

The Revolution of Equipment

KAUSHIK
ENGINEERING WORKS





Manufacture of Asphalt & Concrete Equipment

A little about us

We, Kaushik Engineering Works, are a prominent Construction Equipment Manufacturing Companies of India based in Ahmedabad (Gujarat) and also a leading exporter of Hot Mix and Wet Mix Plants.

Kaushik Engineering Works is a family owned and operated business. Continuing on a philosophy that has spanned two generations, we treat all of customers an integral part of family. At Kaushik, we just don't sell equipments, we provide solutions. We just don't make clients, we make friends.

Our commitment to offer a complete range of efficient road construction equipments has got only stronger in the decade of industry presence since our inception in 2000.

We maintain our exceptional quality of road construction equipments with zero-tolerance to error. Our products are not only adhering to the stringent National and International Standards, but are also popular in various countries of the World besides all the states in India.

We are a proud ISO 9001:2008 (TUV) certified company. The in-house testing laboratories that include sophisticated and sensitive testing equipments test the products for quality and reliability under the supervision of proficient engineers. This ensures the manufacture of peerless products and a guarantee for consistent performance.

Customer satisfaction being of prime importance, transparent operations and organizational integrity remain the values that inspire and motivate us to scale new heights.



Mobile Drum Mix Plant

KAUSHIK automatic asphalt drum mix plants, compliant to the latest M.O.R.T.H. (previously known as M.O.S.T.) specifications, are designed and engineered to give trouble-free performance with superior fuel efficiency. Our pursuance to offer our customers the best and constant up-gradation of products today showcases exceptional and unmatched product refinement in our asphalt plants.

Our MDM (Mobile) series offers customers the industry's finest & proven technical solution, latest generation process controls and automation together with total installation and site support, aimed to deliver precisely mixed quality asphalt - productively and profitably. KAUSHIK design team facilitates custom built asphalt plants to meet specific site demands and requirements. Available in capacities ranging from 20 to 150 TPH output in different models.

MDM-25 STANDARD CONFIGURATION

- One Single Chassis consisting Drying & Mixing Unit, Cold Aggregate Four Bin Feeder, Conveyors, Gob Hopper & L.D.O./Fuel Tank
- Bitumen Tank with towing system
- Fully Furnished Cabin with Electrical Control Panel on towing system



MDM-45

(with pollution control unit)

Standard Configuration

- Chassis 1 - Drying & Mixing Unit with Load out Conveyor & Gob Hopper
- Chassis 2 - Cold Aggregate Four Bin Feeder with Slinger conveyor
- Chassis 3 - Bitumen Tank, L.D.O. / Fuel Tank & Mineral Filler Unit
- Chassis 4 - Electrical Control Panel with Fully Furnished Cabin & Optional D.G. Set

MDM-50 / MDM-60 / MDM-65

(with pollution control unit)

Standard Configuration

- Chassis 1 - Drying & Mixing Unit with pollution control unit
- Chassis 2- Cold Aggregate Three / Four Bin Feeder with Slinger conveyor
- Chassis 3 - Bitumen Tank
- Chassis 4 - Electrical Control Panel inside Cabin, L.D.O. / Fuel Tank & Mineral Filler Unit

MODELO	MDM 25	MDM 45	MDM 50	MDM 60	MDM 65
CAPACIDADE	20 - 30 TPH	40 - 60 TPH	60 - 90 TPH	90 - 120 TPH	120 - 150 TPH



Asphalt Drum Mix Plant

KAUSHIK automatic Asphalt Stationary Drum Mix plants, compliant to the latest M.O.R.T.H. (previously known as M.O.S.T.) specifications, are designed and engineered to give trouble-free performance with superior fuel efficiency. Our pursuance to offer our customers the best and constant up-gradation of products; today showcases exceptional and unmatched product refinement in our asphalt plants. Available in capacities ranging from 35 to 150 TPH output in different models.

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 thermodrum 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.

DRUM MECHANICS

The 30-120 Tph 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 INJECTION

A high capacity hot oil jacketed gear type pump, controlled by an AC variable speed drive feeds the metered amount of Bitumen into the mixing section of the thermodrum unit. The fully automatic SCADA / PLC / Microprocessor control ensures a precise metering of bitumen.

CONTINUOUS ELECTRONIC BELT WEIGHING SYSTEM

The State-of-the-Art SCADA system processes and meters the mix proportioning. The feedback from the Load cell is processed by the PLC, which further automatically controls and processes the bitumen and filler proportioning.

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.



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.



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.



MODEL	KEW – 45	KEW – 50	KEW – 60	KEW – 65
CAPACITY	40 - 60 TPH	60 - 90 TPH	90 - 120 TPH	120 - 150 TPH

FILLER STORAGE UNIT

Kaushik Engineering Works offers a wide range (1.5-50 tons) of filler storage and feeding solutions for the customers to choose from, depending on the site requirements. A variable speed computerized synchronized metering system ensures the right proportioning in the mix.

OVERSIZE REMOVAL VIBRATORY SCREEN

The KEW Series asphalt plants are supplied with oversize aggregate removal vibratory screens. It is positioned at the end of cold aggregate feeder. Any oversize material, detrimental for the heating and mixing thermodrum internals, are screened out ensuring better performance and safety of the plant.



Concrete Batching Plant

Kaushik Concrete Batching Plant / Ready Mix Concrete (RMC) Plant is most versatile and efficient plant used globally. This plant is generally used for projects of Airport, Metro Rail, Concrete Road, Dam, Canal, Ready Mix Concrete Plant (RMC), Pre-cast application, Multi-storey & Industrial Building etc.

A LOW MAINTENANCE PLANT

- Engineered to perfection, Kaushik Batching Plant requires minimum maintenance, thus assuring continuous performance. Our State of the Art Designing & Manufacturing Techniques are not only efficient, but also performs in tough conditions.
- Easy installation.

DUPLO AXLE MIXER

- Robust and compact design Mixer makes it suitable for all concrete
- The technology of modern mix that ensures a quality complete homogeneous concrete with lower cycle times on the floor and filled the mixing cylinder wall are lined with resistant and replaceable wear plates with special long life and low operating cost of producing concrete high quality
- "WAM" make cement / fly ash screw conveyor and electric vibrators for sand and cement.

ADVANCE CONTROL SYSTEM

- Fully automatic PLC control system with SCADA for inventory management and different report generation. Any types of faults and errors will be diagnosed by the control system.
- Emergency manual discharge facility

OPTIONAL ACCESSORIES

- Moisture Probe System (On Sand bin & Mixer).
- Silo Accessories; dust collector, level indicator, fluidizing pad, relief valve etc. pressure Blower system for cement / fly ash silo loading.



MODEL	KEW – C30	KEW – C60	KEW – C90	KEW – C120	KEW – C180	KEW – C240
CAPACITY	30 M ³	60 M ³	90 M ³	120 M ³	180 M ³	240 M ³

Mobile Concrete Batching Plant

Kaushik Mobile Concrete Batch Mix Plant provides turnkey solution to Ready Mix Concrete batching / mixing plant. Our Central batching concrete is one of the most efficient and versatile plants which is used globally. Kaushik Central mobile batching concrete is used in construction of roads, bridges, canals, airports, industrial buildings and multi-storey and ready mix concrete plants. Our plant not only makes concrete quickly, but also maintains a high standard without separation during discharge. Our plant has a compact design and is also cost friendly. Customized to meet specific standards of transportation, low cost and high resale value made this mobile plant preferred choice of industry. We have also become a manufacturer of concrete mixing plant known and exporter in India.

STANDARD CONFIGURATION

- Four Bin System
- Load out Conveyors
- Pan Type Mixing Unit
- Discharge Conveyor
- Cement Hopper with Screw Conveyor
- High Pressure Jet Cleaner system for Mixer
- Microcontroller based Electrical Control Panel



MODEL	KEW MC 15	KEW MC20	KEW MC30
CAPACITY	15 Cu m ³	20 Cu m ³	30 Cu m ³

* Higher capacity Stationary plants are available on specific enquiry.





Bitumen Pressure Distributor

KAUSHIK Bitumen Sprayers / Bitumen Pressure Distributor comes as truck mounted, self propelled with suitable heating system and variable spray bar to operate on constant pressure system, complete with air-compressor, bitumen pump, auxiliary engine, tank mounting and other accessories for uniform and constant rate applications of hot bitumen (or cold tar).

A unique Pressure Cleaning System (PCS) cleans the system after use and avoids clogging. It is capable for use with bitumen emulsion also. Trolley mounted versions can be made available in place of Truck mounted.

SALIENT FEATURES

- Fully - Insulated Tank with High Efficiency Heating System
- Air Cooled Diesel Engine & Positive Displacement Gear Pump
- Designed to Stuff Standard Truck Chassis
- Safe & Easy in Operation
- Hand Spray System
- Unique Pressure Cleaning System
- Totally Factory Tested, Arrives Ready to Launch

BITUMEN PUMP

2" x 2", 350 Lpm, Positive Displacement Gear Pump.

AIR COMPRESSOR

Twin Cylindered, 3HP, 360 LPM Capacity With Working Pressure of 9 Kg/cm².

DRIVING UNIT

Powered By A 25HP Air Cooled Diesel Engine.

BITUMEN SPRAYING PRESSURE

0 - 6 Kg/cm², Pressurized Bitumen Spraying.

TEMPERATURE INDICATORS

0 - 300 C (Analog) Scale Located On The Tank.
Digital Temperature Indicator with speed indicator

SPRAY BAR

Standard Width: 2.4 M.
Adjustable Extension Bar For Spraying Width up to 4.2 M.
Nozzle Distance: 225mm Nozzle c/c.
Pneumatically Operated Nozzles For Spray Bar Controlling.
With Hand Torch Burner
Unique Pressure Cleaning System



MODEL	KEW 3000	KEW 4000	KEW 6000	KEW 10000
CAPACITY	3000 Ltrs	4000 Ltrs	6000 Ltrs	10000 Ltrs

* Higher capacity plants are available on specific enquiry.



Hydraulic Road Sweeper

Ideal for construction, industrial or municipal jobs, the KAUSHIK Robust sweeper is easy to attach and simple to use. This fully hydraulic sweeper can be attached to tractors, loaders or forklifts. Especially designed 100% polypropylene convoluted brush rings make sweeping more powerful. With vigorous design KEW Robust sweeper can be used on rough road works job with or without the dust collecting hopper.

Comparison of Kaushik Robust Sweeper with Other Road Sweepers available in India

Kaushik Robust Sweeper TRULY Hydraulic with European technology introduced first time in India.

100% power being used for faster and better cleaning. Sweeper is running with hydraulic motor which achieves variable speed by vehicle (tractor) accelerator as per the need.

We use specially designed Polypropylene brushes which puts lesser pressure on motor and vehicle's hydraulic functionality, elongates life of brushes and makes the brush stick to sweeper shaft for sturdy movement.

Kaushik Robust Sweeper is virtually maintenance free machine as only hydraulic motor is needed to run the machine through tractor/vehicle used with solid zero maintenance tyres.

Uses vehicle's hydraulic functionality and no need for additional hydraulic oil. Easy & fast operation - with help of quick coupler, sweeper can be attached or detached in less than 10 minutes

BASIC CONFIGURATION:

- Machine casing stable and rigid construction
- Working width 2000 mm
- Pressure release valve 160 bar (to protect the hydraulic system)
- Run on system prevents sudden stop of the heavy brush
- Tough wheels 200 x 50 mm
- Easy snap-on, snap-off functionality can be attached / detached within minutes
- Broomer uses hydraulic functionality of tractor / loader
- Adjustable Brush Height, Replacable Brushes
- Broom hydraulically angles 30 degrees in either direction

OPTIONS

- Extra strong wheels 250 x 80 mm for rough jobs
- Water-spray system to bind the dust incl. 100 / 200 Ltr. tank and intermitting pump
- Hydraulic side brush for low-wall sweeping (incl. water-spray system)
- Side lamps



WORKING WIDTH	BRUSH	TOTAL WIDTH	REQUIRED OIL FLOW (for 160 Bar)	WEIGHT
2000 mm	600 mm	2270 mm	30 - 40 L	410 kg.

Note : Measures and weights are approx. and non-binding.



Wet Mix Macadam Plants

In continuing the tradition of providing automatic excellence in Road Construction Machinery, KAUSHIK has engineered Wet Mix Macadam Plant (Soil Stabilisation Plant) for achieving homogenous mix material to prepare base and sub base in Road Construction Projects. Designed to confront the toughest job site requirements and maximum reliability and uptime, KAUSHIK WMM plants have robust structure and quality precision.

Motivated to meet specific customer requirements, KAUSHIK WMM plants ranging from 100 TPH to 300 TPH can be tailored as needed. Cement stabilisation (CTAB) system and other optional accessories can be provided as per the requirement.

STANDARD CONFIGURATION:

- Pug mill Mixing Unit
- Cold Aggregate Four Bin Feeder
- Oversize Removal Vibrating Screen,
- Conveyors - Load out & Slinger,
- Gob Hopper
- Electrical Control Panel with Fully Furnished Cabin

OPTIONAL ATTACHMENTS PROVIDED TO SUIT SPECIFIC NEEDS:

- Storage Silos
- Water Tank

MODEL	KEW 100	KEW 150	KEW 200	KEW 250	KEW 300
CAPACITY	100 TPH	150 TPH	200 TPH	250 TPH	300 TPH



EXHIBITIONS



- Argentina -



- Brazil -



- Uruguay -



- Paraguay -



- Peru -



- Kenya 2010 -



- Bauma China 2008 -



- Jordan -



- Kenya 2012 -



- Bauma China 2010 -



- Bauma Germany 2010 -



- BC India 2011 -



- Bauma China 2012 -



- Bauma Germany 2013 -



- BC India 2013 -



- Algeria -

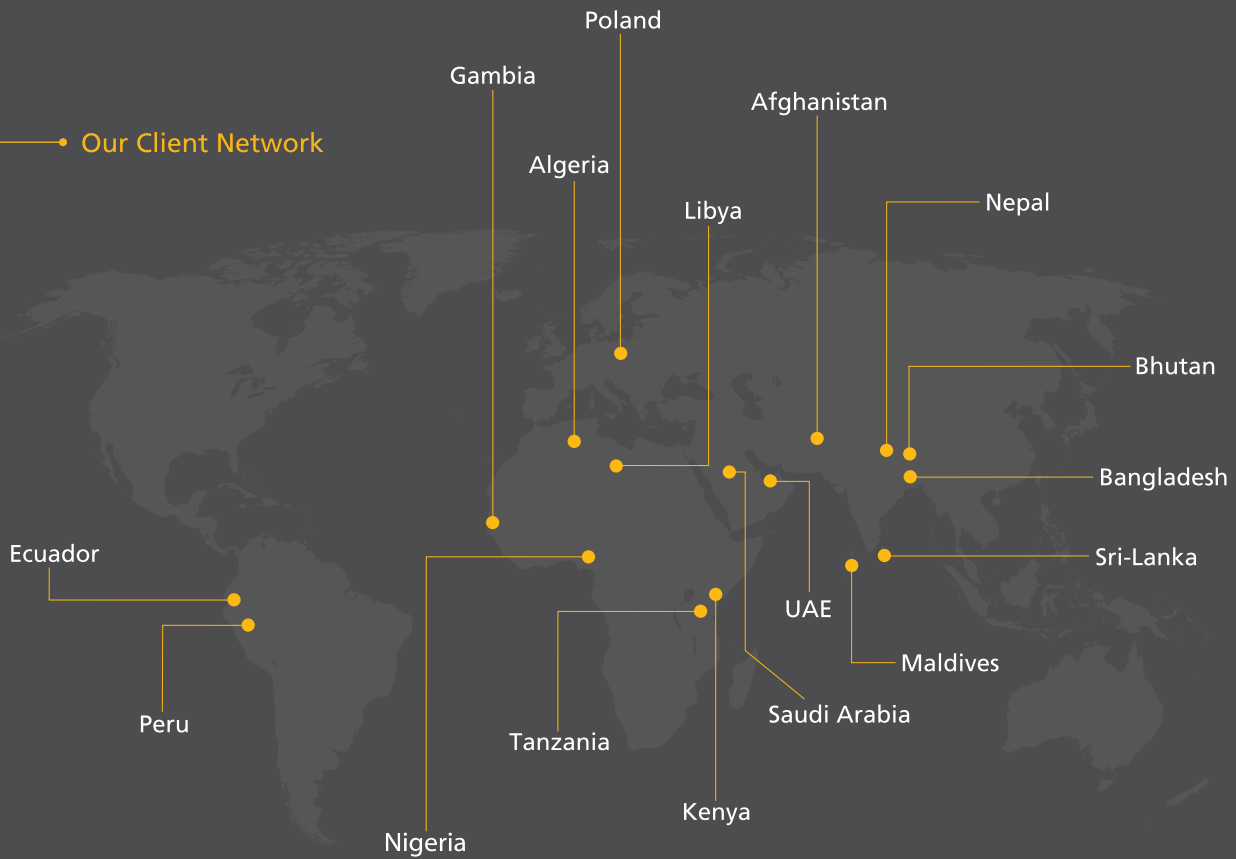


- Tanzania -



- Big 5 2012 UAE -

• Our Client Network



KAUSHIK®
ENGINEERING WORKS

ADDRESS: Plot 520, Road No. 14 Kathwada GIDC,
Odhav-kathwada Road, Ahmedabad - 382430, Gujarat, India.

PHONE: +91 79 22901989, 22902714
CELL: +(91) 90999 41311, +(91) 98251 64764
FAX: +91 79 22902815

EMAIL: info@kaushikengineeringworks.com
WEB: www.KaushikEngineeringWorks.com



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