



## **MOBILE ASPHALT PLANT (MAP – 1000)**

*PRODUCES 80 TONS/HOUR OF QUALITY ASPHALT MIX*

FOAR MAP-1000 is a highly efficient, fully computerized, mobile asphalt mixing plant capable of producing a wide range of mixes to world standards. The two units of the plant: the cold feed hopper unit and dryer/screen/mixing unit are both road towable.

### **Technical Specifications**

<b>Cold Aggregate Feed Section</b>	
Hoppers	4 Nos.
Hopper Capacity	9 m <sup>3</sup> each
Hopper Loading Width	3 m each
<i>Vibrator fitted to sand hopper</i>	

<b>Belt Feeders</b>	
Length Between Center	1500 mm
Width	500 mm
Geared Drive	4 Nos x 2.2 kW
Capacity	80 tons/hr

<b>Collecting Conveyor</b>	
Width	500 mm
Geared Drive	4 kW
Conveyor Fixed Length	12 m
Conveyor Folding Length	8 m
Total Length	20 m

<b>Aggregate Rotary Dryer</b>	
Drum Diameter	1500 mm
Drum Length	6000 mm
Geared Drive	1 Nos x 18.5 kW
Dryer Capacity	80 tons/hr
Traveling Width	2500 mm
Overall Traveling Length of Dryer/Screen/Mixer	15000 mm

<b>Air Volume</b>	
Dryer Section	12250 CFM
Mixing Section	3550 CFM
<b>Total</b>	<b>15800 CFM</b>



*FOAR'S COLD FEED UNIT*

### **Features**

- Fully mobile road towable units
- Minimum foundations
- Fast on-site erection
- High efficiency oil burner
- Electronic load cell weighing system
- Standard width conveyor belts

### **Cold Feed Unit**

Compact road towable cold feed unit consists of 4 hoppers equipped with separate belt feeder for each. Variable speed direct drive motor/gear control via inverter units give high reliability. Belt feeder delivers aggregate to collecting conveyor, which feeds it into dryer drum.

### **Aggregate Rotary Dryer**

Aggregate rotary dryer features high efficiency internal lifter design with optimized throughput of 80 tons/hr, with low noise operation through chain drive supported on 4 rollers equipped with multi-cyclone dust separator.

*LEFT: AGGREGATE ROTARY DRUM DRYER ON A FOAR MAP-1000 UNIT*



**Important Note:** Stated capacity of plant is based on 3% moisture content of feed aggregate with residual moisture content of 0.5% of mixed materials, dryer discharge temperature of 160 °C, ambient temperature 15 °C at altitude of 150 m above sea level, aggregate bulk density average 1600 kg/m<sup>3</sup>, 5.0% bitumen content, 40 seconds weigh/mix cycle at 100% plant utilization.



## FOAR MAP - 1000 (continued)

### Technical Specifications (continued)

Hot Stone Elevator	
Max. Elevator Capacity	80 tons/hr
Geared Drive	11 kW

Screen	
Grading sizes and rejects	4 Nos. + 1 Nos.
Decks	2 Nos.
Length	3 m
Width	1.5 m
Drive	9.2 kW
Max. Capacity	80 tons/hr

Hot Storage Hoppers / Bins	
Bins	4 Nos.
Capacity of Each Bin	8 tons

Weigh Hopper Capacities	
Aggregate	1000 kg
Filler	200 kg
Bitumen	200 kg

Paddle Mixer	
Twin shaft direct drive type	
max. batch capacity	1100 kg
Synchronized Geared drives	2 Nos. x 15 kW

Oil Burner	
Max output	7500 kW
Oil consumption max	750 L/hr
Turn down ratio	2.6:1
Oil Feed Pump Motor	4 kW
Blower Fan Motor	6.5 kW

FOAR's burners are suitable for diesel and heavy oil. High oil pressure causes atomization of fuel in specially designed nozzle for complete combustion. Each burner includes a modulating motor for remote adjustment of air control butterfly damper, fuel flow control valve, ignition electrodes, and auto control, etc. complete with standard safety devices.

### Screening / Weighing / Mixing Unit

Folding type assembly, two deck screen, hot aggregate bin & mixing section is compact, towable unit with integral vertical elevator,

which folds down for traveling. Heavy duty screen with fully sealed dust housing. Batch weigh hoppers for aggregate, bitumen and filler, all load cell mounted with remote control operation.



*A FOAR MAP-1000'S  
SCREENING/WEIGHING/MIXING UNIT*

### Paddle Mixer

Fully synchronized twin shaft, direct motor drive, high efficiency paddle mixer. Hard wearing abrasive resistant liner plates, paddle arms and tips. Asphalt mix discharge into truck directly.

### Operation Control System

Insulated control room with electrical power and control panels, range of control options from keypad to PC-based, fully computerized automatic system, installed in portable, purpose built air conditioned cabin.

### Optional Equipment

Bag House type dry dust Collector, Scrubber / wet dust collector, Air handling units, Bitumen Heated Storage Tanks, Silos, Fluid Heater, Bitumen Pumps, Oil Heated Asphalt Piping & Valves, Asphalt distributors, Sprayers and Asphalt transport truck etc. are included in our manufacturing program.

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