

WET MIX MACADAM PLANT - WM 100 (100 TPH) | WM 160 (160 TPH) | WM 200 (200 TPH) TECHNICAL SPECIFICATIONS

ROAD BUILDING



COLD AGGREGATE FEEDER

Stationary four bin cold aggregate feeder unit is with each bin capacity of 8 T (in WM 100), 11 T (in WM 160) and 14 T (in WM 200).

Cold aggregate feeder includes a 600 mm wide gathering conveyor belt driven by a 5 HP AC motor.

It also includes Auxiliary conveyor under each bin which are driven by 2 HP variable speed drive variable speed drive and fitted with adjustable



quadrant gates.

Gathering conveyor	600 mm x 24.0 meters
Under feeder belt	500 mm x 2.750 meters
No. of bins	Four
Each bin capacity	8.0 / 11.0 / 14.0 MT
Gathering conveyor motor	5 HP AC
Gathering conveyor reduction gear	20:1 D-Type
Auxiliary conveyor motor	2 HP Variable
Auxiliary conveyor reduction gear	20: 1 C-Type

SINGLE DECK VIBRATORY SCREEN

A single deck vibratory screen is provided between the gathering and the slinger conveyor for the removal of the oversize material.

The vibratory screen net is 65 mm size and is driven by 0.5 HP AC motor at 440 V.



SLINGER CONVEYOR

Slinger / charging conveyor is to load the aggregates into the dryer. It uses a 5HP AC motor.

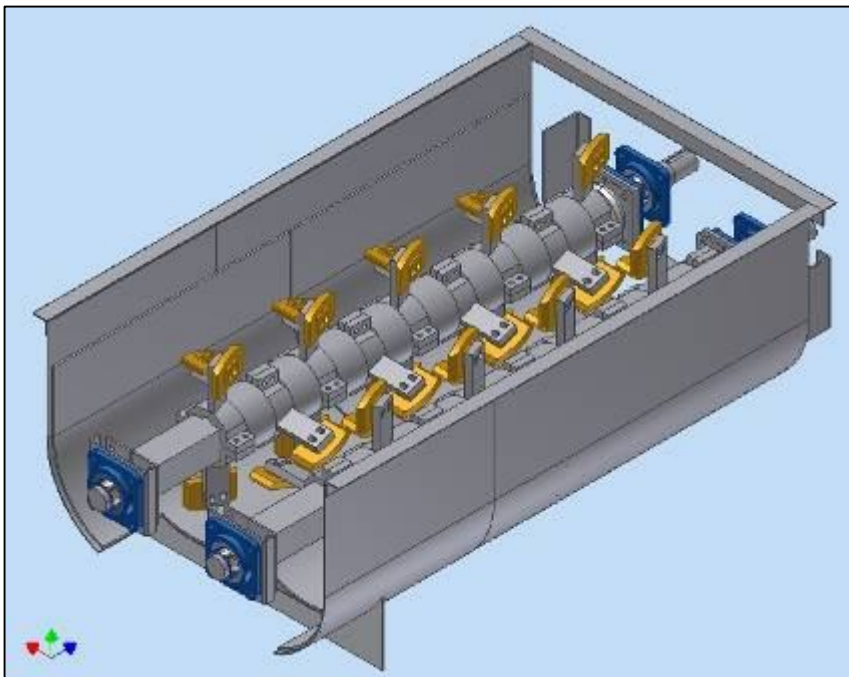
Slinger conveyor is equipped with a load cell for continuously monitoring the weight of the aggregate in tph.



Conveyor belt	600 mm x 18 meters / 600 mm x 18 meters / 600 mm x 18 meters
Slinger motor	5 HP AC / 7.5 HP AC
Reduction gear	20: 1 D- Type / 20:1 E- Type

MIXING UNIT

Mixing unit so designed to mix material with exact quantity of water content to prepare a homogenous mixture, also designed robust quality of wear resistant paddle arms for long life.



Number of arms and tips	36 / 44 / 52
Motor capacity	30 HP / 40 HP / 50 HP
Reduction gear	10:1 (8 NU) / 10:1 (8 NU) / 10:1 (9 NU)
Number of pedestals	6

LOAD OUT CONVEYOR



Truck loading will be by an inclined load out conveyor with belting equipped with a silo hopper with hydraulically operated cam shell gate to provide surge capacity when changing trucks & controls segregation in the mix.

Belt size	600 mm x 18 meters 600 mm x 32 meters 700 mm x 39 meters
Reduction gear	20: 1 D Type 20: 1 E Type 20: 1 F Type
Hydraulic power pack	3 HP / 5 HP
Conveyor	5 HP / 7.5 HP / 10 HP

WATER TANK



Stationary storage water tank capacity 10000 liters (WM 100), 12000 liters (WM 160), 15000 (WM 200).

Water tank is fitted 3 HP Kirloskar makes water pump.

Water tank capacity	10000 liters / 12000 liters / 15000 liters
Water pump	2 HP / 3 HP

CONTROL PANEL

Stationary control cabin including operator room that houses factory installed WMM plant controls & motors starters, provision to fit an Air-conditioner, window glass, lockable gates, fully prewired interior lighting.



POWER BREAK UP DETAILS FOR ATLAS INDUSTRIES WET MIX PLANT

Sr. No.	Description	Qty	Power consumption (in HP)			
			WM 100 (100 tph)	WM 160 (160 tph)	WM 200 (200 tph)	
1	<u>COLD AGGREGATE FEEDERS</u>	Auxiliary conveyor	4	8	8	8
		Gathering conveyor	1	5	5	5
		Vibrator	1	1	1	1
2	<u>VIBRATING SCREEN</u>	1	0.5	0.5	0.5	
3	<u>SLINGER CONVEYOR</u>	1	5	5	7.5	
4	<u>PUG MILL UNIT</u>	Pug mill drive	1	30	40	50
5	<u>LOAD OUT CONVEYOR</u>	Power pack	1	3	3	5
		Conveyor	1	5	7.5	10
7	<u>WATER TANK</u>	Water pump	1	2	2	3
TOTAL POWER CONSUMPTION				59.5 HP	72 HP	90 HP

NOTE: With continuous product improvement, specifications are subject to change without prior notice. Accessories shown may not be a part of standard equipment.



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