipment · ≤43 · kw
General Parameter	Dimension · 7000×2200×2310 · mm

General Parameter	Structure · Mobile Combination Structure ·
General Parameter	Oil-water Ratio · 5:5 ·

Features

• of Modified Emulsion Asphalt Plant:

• Flexible in transportation

• Measurement is incredibly accurate

• Easy for operation and control

• Offering high quality and beneficial products

• Performance of Modified Emulsion Asphalt Plant:

MTR10A Modified Emulsion Equipment · MTR10A

10 t/h modified emulsion line with in-line metering and heated storage.

Model comparison — / Item / Specification / Unit

PARAMETER	MODELS
General Parameter	Model · MTR10A ·
General Parameter	Name · Modified Emulsified Asphalt Equipment ·
General Parameter	Productivity · 10 · T/h
General Parameter	Total Power od Electrical Equipment · ≤71 · kw
General Parameter	Total Power od Electrical Equipment · ≤71 · kw
General Parameter	Dimension · 11000×2200×2500 · mm
General Parameter	Structure · Mobile Combination Structure ·
General Parameter	Oil-water Ratio · 5:5~6:4 ·

Features

• We mainly offer MTR10A Modified Emulsified Asphalt Equipment for midrange servers. This equipment quality is guaranteed. It features energy conservation, easy installation and easy use

• It adopts high-power colloid mill, which makes it possible to produce modified emulsified asphalt and common emulsified asphalt at the same time

• This equipment solves the ratio problem between asphalt and liquid soap

• The structure of Emulsified thinning tank could effectively reduce the time for collocating emulgator

• Collocating tank, storage tank and matrix asphalt tank all adopt the aluminum silicate material as insulation layer and have favorable heat preservation performance. They could be heated by the built-in heat-transfer oil tube to achieve a steady temperature rising

• The valve adopts the pneumatic control system and is easy to operate

MTG15 Polymer Modified Bitumen Unit · MTG15

High-shear SBS modification skid with PLC recipe control and 15 t batch capacity.

Model comparison — Classes / Item / Parameter / Supplier

PARAMETER	MODELS
General Parameter	Productivity · ≤15T/h ·
General Parameter	Working Voltage · 380V/50HZ ·
General Parameter	Total Power of Electrical Equipment · ≤115Kw ·
General Parameter	Mixture Collocating System Dimension (Length× Width ×Height)and Weigh…
General Parameter	Control Room Dimension (Length× Width ×Height) and Weight · 3000mm×22…
General Parameter	Min. Clearance of colloid mill · 0.01mm ·
General Parameter	Asphalt-modifier ratio · 100:1~100:10 ·
General Parameter	Structure · Mobile Combination Structure ·

Features

• This advanced processing technique adopted by MTG15 Modified Asphalt Equipment is especially suitable for processing the modifiers including SBS, SBR and MAC and could thoroughly solve the asphalt segregation problem with the help of professional stabilization technique

• The high shear colloid mill is the core of SBS modified asphalt equipment and the gap between the millstones is adjustable (0.01mm-20mmm)

• The main components including bearing oil seal are all originally imported from Japan. The bearing pedestal is equipped with the water circulating cooling device. The mill body is heated by the heat transfer oil and also has an external closed thermal insulation

• The two premixing tanks could alternatively discharge and mix materials in an automatic way

• It combines human-machine interface and PLC, which makes the whole production flow displayed in visually appealing forms to realize centralized control and easy operation

• MTG15 Modified Asphalt Equipment is compatible with other devices such as asphalt tank and asphalt mixing plant

Drummed Bitumen Melter · DJT Series

Hot-oil melter and decanter that recovers drummed bitumen at 2 to 8 t/h.

KEY DATA	VALUE
Model	DJT4
Productivity (t/h) (Ambient Temperature ≥25■)	3~4
Asphalt Storage Capacity (m3)	12
Total Capacity of Electric Equipment (KW)	< 30
Total Weight (t)	16

Specifications

SPECIFICATION	VALUE
Model	DJT4
Productivity (t/h) (Ambient Temperature ≥25■)	3~4
Asphalt Temperature (■)	130-160

The Quantity of buckets loaded in one Number of drums per veh…	20
Asphalt Storage Capacity (m3)	12
Thermal Conduction Oil Boiler (KW)	470
Operating Temperature of Thermal Conduction Oil (■)	210-240
Outline Dimensions of Conduction Oil Boiler (L×W×H)(mm)	6000×2200×2500
Asphalt Pump	Model: YCB-25 Power: 7.5 KW Flow: 25m3/h
Trolley Walking Speed	10.4 m/min
Total Capacity of Electric Equipment (KW)	< 30
Total Weight (t)	16
Outline Dimension of Main Machine (L×W×H) (mm)	8200×2200×2500
Demand for Conduction Oil (L)	About 2000