

Wet Mix Macadam Plant

AN ISO 9001 : 2008 CERTIFIED COMPANY



use the
machinery of
VINAYAK
making the
way to **success**

WMM Series : 120 to 350 tph
(Stationary Type)



INTRODUCTION AND APPLICATION :

"VINAYAK" Wet Mix Macadam Plant is an application designed product built as per M.O.S.T. specifications for achieving homogeneous mix material of WMM / C.T.A.B. / G.S.B. layer to prepare sub-base / base in road projects.

"VINAYAK" has rich experience in the field of civil construction machineries in road construction coupled with world best technology, guarantee, reliability and productivity. In addition, our stringent quality control checks and wear tests ensure higher quality for all "VINAYAK" machineries.

SALIENT FEATURES :

"VINAYAK" WMM Plant has several outstanding technical features which make them the right choice for construction work.

"VINAYAK" Pugmill unit is lined on the inside with 10mm Ni-hard (Nickel Hard) replaceable tiles as against normal M.S. liner plate of 5mm thickness used by other manufacturers. These liners are for inner shell & side plate. As a result of this minimum wearing occurs resulting in longer life of the pugmill as compared to other manufacturers.

"VINAYAK" pugmill arm & tips are of heavy duty design (inspired by German design) to achieve homogeneous mix especially the Ni-hard tips of size 264mmx134mmx32mm thick as against small size of other manufacturers. As a result of this minimal wear & tear occurs, which in turn leads to Economical Operational Cost of the plant.

"VINAYAK" pugmill is designed to take overload of 20% in continuous operation without affecting the quality of mix.

Due to low power requirement in "VINAYAK" plant against higher power consumption of other manufacturers there will be substantial saving in consumption of diesel in D.G Set; reflecting power efficient design.

All Conveyor structures of "VINAYAK" plant are fabricated from heavy duty structure with adequate cross strengthening as against single channel provided by other manufacturers.

The volume of "VINAYAK" pugmill is comparatively higher than other manufacturers resulting in better mix and fluent discharge of mix material.

"VINAYAK" provides all important inputs like; Electric Motor, Gear Box Bearing etc. of standard and approved make, as against local make inputs provided by other manufacturers.



COLD FEED BINS

The bins are all welded and modular in construction, permitting easy addition of bins to meet growing needs. Steep bin walls and valley angles allow free flow of aggregates from the feeders minimizing hang up of materials in the corners and bridging with sticky aggregates. The bins are equipped with adjustable gates. The belt feeders can have either fixed or variable speed drives. The optional variable speed drive coupled with total and proportional accuracy of operation.

- Electronic Weightment System with Load Cell having weighing accuracy $\pm 0.5\%$ for aggregate
- An Electronic Water Flow meter with Sensor unit having accuracy of ± 2 litre
- A Monoblock Water Pump

PUG MILL UNIT

The twin shaft pug mill design provides fast, continuous and homogeneous mixing of aggregates and additives. The shafts are mounted on extra heavy duty anti-friction bearings for smooth function and extended life. The wear resistant alloy steel selection for paddle arm and tips ensures a long life. The reversible paddle arm tips lower maintenance costs. The liner plants are corrosion and abrasion resistant.

WATER TANK & METERING

The water tank has adequate surge capacity, a self-priming pump, control valve and spray bar with water flow meter for accurate metering. A cleaning arrangement with flexible piping is a thoughtful add on.



ANTI SEGREGATION SURGE HOPPER

The Surg Hopper Arrangement allows discharge into trucks without shut down and spillage. Fast acting hydraulically operated clamshell gates open across the entire width of the hopper, preventing of the mix.

CONTROLS AND AUTOMATION

The Weather protected cabin houses the user-friendly controls that are specifically designed for industrial installations. The logically laid out control panel ensures sequential operation of the various drives and precise process control.

STORAGE SILO

The 10/25 MT storage silo (optional in some models) is rigid, easy to erect and transfer. Fast opening hydraulically operated clamshell gates facilitate quick discharge of mix material into the trucks without segregation.

OPTIONAL :

- Storage silo with load out belt conveyor
- Cement stabilization system (C.T.A.B.) system
- Single deck over size vibrating screen
- Water tank
- Printout system

Salient Features

- Available in 120/160/200/250/300/350 TPH Capacity.
- Modern Wet Mix Technology.
- Designed For Domestic / International Market.
- Modular Design For Containerized Transport.
- Portable or Stationary.
- Easy To Operate.
- Highly Accurate Aggregate Feeders.
- Fully Automatic Computerised Control Panel Board with Printout System.
- Electronic Weighment System with Load Cell.
- An Electronic Water Flow Meter with Sensor Unit.
- A Monoblock Water Pump.

Optionals

- Vibrating Screen 1.1M3
- Water Tank 10,000 / 15,000 Lit capacity
- C.T.A.B System
- Storage Silo with Load out Conveyor

Technical Specification

PARAMETERS	UNIT	WMM 120	WMM 160	WMM 200	WMM 250	WMM 300	WMM 350
Output Capacity	TPH	120	160	200	250	300	350
Four Been Feeder							
Capacity	Cum.	30	36	36	48	48	48
Loading Width	Mtr.	2.5	3	3	3	3.2	3.2
Auxiliary Conveyor	mm/hp	550/2	550/2	550/2	550/3	550/3	550/3
Collecting Chonveyor	mm/hp	600/7.5	600/7.5	750/10	750/10	800/12.5	800/12.5
Vibrator for fine Agg. Bin	hp	1	1	1	1	1	1
Pug Mill (Mixer)							
Capacity	Cum.	1.6	1.6	2	2.75	2.75	2.75
No. of Arms Pair	Nos.	9(18)	11(22)	13(26)	15(30)	17(34)	17(34)
Connected Load	HP	20	25	30	40	50	60
Water Pump	HP	2	2	3	3	5	5
Hydraulic Power Pack	HP	3	3	3	3	5	5
Gob Hopper	Kgs.	2000	2000	2000	2000	NA	NA
Load out Conveyor 11 mtr Long	MM/HP	600/7.5	600/7.5	750/12.5	750/12.5	900/15	900/15
Storage Silo (Optional)	Ton	25	25	25	30	30/50	30/50
Load out Conveyor 18.3 mtr Long	MM/HP	600/7.5	600/7.5	750/12.5	750/12.5	900/15	900/15
Vibrating Screen (Optional)	HP	2	2	3	3	5	5
Slinger Conveyor (Optional)	HP	600/7.5	600/7.5	750/10	750/10	800/12.5	800/12.5
Total Connected Load	HP	49	54	67.5	81.5	100.5	110.5



Quality Assurance

We believe that client satisfaction comes from products that perform efficiently and reliably with least down time. We have adopted stringent quality assurance checks for every product, starting with the raw material. Our workforce is self motivated with every employee considering himself to be a Quality Inspector.

Design & Engineering

We our products are designed from basic principles. Past experience, field feed-back, innovation and application form important parameters in the design of our products.

After-sales-service

We offer you not only prompt and effective service, but also the complete range of original spares to help prevent any down time and consequent production and profit losses. We have earned an enviable reputation throughout the country for the excellence of our sales and service.

Unit Exported To More Than 30 Countries Worldwide

We have exported number of units to various countries, Repeat export orders speak of our quality & commitment towards customer satisfaction.



AFGHANISTAN



ALGERIA



MALDIVES



BHUTAN



DJIBOUTI



ECUADOR



GUYANA



GHANA



IRAQ



KENYA



MALAWI



MOZAMBIQUE



NIGERIA



NEPAL



OMAN



SIERRA LEONE



QATAR



UAE



SRI LANKA



YEMEN

VINAYAK'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.

VINAYAK CONSTRUCTION EQUIPMENTS

Regd. Office :

Plot # 5, Rudra Industrial Estate,
B/h. Rudra Sensor, In Panchratna Estate,
Ramol, Vatva, Ahmedabad - 382 445. Gujarat, INDIA.

☎ : +91 - 98259 30770

☎ : +91 - 98794 30770

✉ : sales@vinayakequipments.com

🌐 : www.vinayakequipments.com

📘 : www.facebook.com/vinayakequipments

VINAYAK[®]
CONSTRUCTION EQUIPMENTS

**MADE IN INDIA
FOR THE WORLD**

