

 ISO 9001 : 2015
 Certified

Crushing & Screening Solution
Stone Engineering
Construction Solution
Road & Bridge Solution

HOT MIX PLANT

**QUALITY
CONSCIOUSNESS
AND
INNOVATION**

About Plant

Nexus Hot Mix Plant

Nexus Mix plant, more popularly known as Hot Mix Plant in India, is our forte.

we are the masters of continuous Nexus mixing technology.

Throughout India and overseas, contractors are using our Nexus drum mix plants to produce millions of tons of quality asphalt. Our plants are known for quality of mix, lower operating costs, higher productivity & unmatched efficiency.

Our plants boast high up-time – because we believe that the “plant” is a “plant” as long as its working, else it is just a huge pile of junk metal. In some parts of India people also refer to Hot Mix plant as “damar plant” or “luk plant”.

They are thoroughly inspected and tested for quality and reliability by experienced engineers, faithfully uncompromising on quality. The checks begin with the incoming material and components and end only when the finished product is tested and dispatched. We are committed to provide inspired services of the highest achievable standards for absolute satisfaction of our valued customers in terms of sales and service.

Why Choose Us

Our Nexus crushing and screening equipment is engineered for maximum productivity. We offer advanced, proven solutions for any size-reduction and classification challenges. Anywhere on this earth we can provide superior service as we have tie-ups with well local established mechanical industries. Our application expertise can cover Greenfield, expansion and individual or multi-equipment replacement projects. We also supply key components, and a wide range of crushing and screening consumables. We are Solution provider so we can go to any level to satisfy our customer with the most cost effective way, All over the world Nexus is the only organization which gives solution of highly modular setup and at the most economic way for our clients.

Our asphalt plants built to stringent International and Indian standards have found acceptance and acclaim by all users.

Features of Our Plant

- Fully automatic, remote-controlled burner units are fuel efficient and easy to operate
- Complete automatic process control with system interlocks ensures conformance to safety standards
- Unique flight design ensures a uniform veil of virgin aggregate across the entire drum, total heat transfer, thorough mixing and coating and prevention of bitumen oxidation
- Fully computerized controls utilize on-board electric control console, distribution switchboard and automatic process and sequence controls
- Unlike most competitors, our plants come with complete cable set* for the plant and an AC for the control cabin
- No need for a dugout under the load-out conveyor

ADVANTAGES

- All components used are of top quality.
- Moving and electrical parts are provided with safety covers.
- Ease of lubrication and dismantling has been built into the design for efficient maintenance and repair.
- Fabricated parts are thoroughly cleaned and treated before painting.
- Manufacturing is done with advanced, internationally recognized techniques.



A TRADITION
OF ENGINEERING
EXCELLENCE

HOT MIX PLANT

About Components

DRYER DRUM

The dryer is accurately fabricated to ensure proper heating of aggregates with minimum heat loss. It is supported on steel rollers through steel tyres with idlers and guide rollers and is provided with segmented driving sprocket.

FOUR BIN FEEDER

It is of single chassis construction. At each Bin, a radial gate is provided which can be opened in any position to regulate the aggregate flow. Individual endless belts fitted with variable speed motors discharges material onto the gathering conveyor as per the mix design.

CONTROLS

A fully automatic control panel with feather touch controls are provided for controlling the quantity and quality of production with operator sitting in air-conditioned comfort. All systems are completely synchronized with automatic / manual control of burners, load cell, mix temperature, cold feed, mineral, bitumen proportions, etc. Manual control is possible through over-ride system. Adequate safety measures are adopted to avoid overloading, short-circuit, etc.

VIBRATORY SCREEN

A single-deck vibratory screen is provided to remove oversize aggregate received from the four bin feeder.

MULTICYCLONE EXHAUST

The dust collection system consists of enclosed multiple cyclones, exhaust fan and chimney.

DRYER BURNER

A fully automatic, high pressure, auto jet burner is mounted at one end of the drum.



CONVEYORS

A slinger conveyor is provided which receives aggregate from the four bin feeder and feeds it to the dryer drum. Load out conveyor fitted with hydraulically operated hopper is provided at the discharge end of the dryer drum which feeds the hot mix material into tipper.

FILLER UNIT

Fabricated from steel plates, it feeds the required quantity of mineral to the dryer drum.

FLIGHT DESIGN

The drying and mixing unit of the plant demands complex flight design. Specially designed flights lift and cascade the aggregate to reduce the final moisture content to 0.5% (by weight).

ASPHALT (BITUMEN) TANK

Tank of 15/20 MT capacity is provided, fabricated from steel plates with 50 mm glass - wool insulation, manhole, thermocouples, etc. Bitumen is pumped to the dryer drum through hot oil jacketed pipelines. Tanks are fitted with independent on-off type burners.

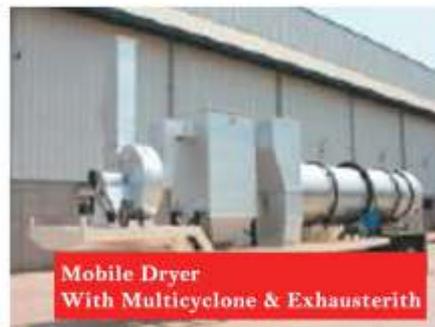
FUEL TANK

One Tank of 2500 / 5000 / 10000 Ltrs. capacity is provided with each plant.

HOT MIX PLANT

Technical Specifications

| MODEL | DM-30 | DM-45 | DM-60 | DM-90 | DM-120 | DM-150 |
|-------------------------------|-------|----------|----------|----------|-----------|------------|
| CAPACITY RANGE(TPH)* | 30-35 | 35 to 45 | 45 to 60 | 60 to 90 | 90 to 120 | 120 to 150 |
| DRYER | | | | | | |
| Length(m) | 5 | 6.2 | 6.2 | 6.75 | 6.75 | 85 |
| Diameter(m) | 1.00 | 1.13 | 1.22 | 1.5 | 1.82 | 2.1 |
| Exhauster(CFM) | 6500 | 7500 | 10500 | 14500 | 18500 | 22500 |
| Burner Rating(Ltrs./Hr.) | 150 | 150 | 250 | 350 | 550 | 900 |
| BIN FEEDER | | | | | | |
| No. of Bins | 4 | 4 | 4 | 4 | 4 | 4 |
| Bin Capacity (MT) | 8 | 8 | 11 | 11 | 13 | 13 |
| Belt Feeder Width (mm) | 500 | 500 | 500 | 500 | 500 | 500 |
| Gathering Conveyor Width(mm) | 600 | 600 | 600 | 600 | 00 | 600 |
| SLINGER CONVEYOR | | | | | | |
| Conveyor Width(mm) | 600 | 600 | 600 | 600 | 600 | 600 |
| LOADOUT CONVEYOR | | | | | | |
| Conveyor Width(mm) | 600 | 600 | 600 | 600 | 600 | 600 |
| Load out Height(m) | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| Hopper Capacity(kg) | 800 | 800 | 800 | 800 | 800 | 800 |
| POWER REQUIREMENTS | | | | | | |
| Drum Drive (HP) | 15 | 15 | 20 | 30 | 40 | 60 |
| Exhauster (HP) | 10 | 15 | 20 | 25 | 50 | 75 |
| Bin Feeder Hopper (HP) | 4 x 2 | 4 x 2 | 4 x 2 | 4 x 2 | 4 x 3 | 4 x 3 |
| Gathering Conveyor (HP) | 3 | 5 | 5 | 5 | 7.5 | 7.5 |
| Slinger Conveyor (HP) | 3 | 5 | 5 | 5 | 7.5 | 7.5 |
| Vibrator Screen (HP) | 1 | 1 | 1 | 1 | 2 | 2 |
| Load out Conveyor (HP) | 3 | 5 | 5 | 5 | 7.5 | 7.5 |
| Hydraulic Power pack (HP) | 2 | 2 | 2 | 2 | 5 | 5 |
| Bitumen (Asphalt) Pump (HP) | 3 | 3 | 3 | 3 | 3 | 5 |
| Filter Unit | | | | | | |
| Rotary valve (HP) | 1.5 | 1.5 | 2 | 2 | 5 | 5 |
| Blower (HP) | 5 | 5 | 5 | 5 | 5 | 5 |
| Dryer Automatic Burner | | | | | | |
| Fuel Pump (HP) | 2 | 2 | 2 | 2 | 3 | 5 |
| Blower (HP) | 3 | 3 | 5 | 10 | 15 | 25 |
| Hot Oil Pump (HP) | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| BITUMEN TANK | | | | | | |
| Capacity (MT) | 15 | 15 | 15 | 20 | 20 | 15 x 2 |
| Insulation (Glass wool in mm) | 50 | 50 | 50 | 50 | 50 | 50 |
| FUEL TANK | | | | | | |
| Capacity (Ltrs.) | 2500 | 2500 | 5000 | 5000 | 5000 | 10000 |
| TOTAL CONNECTED LOAD | | | | | | |
| Load (KVA) | 85 | 100 | 120 | 135 | 220 | 300 |



WET MIX PLANT

About Plant

Nexus Wet Mix Plants

are manufactured with best of the components and accessories. The unique design features makes it most efficient in terms of operational costs, and ensures close control of the quality of output. Available in fixed or variable speed drives, the plant is well equipped with adjustable gates at its bins. The design of twin shaft pug mill ensures fast, continuous & homogeneous mixing of aggregates & additives. Besides, the surge hopper arrangement allows discharge into trucks without shutdown & spillage.

Nexus We Mix Macadam Plant application designed product built as per M.O.S.T Specification for achieving homogeneous mix material of WMM / C.T.A.B / G.S.B layer to prepare sub base / base in road projects.



Optionals

- Vibrating Screen 1.1M3
- Water Tank 10,000 / 15,000 Lit capacity
- C.T.A.B System
- Storage Silo with Load out Conveyor
- 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 Stationery.
- Easy To Operate.
- Highly Accurate Aggregate Feeders.
- Fully Automatic Computerized Control Panel Board.
- Electronic Weighting System with Load Cell.
- An Electronic Water Flow Meter with Sensor Unit.
- A Mono-block Water Pump.

WET MIX PLANT

Technical Specifications

| PARAMETERS | UNIT | NWMP60 | NWMP100 | NWMP150 | NWMP200 | NWMP250 |
|---|----------------|--------|---------|---------|---------|---------|
| Output Capacity | TPH | 60 | 100 | 150 | 200 | 250 |
| Four Been Feeder | | | | | | |
| Capacity | M ³ | 18 | 20 | 36 | 36 | 45 |
| Loading Width | Mt. | 3.21 | 3.21 | 3.7 | 3.7 | 3.7 |
| Auxiliary Conveyor | mm/hp | 500/2 | 500/2 | 500/3 | 500/3 | 500/3 |
| Main Conveyor | mm/hp | 600/5 | 600/5 | 600/5 | 600/5 | 750/7.5 |
| Vibrator for fine Agg. Bin | hp | 1 | 1 | 1 | 1 | 1 |
| Connected Load | hp | 13 | 10 | 20.5 | 20.5 | 20.5 |
| Charging Conveyor | mm/hp | 600/5 | 600/5 | 600/7.5 | 600/7.5 | 750/10 |
| Pug Mill (Mixer) | | | | | | |
| Capacity | M ³ | 15 | 1.00 | 2 | 2.75 | 2.75 |
| No. Arms Pair | Pair | 11(22) | 9(18) | 18(36) | 22(44) | 22(44) |
| Connected Load | hp | 20 | 18 | 30 | 40 | 50 |
| Water Pump | hp | 1 | 2 | 3 | 3 | 3 |
| Hydraulic Power Pack | hp | 2 | 3 | 5 | 5 | 5 |
| Gob Hopper without Load out Conveyor | Ton | .75' | 1' | 1' | 1' | 1' |
| Gob Hopper with Load out Conveyor | Ton | .75' | 1' | 1' | 1' | 1' |
| Load out Belt Conveyor | mm | 600 | 600 | 600 | 600 | 750 |
| Connected Load | hp | 5 | 5 | 5 | 5 | 7.5 |
| Storage Silo | MT | 10 | 20 | 25 | 25 | 25 |
| Load out Conveyor | mm | 600 | 600 | 800 | 800 | 800 |
| Connected Load | hp | 5 | 7.5 | 15 | 15 | 15 |
| Total Connection Load | hp | 45 | 46.5 | 84 | 95 | 106.5 |

*Optional: With policy of constant up gradation of products, design & specifications are subject to change without prior notice.

| PARAMETERS | UNIT | NWMP60 | NWMP100 | NWMP150 | NWMP200 | NWMP250 |
|-------------------------|----------------|--------|---------|---------|---------|---------|
| Vibrating Screen | | | | | | |
| Screening Area | M ³ | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| Connected Load | hp | 3 | 3 | 3 | 3 | 3 |
| Water Tank | Ltr. | 5,000 | 10,000 | 15,000 | 15000 | 15000 |



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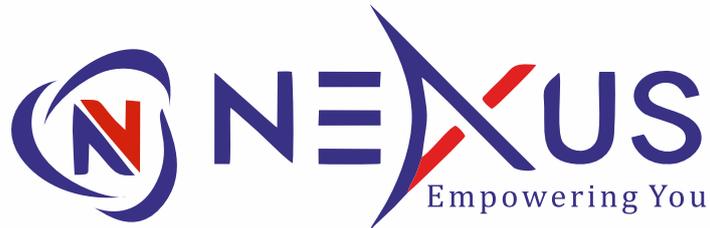
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