

2020 CMI Portable 250 TPH Magnum Counterflow Drum Mix Plant



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250 tons per hour based on a temperature of 300° F from drum-mix discharge. Capable of up to 30% RAP. Average moisture content of 5% and including 5% bitumen in the mix.

- Portable Magnum 250 counterflow drum-mix
- Portable four (4) compartment aggregate feed system
- Portable CMI RA318 Roto-Aire Baghouse
- Portable AC storage system
- Portable 60 ton self-erect mixed material storage
- Portable PRB-120 RAP system & rolls breaker
- Portable control house / motor control system
- Impulse III Control and management system

- All equipment subject to prior sale.
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Sales:

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ID: PCFP014

250tph Portable Magnum 250 Counterflow drum-mix & burner 7' Diameter x 38' 3/8"

- Two zone; drying/mixing
- Shell construction 5/16" A514B T-1A alloy steel throughout
- Liners fitted in critical wear areas
- Lifter flights Bolt-in replaceable 1/4" steel plate
- Mixing flights - Bolt-in replaceable 1/4" A514B T-1A folded alloy steel plate
- Exhaust breaching - Fabricated in 3/16" A36 plate suitably braced with access hatch and feed opening for slinger conveyor
- Discharge breaching - Fabricated in 3/16" and 1/4" A36 plate suitably braced with burner inlet and discharge chute
- RAP Inlet chute - Top entry RAP collar inlet chute located at the beginning of the RAP zone with 1/4" A514B T-1A alloy steel liner plate.
- RAP by-pass - RAP collar inlet chute has pneumatically operated by-pass facility for calibration of the RAP feed material
- Seals - High temperature flexible seals running on bands installed on shell contact surfaces for RAP collar and breach housing
- Tires - Forged steel and machined on all faces supported on mounting blocks
- Trunnion rollers - Four (4) machined steel 17" dia x 10" wide, running on shafts mounted in pillow block bearings supported on the drum-mix chassis
- Thrust rollers - 12" dia x 2 1/2" thick mounted in pillow block bearings bolted to chassis
- Insulation - 2" thick high density mineral wool with stainless steel cladding
- Drive - Four (4) 25 hp direct drive through each independent trunnion roller
- Shielded thermocouple mounted in drum discharge chute to record mix discharge temp and display via Impulse III control system
- StarJet SJ-520 allows liquid fuels
- Cold Air Bleed Door
- Chassis & Running gear
- Slinger conveyor

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Portable RA318 Roto-Aire Baghouse

- Primary Dust – Inertial dust collector
- 48,000 ACFM secondary dust capacity
- Second state Toto-Aire reserve air cleaning type bag filter with 10,740 sq ft of filter area
- Three (3) Roto Step reverse induced air mechanisms.
- 150HP backward inclined centrifugal fan
- Air volume control – 150hp inverter automatically varies air volume through plant via transducer monitoring drum pressure
- Bag protection
- Slam Damper
- Chassis & Running gear
- Heavy & fines return auger



Portable AC Storage System

- Horizontal thermal oil heated tank – 30,000 gallon
- Insulation & cladding with 4" high density mineral wool and stucco embossed aluminum cladding
- AC Supply system with 200 GPM and 15HP drive
- 3" jacketed piping between metering pump and drum, along with pump supply and return piping with plus and 3-way valve to connect primary with future AC storage tanks
- 1,227,000 Btu/hr heat exchange unit with insulated heat chamber with galvanized steel cladding. 120 gpm with 150-gallon expansion tank
- Fully enclosed weatherproof control panel
- Chassis & Running Gear



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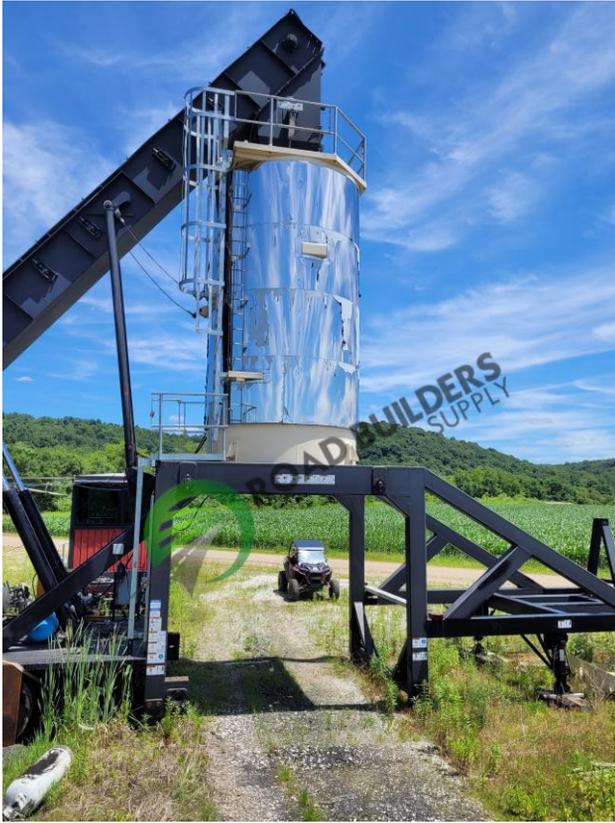
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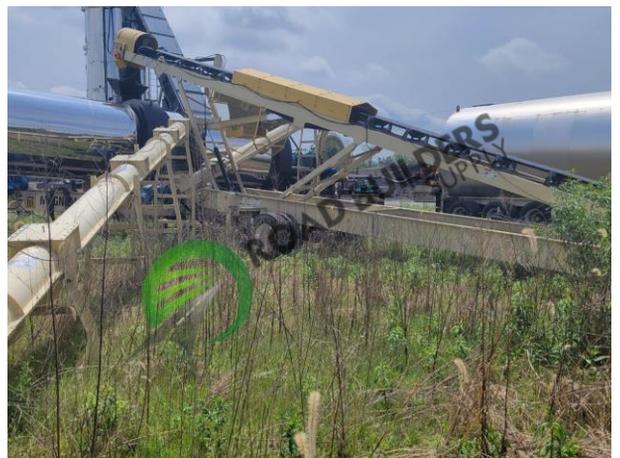
Portable 60 ton self-erect mixed material storage

- Total enclosed drag slat, fitted to mixed material storage silo with pivot mounted portable support structure.
- Mixed material batcher assembly
- 60 ton mixed material storage silo
- Hydraulic erect
- Compressor and Pneumatics
- Chassis and running gear



Portable PRB-120 Rap Feed System & Rolls Breaker

- One (1) compartment steep sided hopper unit with 20 ton heaped capacity and loading width of 14'
- Rap inclined belt feed with variable speed belt
- 300TPH capacity
- Rap rolls breaker – 18" x 24" long tandem rolls breaker to direct material onto RAP weigh conveyor
- Rap weight feed conveyor
- Hydraulic Erect actuated via manual lever valves provide erecting of the conveyor to desired height.
- Chassis and running gear



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Portable control house / motor control center

- 24' long x 10' wide
- Constructed from rolled steel section, steel panels fitted between rolled steel sections with plastic coated exterior finish.
- Two (2) zonal heating and air condition units
- Motor Controls located in MCC room
- Impulse III control and management system
User friendly Plant Control and Management SCADA control system on Windows operating system
- Loadout system – silo load out PC based control system comprising of: Standard tower PC Windows 7 professional, 3.2 ghz processor, (1) x 22" flat monitor, AC I/O enclosure, input and output couplers, screw type terminal connections and interface with MicroController module. Cardinal 205 digital weight indicator. Model 1182 DWI interface module , OKI Microline 320 turbo printer system



Portable four (4) compartment aggregate feed system

- 20 ton heaped hoppers with a loading width of 13'
- Removable guards installed on non-feed side and each end of hopper structure to 7' above grade
- Four (4) variable speed belt feeds, each with 240tph capacity
- 30" wide mounted gathering conveyor under feeders with head section to weigh feed conveyor scalping screen.
- Scaling screen. 3' wide x 6' long single deck
- Aggregate weight feed conveyor
- Hopper dividers
- 8' steel bulkhead on one side for customer constructed loader ramp
- Chassis and running gear



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Motor List

Item	Quantity	Motor	Starter	hp	Total hp
1.	4	Feeder motors	Inverter	5	20
2.	1	Vibrator DOL	0.75	0.75	
3.	1	Gathering conveyer	DOL	10	10
4.	1	Scalping screen	DOL	3	3
5.	1	Weigh feed conveyer	DOL	10	10
6.	1	Slinger conveyer	DOL fwd./rev	5	5
7.	4	Drum-mix Soft start	25	100	
8.	1	AC pump Inverter	15	15	
9.	1	Fines inject auger	DOL	5	5
10.	1	Burner blower	Inverter	100	100
11.	1	Fuel pump DOL	1.5	1.5	
12.	3	Roto-Step DOL	0.5	1.5	
13.	2	Trough hopper augers	DOL	7.5	15
14.	1	Cross auger	DOL	5	5
15.	1	Exhaust fan	Inverter	150	150
16.	2	Fines return auger	DOL	10	10
17.	1	AC unload pump	DOL Fwd./rev	15	15
18.	1	Heat exchanger	DOL	0.75	0.75
19.	1	Circulating pump	DOL	5	5
20.	1	Drag slat conveyer	DOL	50	50
21.	1	RAP feeder vibrator	DOL	0.75	0.75
22.	1	RAP feeder motor	Inverter	5	5
23.	1	RAP rolls breaker	DOL	30	30
24.	1	RAP weigh conveyer	DOL	7.5	7.5

Total 565.75 hp

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