



KAUSHIK[®]
ENGINEERING WORKS

WINNING FORMULA FOR **ASPHALT**





KAUSHIK[®]
ENGINEERING WORKS

ABOUT US

We, **Kaushik Engineering Works**, are a prominent construction equipment manufacturing company of India based in Ahmedabad (Gujarat) INDIA and also a leading exporter of road construction plant & machinery.

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 : 2015 (For Quality) & ISO 14001 : 2015 (For Environment) 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.

“ Our cardinal objective is to serve a wide array reliable, high quality & cost effective machine of Road Construction Machinery industries with internationally accepted components & technology. ”



Mr. Niraj Shah
Managing Director

OUR VISION

Our Vision is to be the global leader company in road construction machinery domain by improving the successful status gained within the country and abroad. Obtain & retain customers satisfaction as a reliable, a straight-forward and as successful company.

ADVANTAGES

- High fuel efficiency and lower carbon foot print
- Internationally accepted quality standards
- Extremely rapid erection and implementation times with options like steel foundation and plug socket cabling
- Environment friendly equipments as per international pollution norms

OUR GOALS

- Becoming a global leader in manufacturer in road construction machinery sector.
- Maintain and develop our brand leading status in the construction machinery market.
- Prioritize our all customer and employee satisfaction
- Continuous product development and innovation.
- Rewarding and highlighting quality, service and support.

OUR RANGE OF PRODUCTS

- Asphalt Batch Mix Plant
- Asphalt Drum Mix Plant
- Mobile Asphalt Drum Mix Plant
- Wet Mix Macadam Plant
- Bitumen Sprayer (Truck / Trolley Mounted)
- Asphalt / WMM Paver Finisher
- Road Marking Machine
- Bitumen Melting Machine (Decanter)
- Road Sweeper (Broomer)
- Chip Spreader
- Concrete Batching & Mixing Plant (Mobile / Stationery)



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.



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 thermo-drum internals, are screened out ensuring better performance and safety of the plant.

ASPHALT DRUM MIX PLANT

KEW-25 20-30 TPH **KEW-45** 40-60 TPH **KEW-50** 60-90 TPH **KEW-60** 90-120 TPH **KEW-65** 120-150 TPH

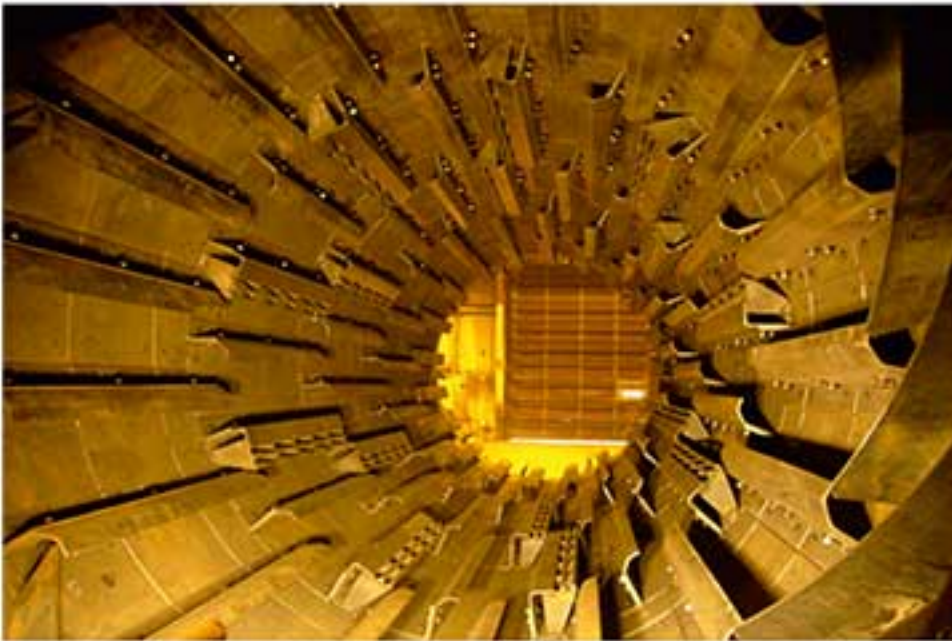
KAUSHIK automatic Asphalt Stationary Drum Mix plants, compliant to the latest M.O.R.T.H. (previously known as M.O.S.T.) specifications, are designed and engineered to give trouble-free performance with superior fuel efficiency. Our pursuance to offer our customers the best and constant up-gradation of products; today showcases exceptional and unmatched product refinement in our asphalt plants. Available in capacities ranging from 20 to 150 TPH output in different.

Also as per requirement of customer.



DRYING & MIXING UNIT (Counter Flow Type & Parallel Flow Type)

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, convective 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.

Two Variant available: Counter-flow Type & Parallel flow Type



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.

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.

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.



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 are ranging from 10 tons to 50 tons. The indirect heating tanks are supplied with a Japanese design thermal oil heater. The Direct heating tanks are supplied with automatic imported pressure jet burner.

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.

CONTROL PANEL

Fully computerized control panel & 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 venture 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 meta-aramid 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.



INSULATED 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 swivelling load out conveyors.



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 to days how cases exceptional and unmatched product refinement in our asphalt plants.

Our MOM (Mobile) series offers customers the industries 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.



ADVANTAGES

- Rapid Erection and lower implementation time
- Perfect for remote areas and / or short duration projects
- Completely pre-wired with socket arrangements- plug and play
- Customized solutions to meet specific transportation norms
- Sets up and packs up with a minimum number of loads



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

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



ASPHALT BATCH MIX PLANTS



- ❶ Cold Aggregate Bin Feeder
- ❷ Collecting Belt
- ❸ Inclined Belt
- ❹ Drying Drum
- ❺ Burner
- ❻ Aggregate Elevator
- ❼ Filler Elevator / Screw
- ❽ Vibrating Screen
- ❾ Hot Aggregate Bin
- ❿ Weighing Units
- ⓫ Mixer
- ⓬ Stock Silo
- ⓭ Chimney
- ⓮ Filler Silo
- ⓯ Bag Filter
- ⓰ Control Cabin
- ⓱ Bitumen Tanks
- ⓲ Fuel Tank
- ⓳ Thermic Fluid Heater

KAUSHIK CESAN EQUIPMENTS INDIA PVT. LTD. - A MEMBER OF KAUSHIK GROUP

KaushikCesan is a joint venture between Kaushik Engineering Works and Cesan A.S., Turkey to manufacture Asphalt Batch Mix Plants and to serve their global clientele with outstanding engineering, manufacturing and production services. With this joint venture, Kaushik is expanding its position in the field of Asphalt Batch Mixing plants in India and world-wide. The joint enterprise is responsible for Asphalt Batch Mix Plants while Kaushik Engineering Works continues to operate for all Asphalt and Concrete related products on a global basis.

Plant Models

KC-80 KC-120 KC-160 KC-200 KC-250 KC-300 KC-400

KAUSHIK CESAN
EQUIPMENTS INDIA PVT. LTD.

www.kaushikcesan.com

STANDARD CONFIGURATION

- 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



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.

TROLLEY MOUNTED BITUMEN SPRAYER



BITUMEN SPRAYING PRESSURE

0 - 6 Kg/cm², Pressurized Bitumen Spraying.

SPRAY BAR

Standard Width: 2.4 M.

Adjustable Extension Bar For Spraying Width up to 4.2 M. Nozzle Distance: 225mm Nozzle de.

Pneumatically Operated Nozzles For Spray Bar Controlling.

With Hand Torch Burner

Unique Pressure Cleaning System

TEMPERATURE INDICATORS

0 - 300 CO (Analog) scale fitted on the tank. Digital Temperature Indicator with speed indicator

DRIVING UNIT

Powered By A 25HP Air Cooled Diesel Engine.

BITUMEN PRESSURE DISTRIBUTOR

KEW-4000
4000 LTRS

KEW-6000
6000 LTRS

KEW-8000
8000 LTRS

KEW-10000
10000 LTRS



- (Kirloskar/HTC) make 6.0 HP air cooled diesel engine
- L.A.P. Burner heating system / Wood fire heating system available
- Bitumen pump
- Nozzle with M.S. Spray Gun handle
- Trolley wheel Pneumatic Rubber Type (2 nos. / (OPTIONS) 4 nos.)
- S.S. corru. Flexible hose pipe / (OPTIONS) Rubber stem hose pipe
- Air compressor for road cleaning facility & L.A.P. burner Bitumen tank heating system



BITUMEN TANK

Tank is fabricated by a 5 mm MS sheet and is coated by 50 mm glass wool to prevent heat loss. The outer covering is galvanized/S.S. as it has long life due to its anti-corrosion properties. Manhole for maintenance or to fill the bitumen tank is of 450 mm diameter.

Manual and electronic temperature gauge is provided for temperature display up to 300 Degrees Celsius. Electronic temperature gauge is given at the drivers' cabin. A ladder and platform is provided for ease of access to the top. A cock is given so that full bitumen tank can be drained out when required.

ENGINE

Engine: Single stage twin cylinder air cooled diesel engine of 25HP at 2000 RPM "KIRLOSKAR" Engine model HA 294.

Bitumen pump and air compressor are engine driven.

Fuel consumption is 3-4 litres per hour.

PNEUMATIC SYSTEM

A pneumatic hand lever valve is provided near the operator's seat.

This is important to open and close the spray nozzles.



BURNER

Single high pressure oil burner (Diesel Compatible) for adequate heating of viscose binder is provided. Burner does the task of heating bitumen tank. Tank burner of capacity 43000 or 100000 cal is provided, depending on the sprayer capacity. A hand torch type burner of capacity 26000 cal is for manually cleaning the pipelines. This burner will be useful to facilitate quick start up of the sprayer in extreme cold.

There are two fuel storage tanks provided with the sprayer. One is of 100 litres for burner and for engine, fuel storage is of 50 litres.



BITUMEN PUMP & AIR COMPRESSOR

Bitumen pump and air compressor are engine driven.

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

Twin Cylindereed, 3HP, 360 LPM Capacity with working pressure of 9 Kg/cm²

CLEANING SYSTEM

A cleaning system is provided with the sprayer near the bitumen pump.

At the end of day bitumen flow has to be off and entire spray line and spray bar can be cleaned by using air pressure and diesel.

STANDARD CONFIGURATION

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

OPTIONAL ATTACHMENTS PROVIDED TO SUIT SPECIFIC NEEDS

- Storage Silos
- Cement Silo
- Water Tank
- Cement Mattering System



WET MIX MACADAM PLANTS

KEW-100 100 TPH **KEW-150** 150 TPH **KEW-200** 200 TPH **KEW-250** 250 TPH **KEW-300** 300 TPH

In continuing the tradition of providing automatic excellence in Road Construction Machinery, KAUSHIK has engineered Wet Mix Macadam Plant (Soil Stabilisation Plant CTSB 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 are 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.





HYDROSTATIC MECHANICAL PAVER FINISHER

Kaushik wheel mounted mechanical paver finisher has been the choice of road construction companies in India for over 20 years. Proven technology, sturdy construction and ease of operation make Kaushik pavers the first choice for the customers.

Supplied with standard truck tyres, Kaushik pavers ensure long years of trouble free performance.

The hopper operations, screed lifting and vibrating / tamping arrangement are hydraulically controlled.

LONG LIFE

The sturdy construction using quality components leads to long years of trouble-free performance, even in adverse conditions.

VALUE FOR MONEY

Latest technology at competitive prices is our hallmark.

PROMPT AFTER SALE SERVICE

High service levels on the spares front from the Works and Regional Offices combined with prompt response to service calls mean high up time of the equipment around the year.



TECHNICAL SPECIFICATION

Operating Height	3000 mm
Shipping Height	2340 mm
Lenth	5700 mm
Operating Width	3100 mm
Shipping Width	2790 mm
Weight(Approx.)	10 Ton
Truck Dumping Clearance	600 mm
Wheel Base	2500
Engine Make	Ashok Leylands BS III, Model ALT4CTIC3,Kirloskar BS III, Model 4R1040TA3 Or Equivalent
Engine Out put	105 HP@2200rPM
Battery	12 Volts(Heavy Duty)
Tyres:Front 02 Nos.-Solid Rubber	558 X 405 X 305 mm
Tyres: Rear 02 Nos.-Pneumatic	12 X 20 -18 ply
Paving Thickness	10 - 200 mm
Paving Speed	1.25 - 23 meters/min
Paving Width	2500 T 4500 mm (Hydraulically Extendable Screed)
Trvel Speed	0 -16 km/Hr.
Steering	Power Steering
Hopper Capacity	4 Cubic Meters
Main Gear Box	Gear Material EN Type
Auger	Ni Hard Steel Casting
Fuel Tank Capacity	120 Liters
Hyd.Oil Tank Capacity	80 Liters
Screed Heating	2 Nos. Oil Burner
Auger Diameter	300 mm
Screed Vibration	0 -30 Hz
Crown	-1 to +3%
STANDERD Accessory	Tool Box

Application : Asphalt / WMM



SALIENT FEATURES

We are manufacturing Bitumen drum decanter which is robust and rigid heavy structure made from standard steel. There are two parts in unit, upper part is called Heating Chamber and lower part is storage tank for melting bitumen. Heating chamber and storage tank is fully insulated with 75 mm Rockwool.

Using of hot oil heating coils to indirectly heat up drums which can prevent asphalt quality from aging during heating. Seamless tubes are used for heating unit which are 2.9mm thick and tested at 2000 psi.

Model	Capacity/hr.
2x9	3 tons
2x10	3.5 tons
3x9	5 tons
3x10	5.5 tons
4x9	6.5 tons
4x10	7 tons
5x11	10 tons
Also as per requirement of customer.	



We are leading and reliable manufacturer of road and civil construction equipments since 1997. We introduce our new product "Bitumen drum Melting Unit" is used for taking Bitumen out of drums and heating up Bitumen used by Thermic oil Heater. It is very effective than batch type drum melting system which is greatly saves energy sources, manpower and eco-friendly. Khushik Bitumen Drum Melting Unit (Decanter) designed for reliable and easy operation.



BITUMEN DRUM MELTING UNIT (DECANTER)

Capacity - 3 Tons to 10 Tons per hour



ANCILLARY EQUIPMENTS



THERMIC BOILER

- 3,00,000 - 15,00,000 kcal/h capacities
- Can be used separately from control cabin
- Can be run or run out by automatic min-max temperature control time
- High-low pressure control
- Level gauge for thermal-oil. /voiced and lightened warning system
- Thermal circulation pump
- High Efficiency

THERMOPLASTIC PRE HEATER



- Thermal Oil Jacketed Thermoplastic Preheaters, having a capacity of 300 Kgs. (12 Bags)
- New heating system and stirring system designs improves its melting efficiency.
- It is made of special steel with scorch resistance, heating resistance and oxidation resistance and melting quality is much better.
- Vertical Type Mechanical agitation, provided horizontal & vertical stirrer agitations blades.
- Provide Heat eliminating glass wool insulation on outer portion.
- Skid Mounted, Ideal to be transported or Mount on a small 1Ton Capacity Tempo / Vehicle.



ROAD MARKING MACHINE

CONSIST OF

- Safety
- Labour Saving
- Wide Application
- Durability
- Quantitative Glass beads dispenser
- Stainless Steel 304 Paint Tank
- Double Barrel
- Screeding type road marking hopper
- Hopper
- Floor Knife
- Fired Furnace with Safe Ignition device
- Indicator Pin



TECHNICAL INFORMATION

ASPHALT DRUM MIX PLANT

	KEW-45 (45-60 TPH)	KEW - 50 (60-90 TPH)	KEW-60 (90-120 TPH)	KEW-65 (120-150 TPH)
FOUR BIN FEEDER				
No. of Bins	4	4	4	4
Storage Capacity	31MT	48 MT	54 MT	54 MT
Hopper Size (L x W)	2500mm x 2200mm	3000 mm x 2200 mm	3650 mm x 2060 mm	3650 mm x 2060 mm
Auxiliary Drive Motor	1.5 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	400 mm x 2.2 Mtr	500 mm x 2.92 Mtr	500 mm x 2.92 Mtr	450 mm x 3.78 Mtr
Gathering Drive Motor	3.70 KW	3.70 KW	5.50 KW	5.50 KW
Gathering Conveyor Belt	500 mm x 22.5 mtr	600 mm x 25.6 mtr	600 mm x 25.6 mtr	600 mm x 29.6 mtr
Bin Vibrator (1 No)	0.37 KW	0.37 KW	0.37 KW	0.37 KW
Feeding Capacity	100 TPH	150 TPH	200 TPH	200 TPH
Overall Dimension (Approx.)	11.6 mtr x 2.55 mtr x 2.45 mtr	13.5 mtr x 2.55 mtr x 2.45 mtr	16.25 mtr x 2.55 mtr x 2.75 mtr	16.25 mtr x 2.55 mtr x 3.00 mtr
Total Connected Load	8.85 KW	10.45 KW	15.05 KW	15.05 KW
OVER SIZE REMOVAL SCREEN				
Drive Motor	0.37 KW	0.37 KW	0.37 KW	0.37 KW
Wire Mesh	45 mm x 45 mm	45 mm x 45 mm	45 mm x 45 mm	45 mm x 45 mm
Screening Area	900 mm x 1200 mm	900 mm x 1200 mm	900 mm x 1200 mm	900 mm x 1200 mm
SILNGER CONVEYOR				
Conveyor Drive Motor	2.20 KW	3.70 KW	3.70 KW	3.70 KW
Conveyor Belt	500 mm x 15 mtr	600 mm x 15 mtr	600 mm 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	6026 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
MULTICONE 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
Hydraulic 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	2.2 KW	3.7 KW	5.5 KW
CABIN				
Fully Furnished	12 x 8 feet	12 x 8 feet	12 x 8 feet	12 x 8 feet
TOTAL CONNECTED LOAD				
Recommended Generator Set	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

ASPHALT DRUM MIX PLANT

SECONDARY POLLUTION CONTROL UNIT (OPTIONAL)	
KEW Series Wet Dust Collector	BUG HOUSE TYPE FILTER
Type : Water Scrubber	Type :Reverse Air Flow
Exhauster Power : 29.83 KW	Exhauster Power : 55.93 kw
Water Pump : 3.73 KW	Dust Emission : < 50 mg/ Nm3
Dust Emission : < 150 mg/ Nm3	Overall Dimensions Without Chimney :
Overall Dimensions Without Ducts :	6600 mm (H) X 5720 mm (L) X 2100 mm (W)
3500mm (H) X 1500mm (L) X 1800mm (W)	

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

ROBUST SWEEPER

Working width	2000 mm
Brush Ø	600 mm
Total width	2270 mm
Required Oil flow	30-40 L (for 160 bar)
Weight	410 kg

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

BITUMEN PRESSURE DISTRIBUTER

	KEW-4000	KEW-6000	KEW-10000
TANK DETAILS			
Length-L	2400 mm	3000 mm	4400 mm
Width-W	1800 mm	1860 mm	2208 mm
Height-H	1500 mm	1810 mm	1810 mm
Capacity	4000 ltrs.	6000 ltrs.	10000 ltrs.
Man Hole	600 mm	600 mm	600 mm - 2 Nos.
Insulation	50 mm	50 mm	50 mm
Shape	Ellipse Shape	Ellipse Shape	Ellipse Shape

BURNER			
Type	Compressed Air	Compressed Air	Compressed Air
Burner Fuel Tank	50 ltrs.	50 ltrs.	75 ltrs.
Engine Fuel Tank	20 ltrs.	20 ltrs.	20 ltrs.
Service Tank	20 ltrs.	20 ltrs.	20 ltrs.

RECOMMENDED CHASSIS			
Wheel Base-WB	3760 mm	4470 mm	5030 mm
Clear Chassis Length-CL	4850 mm	5750 mm	7000 mm

WET MIX MACADAM PLANT

	KEW -100(100 TPH)	KEW-150(150 TPH)	KEW-200(200 TPH)	KEW-250(250 TPH)
FOUR BIN FEEDAR				
Storage Capacity	20 m ³ (31 MT)	20 m ³ (31 MT)	25 m ³ (40 MT)	25 m ³ (40 MT)
Auxiliary Conveyor	400 mm X 2.2 mtr. X 4 ply	400 mm X 2.2 mtr. X 4 ply	450 mm X 2.92 mtr. X 4 ply	450 mm X 2.92 mtr. X 4 ply
Connected Load	0.75 KW X 4 Nos.	0.75 KW X 4 Nos.	1.5 KW X 4 Nos.	1.5 KW X 4 Nos.
Gathering Conveyor	500 mm X 22.5 mtr	500 mm X 22.5 mtr	600 mm X 25.6 mtr	600 mm X 25.6 mtr
Bin Vibrator	0.75 KW	0.75 KW	0.75 KW	0.75 KW
Gathering Connected Load	3.70 KW	3.70 KW	5.50 KW	5.50 KW
Shipping Dimension	12.5 X 2.55 X 2.45m	12.5 X 2.55 X 2.45m	13.5 X 2.55 X 2.45m	13.5 X 2.55 X 2.45m
VIBRATING SCREEN				
Dimension	1350 mm X 1350 mm	1350 mm X 1350 mm	1350 mm X 1350 mm	1350 mm X 1350 mm
Screening Area	900 mm X 1200 mm	900 mm X 1200 mm	900 mm X 1200 mm	900 mm X 1200 mm
Connected Load	0.75 KW	0.75 KW	0.75 KW	0.75 KW
SLINGER CONVEYOR				
Conveyor Belt	600 mm X 15 mtr	600 mm X 15 mtr	600 mm X 15 mtr	600 mm X 15 mtr
Conveyor Drive Motor	3.70 KW	3.70 KW	3.70 KW	3.70 KW
PUGMILL				
Capacity	100 TPH	150 TPH	200 TPH	250 TPH
No. of Arms	28	32	64	78
Connected Load	18.50 KW	22.00 KW	30.00 KW	37.50 KW
Shipping Dimension	1400 X 2550 X 3200 mm	3950 X 1580 X 3000 mm	3950 X 1580 X 3000 mm	3950 X 1580 X 3000 mm
HYDRAULIC POWER PACK				
Connected Load	2.2 KW	2.20 KW	2.20 KW	3.70 KW
LOAD OUT CONVEYOR				
Conveyor Belt	600mm X 17.9	600mm X 17.9	600mm X 17.9	800mm X 20.3
Conveyor Drive Motor	5.50 KW	5.50 KW	5.50 KW	7.5 KW
CABIN				
Fully Furnished	8 X 6 Feet	8 X 6 Feet	8 X 6 Feet	8 X 6 Feet
WATER PUMP				
Connected Load	1.5 KW	1.5 KW	1.5 KW	2.2 KW
25 MT STORAGE SILO (OPTIONAL)				
Shipping Dimension	4140 X 2980 X 3000 mm			
40 MT FILLER SILO (OPTIONAL)				
Connected Load	4.45 KW			
Shipping Dimension	2420 X 10600 mm			
WATER TANK (OPTIONAL)				
Capacity	12000 Ltrs	15000 Ltrs	15000 Ltrs	20000 Ltrs

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

COMPARISON OF KAUSHIK ROBUST SWEEPER WITH OTHER ROAD SWEEPERS AVAILABLE IN INDIA

KAUSHIK ROBUST SWEEPER

TRUELY 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

OTHER ROAD SWEEPERS

Half Hydraulic Road Sweeper connected with Hydraulic Power Pack that mechanically moves machine.

Only 50% power remaining to clean the surface due to mechanical movement of shafts.

P.T.O. rpm are fixed so the sweeper runs at single speed.

Regular round edge Nylon brushes puts more pressure brushes and wears brush a lot faster. Also, these types of brushes start moving with pressure and don't clean the surface neatly.

There is more downtime of machine due to mechanical coupling of sweepers' broom shaft to P.T.O. shaft which breaks often during the use. Older technology sweepers, using gear & chain drive, have brittle parts, need maintenance, servicing and the use of Pneumatic tires increases chances of puncture/maintenance.

Hydraulic Power Pack needs separate hydraulic oil - hidden cost that customers have to bear.

It takes minimum 45 minutes to attach Sweeper to P.T.O. shaft.

ATTACHMENT SYSTEMS

- Three point linkage system for rear mounting (for tractors)
- Front end attachment system



OPTIONS

- Extra strong wheels $\phi 250 \times 80$ 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



ROBUST SWEEPER

Hydraulic Road Sweeper



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 $\phi 200 \times 50$ 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



KAUSHIK ENG WORKS INSTALLATION ACROSS WORLD



Algeria



Bhutan



Bangladesh



Nigeria



Kenya



Nasik



Tanzania



Uganda



Poland



Poland



Peru



Saudi Arabia



The Gambia



Uruguay

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