

TECHNICAL SPECIFICATIONS

MODEL	SDM-40	SDM-60	SDM-90
Rated Output Capacity	40 to 60 TPH	60 to 90 TPH	90 to 120 TPH
COLD AGGREGATE FEEDER BINS			
No. of Bins	4	4	4
Total Storage Capacity	40 tons	48 tons	60 tons
Bin Auxiliary Conv. Belt Drive Motor	2 HP A.C. – 4 nos.	2 HP A.C. – 4 nos.	3 HP A.C. – 4 nos.
Bin Auxiliary Conveyor Belt Size	450 mm width x 3 ply	450 mm width x 3 ply	450 mm width x 3 ply
Bin Auxiliary Conveyor Gear Box	20:1 – 4 Nos.	20:1 – 4 Nos.	20:1 – 4 Nos.
Gathering Conveyor Belt Size	600 mm x 3 Ply	600 mm x 3 Ply	600 mm x 3 Ply
Gathering Conveyor Drive Motor	5.0 HP	7.5 HP	7.5 HP
Gathering Conveyor Gear Box	20 : 1	20 : 1	20 : 1
Bin Vibrator Motor	1.0 HP A.C.	1.0 HP A.C.	1.0 HP A.C.
SINGLE DECK VIBRATORY SCREEN			
Drive Motor	2.0 HP	2.0 HP	3.0 HP
Wire Mesh	40 mm	40 mm	40 mm
SLINGER (COLD) CONVEYOR			
Conveyor Drive Motor	5.0 HP	7.5 HP	7.5 HP
Conveyor Gear Box	5:1	5:1	5:1
Conveyor Belt Size	500 mm x 3 Ply	500 mm x 3 Ply	600 mm x 3 Ply
DRYING CUM MIXING (THERMODRUM) UNIT			
Thermodrum Diameter	1200 mm	1600 mm	1800 mm
Thermodrum Length	6000 mm	7000 mm	7200 mm
Thermodrum Drive Motor	20.0 HP	30.0 HP	40.0 HP
Exhaust Drive Motor	20.0 HP	30.0 HP	40.0 HP
Dust Collector Screw Motor	1.5 HP	1.5 HP	1.5 HP
LOAD OUT CONVEYOR			
Conveyor Belt Size	HR 600 mm x 3 Ply	HR 600 mm x 3 Ply	HR 600 mm x 3 Ply
Conveyor Drive Motor	5.0 HP	7.5 HP	7.5 HP
Conveyor Drive Gear Box	13 : 1	13 : 1	13 : 1
Gob Hopper Capacity	800 Kgs.	1000 Kgs.	1500 Kgs.
Hydraulic Power Pack Motor	2.0 HP	3.0 HP	3.0 HP
BITUMEN TANK			
Tank Capacity	20,000 Ltrs.	20,000 Ltrs.	20,000 Ltrs. – 2 Nos.
Bitumen Pump Drive Motor	5.0 HP	5.0 HP	5.0 HP – 1 No.
MINERAL FILLER UNIT			
Drive Motor	2.0 HP	2.0 HP	2.0 HP
Hopper Capacity	1.5 Cum	1.5 Cum	2.0 Cum
Air Blower	2.0 HP	3.0 HP	5.0 HP
FUEL STORAGE TANK			
	4000 Liters	4000 Liters	5000 Liters
TOTAL CONNECTED HP	89.0 HP	126.0 HP	170.0 HP
RECOMMENDED D.G. SET	82.5 KVA	125 KVA	200 KVA
OPEN LAND REQUIRED	35 mtrs. x 35 mtrs.	40 mtrs. x 40 mtrs.	40 mtrs. x 40 mtrs.
POWER SUPPLY	415 V, 50 Hz, 3 Phase, A.C.		

Due to continuous product development and upgradation specifications are subject to change.

COLD AGGREGATE FEED BINS

Multiple bins to handle different sizes of virgin aggregates. Bin width is compatible with loader bucket width to prevent spilling of one aggregate into an adjacent bin. Bin slope allows free flowing of aggregate without bridge forming. Proportioning of different size aggregates takes place in cold feed bins. Each cold feed bin is equipped with gate and variable speed feeder belt conveyor to control & set the amount of aggregate to be drawn from that bin. The aggregate on each feeder belt is deposited on gathering conveyor that run beneath all of the cold feed bins. Gathering conveyor transfers the aggregates collected from each feeder bin to scalping screen.



SCALPING SCREEN



It is single deck for removal of oversized material received from cold feed bins.

COLD AGGREGATE CHARGING (SLINGER) CONVEYOR

Transfers the cold aggregates to the drying cum coating rotary drum. It is troughing belt conveyor with equally spaced idler rollers, return rollers and frame fabricated for structural steel.



DRUM MIXER



It is parallel flow type rotary drum mixer where in aggregate drying takes place in primary zone and mixing of aggregates, bitumen and filler material takes place in coating zone. The burner is located at upper end (aggregate inlet end) of the drum. The aggregate enters the drum beneath the burner. The aggregates are moved down the drum by a combination of gravity and configuration of the flights inside the drum. As they travel, the aggregates are heated and the moisture is removed. Internal flight's design creates the dense veil of the aggregates which assists in heat transfer process. In the coating zone the asphalt and filler material is sprayed on the heated aggregates to produce the best hot mix asphalt. A primary multi cyclone type dust collector is placed adjacent to the discharge chamber on the same frame. The rotation to the drum is by friction drive or chain drive arrangement.

LOAD OUT CONVEYOR

The Hot Mix Asphalt from the drum mixer is deposited on the load out belt conveyor to transfer it to Gob Hopper / Storage Silo. The Gob Hopper / Storage Silo convert the continuous flow of mix material into a batch flow (to avoid segregation) for discharge into a haul vehicle.



It is insulated tank for storage of liquid asphalt and is fitted with pumping station for pumping the asphalt into coating section of the drum mixer. Pumping station consists of positive displacement type asphalt pump coupled with variable speed motor to meter the asphalt injected in the coating section. All the asphalt supply lines are hot oil jacketed to prevent the heat loss.

ASPHALT TANKS



MINERAL FILLER UNIT



It stores the filler material like lime, dust etc. and transfer the metered material to the coating section of the drum mixer. The filler material is metered by the rotary valve and variable speed motor. The filler material is conveyed pneumatically by air blower/ air compressor to the drum mixer.

WET SCRUBBER



The exhaust from the primary dust collector is forced into Wet Scrubber through a venture type narrow opening and sprayed with a fine mist of water. The heavy particles fall out and are collected into a settling pond. The remaining hot gases are released into the atmosphere.

FUEL TANK

It is service tank which stores the fuel for drum mixer and asphalt tank burners. Separate pumping unit comprising of rotary gear pump & motor pumps the fuel to the burners.

CONTROL CABIN



It is insulated fabricated from M.S. sheet, angles & channel with wooden flooring & walls. The cabin has glass windows all around, so that the operator has full view on all sides from the cabin for ease of operation and control.

CONTROL PANEL



It is fabricated from CRC sheet and powder coated with user friendly push button touch screen operating console. All the operating buttons are logically placed in a sequence for starting and stopping the plant. Separate console with feather touch buttons and digital display is provided to set the variable and other constant parameters. It is with option of Auto and Manual mode for operation and equipped with printer.