



*Quality Construction Equipment*



## ***MOBILE DRUM MIX PLANTS***

*MDM Series 20 - 60 tph*



**TUV NORD**  
★ Star Export House



## MOBILE DRUM MIX PLANTS

*With years of experience in asphalt mixing, strategic technology tie-ups and on installed base of over 1800 plants, Apollo has mastered the continuous Asphalt Mixing Technology. The world over, Drum Mix Plants, from Apollo have produced millions of tons of quality asphalt, in the bargain generating a high level of customer satisfaction, Apollo plants are renowned for quality of mix, lower operating costs, productivity, efficiency and high uptime. Now, introducing for the first time in India, the MOBILE DRUM MIX PLANT technology offering a lot more features and flexibility to our valuable customers.*



# MOBILE DRUM MIX PLANTS

## MDM Series 20 - 60 tph

### MOBILE DRYER DRUM UNIT

- A result of 40+ years experience and R & D over 1800 installations
- Filled proven mixing technology ensures higher efficiency and maximum heat transfer
- Specially designed zones and flights provide optimum mixing and productivity
- Specially treated sprockets, thrust wheels, trunion rings and trunion rollers, engineered precisely for flawless and trouble free dryer drum rotation, ensures unlimited productivity
- Swiveling load out conveyor & slinger conveyor are attached with Thermodrum Unit

### BURNER UNIT

- Fully automatic remotely controlled mono block burner unit
- Refractory devoid, low maintenance burner design
- High-Pressure burner ensures total atomization and higher fuel efficiency
- Complete system interlocks ensure conformance to high safety standards
- Various fuel options available

### CONTINUOUS ELECTRONIC BELT WEIGHING SYSTEM

Electronic load cell weighing systems are mounted on the gathering conveyor or on the slinger conveyor for continuously monitoring the aggregate feed. The feedback from the Load cell is processed by the PLC, which further automatically controls and meters the bitumen and filler proportioning.

### MOBILE COLD FEED BINS

- Steep walled, free following bins for smooth discharge of aggregates
- Modular bin-design allows for future bin additions
- Fully Automatic remotely controlled variable speed belt feeders
- Calibrated radial bin openings for better material flow adjustments
- No flow indications and complete process controls
- Bin vibrator on sand bin for smoother material flow
- Provision of sides plates to minimize civil work for building the feeding ramp

### BITUMEN INJECTION

Skid mounted high capacity hot oil jacketed gear type pump, controlled by an AC variable speed drive feeds the metered amount of bitumen into the mixing section of the Thermodrum unit. The fully automatic SCADA / PLC control ensures a precise metering of bitumen.

### LIQUID STORAGE

- Thermodrum with built in fuel tank
- Fully automatic thermostatic controlled heating system
- Mounted metering skid
- Flexible asphalt and fuel connections





## Designed for the Construction Companies on the go...

### Advantages

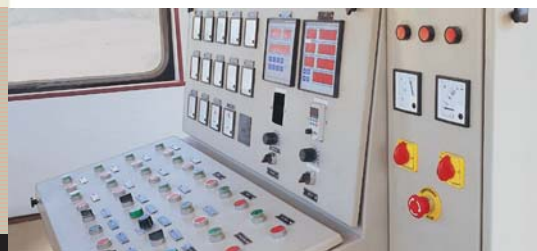
- Economy in set up - Fuel Efficiency - Portability in production offers total mobility
- Customized solutions to meet specific transportation norms
- Perfect for remote areas
- Sets up and packs up with a minimum number of loads having components transportable independently
- Completely pre-wired - Get Set and Go...
- No civil works - Massive Savings
- Optimum utilization of plant site
- Option to integrate power generating set

### POLLUTION CONTROL DEVICE (OPTIONAL)

- CV series Wet dust collector
- Extreme turbulence type venturi design
- High dust collection efficiency
- Minimum water make-up requirements
- Low maintenance design
- Large stainless steel nozzle provide clog free operation
- Adjustable venturi throat permits fine-tuning



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### CONTROLS

Fully computerized air conditioned control cabin with on board electrical power control console, distribution switch board, fully automatic process and sequence controls are a standard in all APOLLO MDM plants.

A user friendly software gives you total reliability and ensures top-notch performance.

- Fail proof power interlocks and auto process controls
- Online fault detection
- Online printing facility
- Provisions to print, store and edit production details, mix proportions, etc.
- Display of all process control parameters
- Auto / manual operation

The control is equipped with function keys and numeric keys and does not require special skills for operation.



## TECHNICAL SPECIFICATIONS

	MDM - 25 ( 20 - 30 TPH )	MDM - 35 ( 30 - 45 TPH )	MDM - 45 ( 40 - 60 TPH )
Four Bin Feeder			
No. of Bins	2. ( Divided for four types of aggregates )	4	4
Storage Capacity	20 tons	31 tons	31 tons
Auxillary Drive Motor	1.5 kW x 2 Nos.	1.5 kW x 4 Nos.	1.5 kW x 4 Nos.
Auxillary Conveyor Belt	450 mm x 2200 mm x 3 ply	450 mm x 2200 mm x 3 ply	450 mm x 2.2 mtrs x 3 ply
Gathering Drive Motor	Nil	3.73 kW	3.73 kW
Gathering Conveyor Belt	Nil	500 mm x 22500 mm x 3 ply	500 mm x 22500 mm x 3 ply
Bin Vibrator (1 No.)	0.56 kW	0.56 kW	0.56 kW
Feeding Capacity	100 tph	100 tph	100 tph
Over Size Removal Screen	Optional		
Drive Motor	0.56 kW	0.56 kW	0.56 kW
Wire Mesh	45 mm x 45 mm	45 mm x 45 mm	45 mm x 45 mm
Slinger Conveyor			
Conveyor Drive Motor	2.23 kW	3.73 kW	3.73 kW
Conveyor Belt	500 mm x 7700 mm x 3 ply (gathering conveyor)	500 mm x 13625 mm x 3 ply	500 mm x 13625 mm x 3 ply
Thermo Drum Unit			
Drive Motor	7.5 kW	11 kW	15 kW
Drive Chain Pitch	63.5 mm	63.5 mm	78. 1 mm
Main Burner Connected Power	100 lph / 5.2 kW	150 lph / 7.7 kW	250 lph / 9.7 kW
Exhauster	5000 cfm	5000 cfm	10500 cfm
Exhaust Drive Motor	5.5 kW	7.5 kW	15 kW
Multiclone Primary Dust Collector			
No. Of Cones	5	5	20
Dust Screw Drive Motor	By Gravity	By Gravity	1.1 kW
Fuel Tank			
Capacity	1500 litres	2000 litres	2000 litres
Fuel Tank Drive Motor	0.75 kW	0.75 kW	0.75 kW
Fuel Oil Pump	19.05 mm x 19.05 mm	19.05 mm x 19.05 mm	19.05 mm x 19.05 mm
L/o Conveyor Belt - HR Grade	500 mm x 11250 mm x 3 ply	500 mm x 16240 mm x 3 ply	500 mm x 16240 mm x 3 ply
Gob Hopper Capacity	350 kg	575 kg	575 kg
Hyd. Power Pack	2.23 kW	2.23 kW	3.73 kW
Bitumen Tank			
Capacity & Shape	15 tons ( U Shape )	15 tons ( U Shape )	15 tons ( U Shape )
Bitumen Drive Motor	2.23 kW	3.73 kW	3.73 kW
Bitumen Gear Box	Heavy Duty Worm Gear	Heavy Duty Worm Gear	Heavy Duty Worm Gear
Bitumen Pump ( Jacketed )	50.8 mm x 50.8 mm	50.8 mm x 50.8 mm	50.8 mm x 50.8 mm
Hot Oil Drive Motor	0.75 kW	0.75 kW	0.75 kW
Hot oil Pump	19.05 mm x 19.05 mm	19.05 mm x 19.05 mm	19.05 mm x 19.05 mm
Mineral Filler Unit ( Optional )			
Drive Motor	0.75 kW	0.75 kW	0.75 kW
Rotary Valve	203.2 mm	203.2 mm	203.2 mm
Capacity	1 m³	1.5 m³	1.5 m³
Air Compressor	5.59 kW	5.59 kW	7.5 kW
Total Connected Load	34 kW	58 kW	74 kW
Open Land Requirement	25 mtrs x 25 mtrs	30 mtrs x 30 mtrs	35 mtrs x 35 mtrs
Control Cabin	2440 mm (L) x 2235 mm (W)	36500 mm (L) x 2235 mm (W)	36500 mm (L) x 2235 mm (W)
Control Panel	AC Variable Drive	AC Variable Drive	AC Variable Drive
Electrification	Junction Box with Socket & Plug	Junction Box with Socket & Plug	Junction Box with Socket & Plug
Wiring	Pre-wired	Pre-wired	Pre-wired
Towing	Trailer Horse / Tipper	Trailer Horse	Trailer Horse
Overall Dimension ( Approx )			
Unit 1 ( Thermo Drum )	13340 mm (L) x 2700 mm (W) x 3500 mm (H)	13380 mm (L) x 2700 mm (W) x 3900 mm (H)	13380 mm (L) x 2700 mm (W) x 4060 mm (H)
Unit 2 ( B. Tank + C. Cabin )	10400 mm (L) x 2230 mm (W) x 3870 mm (H)	13400 mm (L) x 2230 mm (W) x 3870 mm (H)	13400 mm (L) x 2230 mm (W) x 3870 mm (H)
Unit 3 ( Feeder Unit )		11500 mm (L) x 2250 mm (W) x 2800 mm (H)	11500 mm (L) x 2250 mm (W) x 2800 mm (H)
Optional			
Secondary Pollution Control Unit CV Series – Wet Dust Collector		Furnace Oil Heating Arrangement	
Type : Venturi	Water Pump : 3.75 kW		
Exhauster Power : 15 kW			

With Apollo's policy of constant upgradation of products, specifications are subject to change without prior notice. Accessories shown are optional and not a part of standard supply.



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