

# WILSON

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## WET MIX MACADAM PLANT

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( TWIN SHAFT PUG MILL TYPE )



MANUFACTURER  
&  
EXPORTER OF  
ROAD CONSTRUCTION  
PLANT AND EQUIPMENTS

**CAPACITIES : 60 TPH, 100 TPH, 150 TPH**

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AN ISO 9001 : 2008 COMPANY



# WILSON WET MIX MACADAM PLANT IN CAPACITIES : 60 TPH, 100 TPH, 150 TPH (TWIN SHAFT PUG MILL TYPE)

## Introduction

'WILSON' Wet Mix Macadam Plant, an application designed product built for achieving Homogeneous Mix material to prepare sub-base/base in road projects.

Wilson WMM Plant is equipped with forced / positive mixing arrangement like; Pug Mill unit, controlled addition system of water, Four Bin Feeder unit, Slinger and Load Out Conveyor, Gob Hopper, Vibrating Screen for over size removal, Operator's Cabin etc. with Load Cell for accurate weighing system and No Flow Indicator system.

## Cold Aggregate Feeder (Four Bin)

Wilson Wet Mix Macadam Plant features standard four bin aggregate feeders mounted on a single frame. The hopper design has been accurately calculated to allow constant discharge of aggregate without bridge formation and plugging.



The bin meant for macros (small size aggregate) is fitted with a vibrator to ensure continuous discharge of the aggregate. Adjustable opening gates with variable speed auxiliary conveyors are fitted there by meeting the requirements of any recipes. There is a provision to vary total capacity of plant output without disturbing the preset recipes by means of master control.

Aggregate from all the bins are discharged on to the gathering belt fitted beneath on the same chassis to be fed into the single deck-vibrating screen for removal of over size aggregate. Appropriate continuous electronic weighing system with load cell is mounted for weighing the aggregates fed into the pug mill and to synchronize the total plant operations.

## Pug Mill



The pug mill is fabricated from heavy duty MS plate. Inter lock is provided between pug mill and conveyor drive to start and stop simultaneously. The pug mill unit consists of wear and tear resistance liner with Square Shaft and Paddle Arm and Tips, Gear Set, Motor & Bearing suitable to produce required mix. The pedal arms are made of special grade steel and tips of NI hard casting which is easy replaceable. The pug mill is so designed to ensure continuous outflow of homogenous mix to load out conveyor.

## Anti Segregation Gob Hopper

The Gob Hopper arrangement allows discharge into tipper with out settle down and slippage. These will be provided with adequate capacity clamp with gates hydraulically operated for quick opening and closing without causing segregation of mix.





## Slinger Conveyor

A separate removable high-speed slinger conveyor is provided to transfer the aggregates received from the vibratory screen to feed it into the pug mill for homogeneous mix.



## Control Panel

The Housing of the control panel is fabricated from CRC sheet. The panel has features like Master Control, Water Flow Control, Aggregate Flow Measurement System which are synchronized to deliver mix materials as per the job mix formula.



## Optional

Water Storage (Tank) and Storage Silo are optional item.



SINCE OUR POLICY IS CONSTANT DEVELOPMENT TO IMPROVE QUALITY, WE RESERVE THE RIGHT OF MODIFICATION WITHOUT PRIOR NOTICE AND WITHOUT ANY BINDING ON FOR SUCH MODIFICATION ON THE EQUIPMENT ALREADY SUPPLIED.

# Technical Specification of Wet Mix Macadam Plant ( Twin Shaft Pug Mill Type ) With Computerised Control Panel

MODEL	WMM-60	WMM-100	WMM-150
<b>Capacity</b>	60 TPH	100 TPH	150 TPH
<b>FOUR BIN FEEDER</b>			
No. Of Bins	4	4	4
Storage Capacity	40 tons	54 tons	65 tons
Loading Width	2.76M	2.76M	3.66 M
Auxiliary Drive Motor	1.5 KW x 4 Nos.	1.5 KW x 4 Nos.	1.5 KW x 4 Nos.
Auxiliary Conveyor Belt	450 mm x 2.3 mtrs.x 4 ply	450 mm x 2.3 mtrs.x 4 ply	450 mm x 2.3 mtrs.x 4 ply
Auxiliary Conveyor Gear Box	SMSR x 4 Nos.	SMSR x 4 Nos.	SMSR x 4 Nos.
Gathering Drive Motor	3.75 KW	3.75 KW	5.62 KW
Gathering Gear Box	SMSR	SMSR	SMSR
Gathering Conveyor Belt	600 mm x 21 mtrs.x 4 ply	600 mm x 21 mtrs.x 4 ply	600 mm x 21 mtrs.x 4 ply
Bin Vibrator (1 No.)	0.75 KW	0.75 KW	0.75 KW
Out Put	60 tph	100 tph	150 tph
Overall Dimension (Approx.)	12.10 mtrs x 2.40 mtrs x 2.6 mtrs	12.10 mtrs x 2.40 mtrs x 2.6 mtrs	12.10 mtrs x 2.40 mtrs x 3.1 mtrs
<b>VIBRATING SCREEN</b>			
Screening Area	11 m <sup>2</sup>	11 m <sup>2</sup>	11 m <sup>2</sup>
Connected Load	2.2 KW	2.2 KW	2.2 KW
<b>OVER SIZE REMOVAL SCREEN</b>			
Drive Motor	0.75 KW x 950 rpm	0.75 KW x 950 rpm	0.75 KW x 950 rpm
Wire Mesh	53 mm x 53 mm	53 mm x 53 mm	53 mm x 53 mm
<b>SLINGER CONVEYOR</b>			
Conveyor Drive Motor	3.75 KW	3.75 KW	5.62 KW
Conveyor Drive Gear Box	SMSR	SMSR	SMSR
Conveyor Belt	500 mm x 15 mtrs x 4 ply	500 mm x 15 mtrs x 4 ply	600 mm x 18 mtrs x 4 ply
<b>PUG MILL (TWIN SHAFT TYPE)</b>			
No.of Arms	20	26	32
Drive Motor	15.00 KW	15.00 KW	18.75 KW
Drive Gear Box	Heavy Duty Worm gear	Heavy Duty Worm gear	Heavy Duty Worm gear
Drive Gear Teeth	54 & 27	54 & 27	54 & 27
Capacity	1.38 Cu.m.	1.62 Cu.m.	1.90 Cu.m
Load out Conveyor Belt Drive Motor	3.75 KW	5.62 KW	5.62 KW
Load out Conveyor Belt HR Grade	500 mm x 17.8 mtrs x 4 ply	500 mm x 17.8 mtrs x 4 ply	600 mm x 20 mtrs x 4 ply
Gob Hopper Capacity	1.2 ton	1.2 ton	1.5 ton
Hyd. Power Pack	2.25 KW	2.25 KW	3.75 KW
Water Pump	2.25 KW	2.25 KW	3.75 KW
Total Connected Load	40.45 KW	42.32 KW	52.81 KW
Open Land Requirement	35 mtrs x 20 mtrs	35 mtrs x 20 mtrs	40 mtrs x 22 mtrs
DG Set (Not Our Scope)			
Recommended Capacity	70 KVA	82.5 KVA	125 KVA
Mix Storage Silo(Optional)	Capacity	10/15/25/50 MT	
Water Tank(Optional)	Capacity	12/20 MT	

**WE ALSO DESIGN AND MANUFACTURE CUSTOMIZED PLANT AS PER REQUIREMENT.**

\* Due to continuous improvement being made from time to time, all the specifications, motor ratings, design are subject to change without prior notice.

\* The output indicated are subject to vary according climatic and operational conditions.



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