FOAR Mobile Pugmill Plant MPP - 320T (Towable)

Produces 320 Tons/Hour of Sub Base Material

A FOAR Mobile Pugmill Plant at a Client's Project Site

FOAR's mobile pugmill plant model MPP - 320T is a self contained towable equipment built on chassis powered by 125 kVA generator set that is also mounted on this chassis. The plant is designed to produce quality mix of sub base material in large quantities to improve quality and production rate of sub base material at site. The pugmill plant is towable and made mobile when it is connected to a prime mover.

Primary Hopper with Belt Feeder

The primary hopper has a 7 m^3 capacity (approx.) with a top opening of 3.6 m × 1.8 m approx. The hopper is constructed of 6 mm thick A-36 steel. The primary belt feeder is positioned underneath the feed hopper. The belt feeder is powered with a 7.5 kW variable speed electric drive. The feeder has a belt width of 750 mm and is 3.5 m long. Belt feeder has a belt scale measuring weight of material conveyed by feeder in a given time.

Secondary Hopper with Belt Feeder

The secondary hopper has a 5 m^3 capacity (approx.) with a top opening of 3.6 m × 1.8 m approx. The hopper is constructed of 6 mm thick A-36 steel. The secondary belt feeder is positioned underneath the feed hopper. The belt feeder is powered with a 4 kW variable speed electric drive. The feeder has a belt width of 750 mm and is 3.3 m long. Belt feeder has a belt scale measuring weight of material conveyed by feeder in a given time.

Feed Conveyor

The feed conveyor transfers material from the feed hoppers to the pugmill mixing box. It has a heavy duty channel-type frame, and is powered with a 7.5 kW electric head end geared drive. The conveyor is 9 m long and 750 mm wide.

Pugmill Mixer

The twin shaft pugmill mixer consists of an enclosed (1.2 m × 1.8 m approx.) mixing box with abrasion resistant liners. Enclosed in the mixing box are two heavy duty 150 mm Ø counter rotating shafts. These shafts include 40 double tip paddles in an overlapping spiral arrangement. Paddle tips have an adjustable wall clearance range of 20 to 50 mm.

Power is transferred to the rotating shafts from a 45 kW electric motor through a v-belt drive. The reducer drives a first shaft which in turn powers the second shaft through a set of timing gears that rotate in an oil bath.

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FOAR MPP - 320T (continued)

Chassis
The pugmill plant's portable chassis consists of a heavy duty channel-style frame with a gooseneck and kingpin located at the feed end of the plant. The chassis utilizes a beam-type axle with dual 1,100 × 20 tires (8 total) located at the discharge end of the plant. The plant includes manual landing support.

Water System
The water system includes a 200-400 L/min pump with a 2.2 kW variable speed electric drive, flowmeter, and a valve.

Walkway
The 600 mm wide walkway gives the operator access to the pugmill mixing chamber. It consists of an operator's platform and a stairway with handrail to provide access to the platform from the ground.

Automatic Proportioning
Automatic proportioning control is a feature that utilizes feedback from a belt scale to automatically adjust the amount to water that will be combined with varying amounts of material being fed into the pugmill mixing chamber on continuous basis ensuring uniformity of output sub base material.

Physical/Operating Characteristics	
Overall length	15.6 m
Travel length; kingpin to tail	14.8 m
Travel height	4.1 m
Travel width	3.3 m
Feed height	4.1 m
Capacity	2.4 m

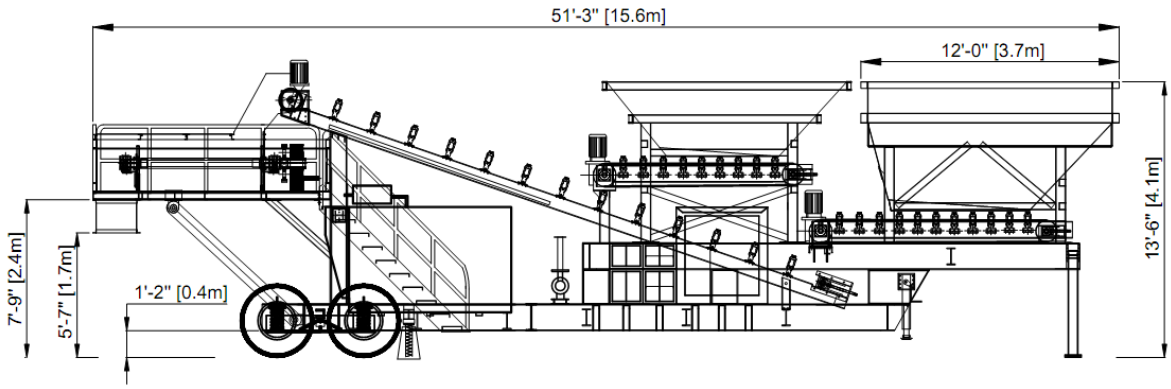
Control Panel
Controls for the pugmill plant are located on a ground accessible panel mounted to the side of the plant. Operators have start/stop capability for the plant as well as the ability to vary both the speed of the belt feeder and the rate at which water will be added into the pugmill mixing chamber. Control panel is providing switch gears, instrumentation, and wiring as per international specifications.

Backside: FOAR Mobile Pugmill Plant

Power Source
A 125 kVA diesel generator set mounted on plant chassis providing power to drives and controls.

Mixing Capacities
Dry material throughout up to 320 tons per hour

Warranty
1 year or 1500 operating hours, whichever is earlier.



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