

Asphalt Drum Mix Plant

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KEW Series 30-150 Tph



KAUSHIK[®]
ENGINEERING WORKS

THERMO DRUM UNIT

The Drying and Mixing unit of the asphalt plant demands complex flight design and heat transfer technology. With our passion to build the best machines, continuous R & D and incorporation of the latest design up-gradations, KEW thermodrum is way ahead of competition.

The KEW thermodrom unit follows a triple heat transfer system that ensures a total transfer of heat to the aggregates, translating into higher productivity and lower fuel consumption. The heat is transferred to the aggregates using the conductive, connective and radiation techniques.

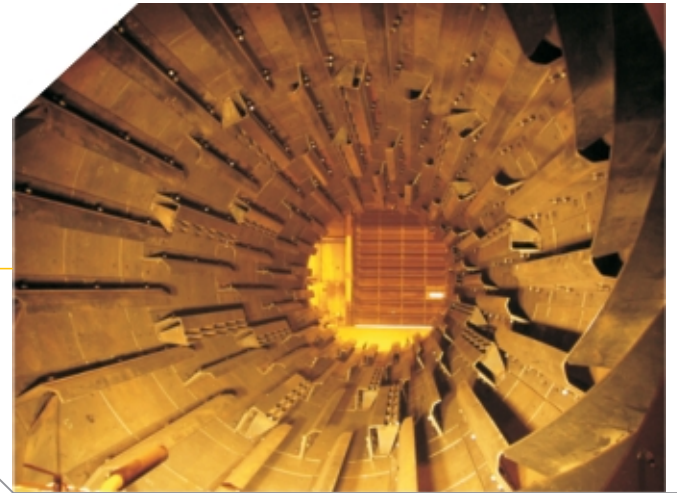
The field proven unique flight design ensures total heat transfer, a thorough mixing & coating, lower emissions and prevention of bitumen oxidation.

(Asphalt Drum Mix Plant / KEW Series 30-150Tph)

DRUM MECHANICS

The 30-120Tph plants are supplied with a low maintenance cradle type drum drive. The auto lubrication system ensures proper and adequate lubrication on the chain drive thereby ensuring long life of machine with trouble free service. Optionally a four wheel friction drive, which is a standard on the 120 Tph and higher models, can be supplied.

Specially treated sprockets, thrust wheels, trunion rings & trunion rollers, engineered precisely for flawless and trouble free dryer drum rotation, ensures unlimited productivity.



COLD AGGREGATES BIN FEEDERS

The bins are all-welded and modular in construction, permitting easy addition of bins to meet growing needs. Steep bin walls and valley angels allow free flow of aggregates from the feeders minimizing hold up to materials in the corners and bridging with sticky aggregates. The bins supplied with adjustable calibrated gate openings and variable speed feeder drives, together offer total proportional control, greater flexibility and accuracy of operations.



BITUMEN HEATING & STORAGE SOLUTIONS

With Kaushik Engineering Works, customers can opt for a direct heating type or hot oil heated bitumen storage tanks. Storage capacities range from 10 tons to 50 tons.

The indirect heating tanks are supplied with a Japanese design thermic oil heater. The Direct heating tanks are supplied with automatic imported pressure jet burner.

As a standard, all KEW tanks are supplied with auto thermostatic controls, hot oil circulating systems and jacketed bitumen pump. The tanks are fully insulated to minimize the heat loss and are provided.



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BURNER

The high pressure atomized, fully automatic remotely controlled burner unit has already gained an enviable reputation for its fuel efficiency, ease of operation and high uptime. Completely automatic process controls with system interlocks ensure conformance to high safety standards.

This burner is suitable to use LDO /Diesel/FO as fuel and is fitted with remote control system to detect flame failure and have electric spark ignition system. Our unique nozzle system allows cleaning during running condition thus allowing zero downtime.

CONTROLS

Fully computerized control cabin with on board electrical power control console, distribution switch board, fully automatic process and sequence controls are a standard on our KEW series plants.

A user friendly software gives you total reliability and ensures top notch performance.

- Fail proof interlocks and auto process controls
- Online fault detection
- Online printing facility
- Provisions to print, store and edit production details, mix proportions, etc.
- Display of all process control parameters
- Automatic, semi-automatic & manual operation
- The control is equipped with function keys and numeric keys and does not require special skills for operation.





POLLUTION CONTROL DEVICES (OPTIONAL)

CV SERIES – WET DUST COLLECTORS

CV Series is a venturi type high efficiency wet dust collector that maintains the required environmental standards in specific areas. The extreme turbulence type venturi design ensures a very good entrapping of the dust laden exhaust gas. Large stainless steel spray nozzles provide a clog free operation and assure minimum water make up requirements. The adjustable venturi throat permits “fine tuning” to get optimum cleaning efficiency for the plant operating conditions.

BAG HOUSE FILTER UNIT

We have developed a state of the art free air flow type bag house filter unit especially for asphalt application with specially treated metaaramid filter elements. This zero maintenance design keeps emissions at less than 50 mg/Nm3, which meets international pollution control norms. This environment friendly unit has low operation cost & long life.

HOT MIX SILO

Kaushik Engineering Works offers a complete range of customized solutions for asphalt storage. The standard range includes MONOPAK and TWINPAK systems. MONOPAK silos are available with storage capacities from 10 to 80 Tons. The TWINPAK silos are available with storage capacities ranging from 50 to 80 Tons with an additional feature of storing different mix designs. Various storage combinations can be availed by opting for customized MULTIPAK designs. The silos are supplied with automated standard safety controls and process interlocks. The storage silos can be supplied with skip hoist arrangement, hot bucket elevators or swiveling loadout conveyors.



Technical Specifications*

Stationary type ASPHALT DRUM MIX PLANT

	KEW-45 (45-60 TPH)	KEW - 50 (60-90 TPH)	KEW-60 (90-120 TPH)	KEW-65 (90-120 TPH)
Four Bin Feeder				
No. of Bins	4	4	4	4
Storage Capacity	31MT	40 MT	54 MT	54 MT
Hopper Size (LxW)	2500mm x 2200mm	3000mm x 2200mm	3650mm x 2060mm	3650mm x 2060mm
Auxiliary Drive Motor	1.1 KW x 4 Nos	1.5 KW x 4 Nos	2.2 KW x 4 Nos	2.2 KW x 4 Nos
Auxiliary Conveyor Belt	400mm x 2.2 Mtr	450mm x 2.92 Mtr	450mm x 3.78 Mtr	450mm x 3.78 Mtr
Gathering Drive Motor	3.70 KW	3.70 KW	5.50 KW	5.50 KW
Gathering Conveyor Belt	500mm x 22.5 mtr	600mm x 25.6 mtr	600mm x 29.6 mtr	600mm x 29.6 mtr
Bin Vibrator (1 No)	0.75 KW	0.75 KW	0.75 KW	0.75 KW
Feeding Capacity	100 TPH	150 TPH	200 TPH	200 TPH
Overall Dimension (Approx)	11.6 mtrx2.55mtrx2.45 mtr	13.5 mtrx 2.55 mtrx 2.45 mtr	16.25 mtrx2.55 mtrx2.75 mtr	16.25 mtrx2.55 mtrx3.00 mtr
Total Connected Load	8.85 KW	10.45 KW	15.05 KW	15.05 KW
OVER SIZE REMOVAL SCREEN				
Drive Motor	0.75 KW	0.75 KW	0.75 KW	0.75 KW
Wire Mesh	45mm x 45mm	45mm x 45mm	45mm x 45mm	45mm x 45mm
Screening Area	800 x 1200 mm	800 x 1200 mm	900 x 1200 mm	900 x 1200 mm
SILNGER CONVEYOR				
Conveyor Drive Motor	2.20 KW	3.70 KW	3.70 KW	3.70 KW
Conveyor Belt	500mm x 15 mtr	600mm x 15 mtr	600mm x 15 mtr	600mm x 15 mtr
THERMO DRUM UNIT				
Drive Motor	11.00 KW	18.50 KW	30.00 KW	45.00 KW
Burner Connected Power	4.45 KW	6.25 KW	13.2 KW	13.2 KW
Exhauster	11500 CFM	14500 CFM	18000 CFM	21000 CFM
Diameter	1230 mm	1540 mm	1850 mm	1850 mm
Length	6000 mm	6700 mm	7310 mm	8000 mm
Burner Rating	350 LPH	550 LPH	750 LPH	1100 LPH
Exhaust Drive Motor	11.00 KW	18.50 KW	30.00 KW	45.00 KW
Multiclone Primary Dust Collector				
No. of Cones	10	15	21	21
Dust Screw Drive Motor	0.75 KW	0.75 KW	1.50 KW	1.50 KW
Fuel Tank				
Capacity	3000 ltr	5000 ltr	5000 ltr	7500 ltr
Loadout Conveyor				
Conveyor Drive Motor	3.70 KW	5.50 KW	5.50 KW	5.50 KW
Conveyor Belt HR-Grade	500 mm x 17.9 mtr	600 mm x 17.9mtr	600 mm x 20.3mtr	600 mm x 20.3mtr
Gob Hopper Capacity	550 kg	750kg	1500 kg	2000 kg
Hyd.Power Pack	1.50 KW	2.20 KW	3.70 KW	3.70 KW
Bitumen Tank (O shape Or U Shape)				
Capacity & Shapes	15 Tons	20 Tons	20 Tons	25 Tons
Bitumen Drive Motor	3.70 KW	3.70 KW	3.70 KW	3.70 KW
Bitumen Pump (Jacketed)	50 mm x 50 mm	50 mm x 50 mm	50 mm x 50 mm	50 mm x 50 mm
Hot Oil Drive Motor	0.75 KW	0.75 KW	0.75 KW	0.75 KW
Hot Oil Pump	19 mm x 19 mm	19 mm x 19 mm	19 mm x 19 mm	19 mm x 19 mm
Mineral Filler Unit				
Drive Motor	0.75 KW	0.75 KW	0.75 KW	1.5 KW
Rotary Valve	4"	4"	4"	6"
Capacity	1.5 m3	1.5 m3	1.5 m3	1.5 m3
Blower	2.2 KW	3.7 KW	5.5 KW	5.5 KW
Total Connected Load				
Recommended Capacity of Genest	100 KVA	125 KVA	182 KVA	250 KVA
Open Land Requirement	35 mtr x 35 mtr	40 mtr x 40 mtr	45 mtr x 45 mtr	50 mtr x 50 mtr
F.O.KIT(Optional)				
Outflow Heater	4.5 KW	4.5 KW	4.5 KW	4.5 KW
In-Line Heater	14.5 KW	14.5 KW	14.5 KW	14.5 KW

Secondary Pollution Control Unit (Optional)

KEW Series Wet Dust Collector

Type : Water Scrubber
 Exhauster Power : 30 KW, Water Pump : 2.2 KW
 Dust Emission : < 150 mg/ Nm3
 Overall Dimensions Without Ducts :
 3500 mm (H) X 1500 mm (L) X 1800mm (W)

Bag House Type Filter

Type : Reverse Air Flow
 Exhauster Power : 55.93 kw
 Dust Emission : < 50 mg/ Nm3
 Overall Dimensions Without Chimney :
 6600 mm (H) X 5720 mm (L) X 2100 mm (W)

Accessories (Optional)

Filler Silo	Capacity	4 / 10 / 15 / 25 / 40 Tons
Bitumen Tanks	Capacity	15 / 20 / 25 / 30 / 50 Tons
Hot Oil Heater	Heating Type	Direct / Hot Oil Heating Type
	Type	Normal Pressure Horizontal - Tubular Boiler
Hot Mix Storage Silo	Capacity	500 000 Kcal / hr.
	Capacity	25 / 50 / 25 x 2 / 80 tons

*With KEW's policy of constant up gradation of products, specifications are subject to change without prior notice.

ADDRESS: Plot 520, Road No. 14 Kathwada GIDC,
 Odhav-kathwada Road,
 Ahmedabad - 382430, Gujarat, India.
 PHONE: +91 79 22901989, 22902714, 29701311
 FAX: +91 79 22902815



EMAIL: info@kaushikengineeringworks.com

www.KaushikEngineeringWorks.com

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