



ASPHALT BATCH MIX PLANTS

MAKING
**WORLD CLASS TECHNOLOGY
REACH INDIAN MARKET**

ABOUT US

Kaushik Cesan Equipments Pvt. Ltd. is a joint venture between Kaushik Engineering Works based in Ahmedabad, INDIA and Cesan A.S. based in Ankara, TURKEY.

Kaushik Engineering Works, a leading Indian Construction Equipment manufacturing company, commenced production of Asphalt Plants in the year 2000. Since then Kaushik has been increasing its geographical presence not only in India but also in the overseas markets. At present, its products are exported to South Asian, African and Middle East countries and to Europe as well. The company entered into the European market by selling its plant in Poland. Around 50% of its products are sold in export market and it is aggressively promoting the sales of its products in the Latin American and Eastern European markets.

CESAN A.S. founded in 1984 has more than 650 Asphalt Plant Installations in over 60 Countries in Europe and rest of the world. CESAN has commenced its production activities in 1984. CESAN has considerably increased its business capacity with the production of asphalt plant facilities in the year 1995 and has reached a state of producing asphalt plant facilities using the highest and the most advanced technologies according to stringent European and other world standards.

Kaushik Cesan was established in the year 2013 to serve a global clientele with high technology products having outstanding engineering, superior manufacturing and strong service support at competitive prices. Kaushik Cesan has successfully manufactured and installed more than 60 Asphalt Batch Mix Plants in India. Kaushik Cesan has established a State of the Art 12,000 sq.m. Manufacturing facility at Sanand. This facility has significantly increased production capacity with all manufacturing processes now carried out in-house for improved quality and faster delivery."

About KC Series Asphalt Batch Mix Plant

Kaushik Cesan Asphalt batch mix plants are designed for maximum efficiency and minimum operation cost. The plant can reduce energy consumption, greenhouse gas emissions and improve operating efficiency by reducing fuel consumption with its completely unique, high technology dryer which improves heat transfer to the aggregates. For each metric tonne of asphalt produced, one litre of fuel can be saved easily. Considering the plant output, this will result in substantial savings in operating costs as compared to competition. Operating costs are further lowered by long life of system units and minimized maintenance needs. The operation of the plant can be controlled continuously through the computer monitor on the operator table manually, semi-automatically and automatically. Apart from these, modular structure of the products provides easy erection and replacement in a very short time.



OUR VISION



Mr. Niraj Shah
Managing Director

Our Vision is to be a leading supplier of Road Construction Machinery in India and abroad by providing high quality, state-of-the-art machinery at competitive pricing as per customer requirements, backed by strong service support focused on total customer satisfaction.

ADVANTAGES

- European quality standards unmatched by competitors
- Highest fuel efficiency in the industry
- Efficient world class bag filter for stringent pollution norms
- Extremely rapid erection and implementation times with options like steel foundation and plug socket cabling
- Complete in-house manufacturing for improved quality and faster delivery.
- Lower carbon footprint.

ASPHALT BATCH MIX PLANTS CESAN INSTALLATIONS WORLDWIDE...





CESAN A.S. Founded in 1984 650+ Asphalt Plant Installations in 60+ Countries World-wide

Kaushik Engineering Works a prominent Indian Construction Equipment manufacturing company has commenced with its production activities by means of producing and manufacturing Asphalt Plants in the year 2000. Since then Kaushik has been increasing its geographical presence not only in India but also in the overseas markets. At present, its products are exported to South Asian, African and Middle East countries and recently to Europe as well. The company entered into the European market by selling its plant in Poland. Around 50% of its products are sold in export market and it is aggressively promoting the sales of its products in the Latin American and Eastern European markets.

CESAN has commenced with its production activities in 1984. CESAN has considerably increased its business capacity by way of getting started with the production of asphalt plant facilities within the year 1995 and has reached a state of producing asphalt plant facilities using the highest and the most developed technologies according to the world standards.

On this partnership, Mr. Niraj Shah, Director, Kaushik Cesan says "Our cardinal objective is to serve a wide array of industries with low cost, reliable, and high quality machines. Further, in our endeavor to serve our clients with global quality products, we have collaborated with CESAN A.S. to manufacture Asphalt batch mix plants in India whose demand is growing faster in the country. Through this JV, we will manufacture the plants in various designs and capacities ranging from 80 - 400 TPH depending upon the customer needs and demand."



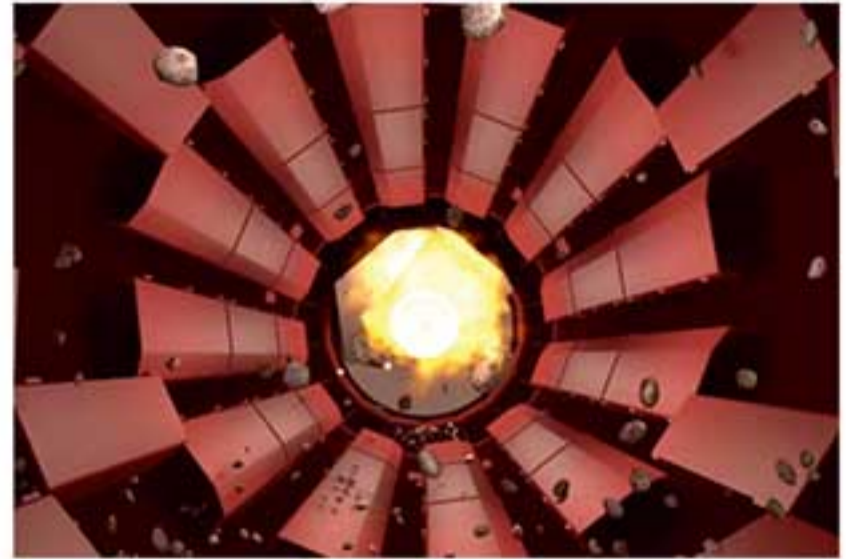
FOUR BIN FEEDER FOR COLD AGGREGATES & INCLINED CONVEYOR BELT



- Proven Performance under harsh conditions.
- Frequency-Controlled sensitive dosing.
- Trouble-free flow.
- Vibrator for easy flow of fine material.
- Process can be controlled and followed from control cabin simultaneously
- Grid used to prevent passing of oversized material.
- Total proportional control for flexibility and accuracy.
- Warning system when material runs out or accidental interruption.

DRYING DRUM UNIT

- Made from special alloy materials for longer life against heat and abrasion.
- Special drying flight design for uniform transfer of heat to all different sizes of aggregates.
- Geared Motor for trouble free operations
- Driven by 4 wheels pulley or chain sprocket.
- Hardening provides long life of ring and pulley materials.
- Maximum heat transfer and high efficiency are provided via special design of burner and inner parts of dryer.

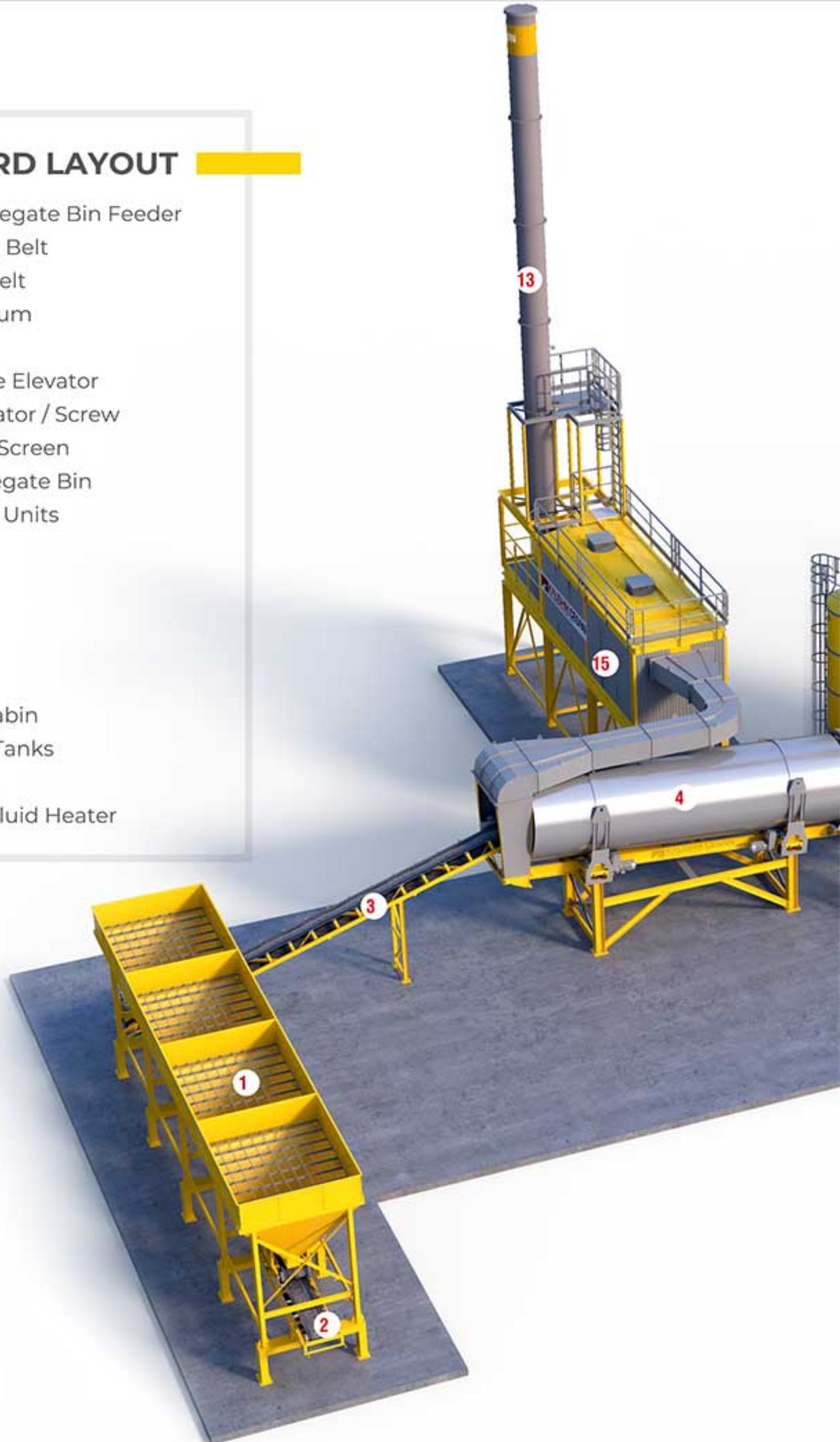


BURNER

- All kinds of liquid fuels, as well as, natural gas and LPG can be used.
- Air/fuel ratio, flame length, suction etc. are controlled automatically.
- Complete combustion provides low NOx, CO emission, high efficiency and low fuel consumption.
- Safe operation.
- Mounting on Rails provided for easy maintenance and repair.

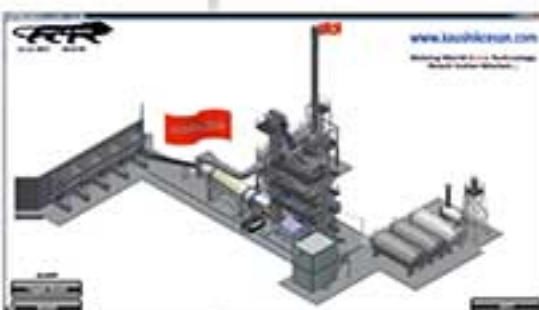
STANDARD LAYOUT

- ① Cold Aggregate Bin Feeder
- ② Collecting Belt
- ③ Inclined Belt
- ④ Drying Drum
- ⑤ Burner
- ⑥ Aggregate Elevator
- ⑦ Filler Elevator / Screw
- ⑧ Vibrating Screen
- ⑨ Hot Aggregate Bin
- ⑩ Weighing Units
- ⑪ Mixer
- ⑫ Stock Silo
- ⑬ Chimney
- ⑭ Filler Silo
- ⑮ Bag Filter
- ⑯ Control Cabin
- ⑰ Bitumen Tanks
- ⑱ Fuel Tank
- ⑲ Thermic Fluid Heater





CONTROL CABIN & AUTOMATION SYSTEM



The operation of the Kaushik Cesan Asphalt Plant can be controlled manually through the computer monitor on the operator table – manually, semi-automatically or automatically.

Control system is SCADA based with easy to understand graphical user interface. -The entire operation can be controlled remotely over the internet. Plant operations and production report are stored in a database.

Aggregate bitumen temperature, flame amount percentage, damper opening percentage, dosing velocities, mixing time, weighing of bitumen, filler and aggregate, etc. are observed and controlled from the control cabin instantly.

The control cabin of the plant is made of sheet iron and its door can be locked. The field of view for the operator is designed so that the operator will be able to see and follow all the plant operations. The cabin is well insulated against external atmospheric conditions. An air conditioner with the sufficient capacity is provided inside the control cabin to perform heating and ventilation.

HOT AGGREGATE ELEVATOR

- Weighted type tension system.
- Interlocking for reverse motion of chain and buckets.
- Special dust protection design of bearings
- Human sized easy maintenance clams.
- Large Maintenance platforms
- Wearing plates protects the buckets against abrasion.
- Perfect design of bucket to provide homogenous heat transfer to all aggregates.
- Easy maintenance of bucket systems.



FILLER SILO

- Recovered filler Silo in Capacity ranging from 3 to 20 Tons
- Rotary Valve is designed for balanced discharging
- Close circuit working system
- Double silo system available for recovered filler and foreign filler material flows fitted separately to the weighing unit

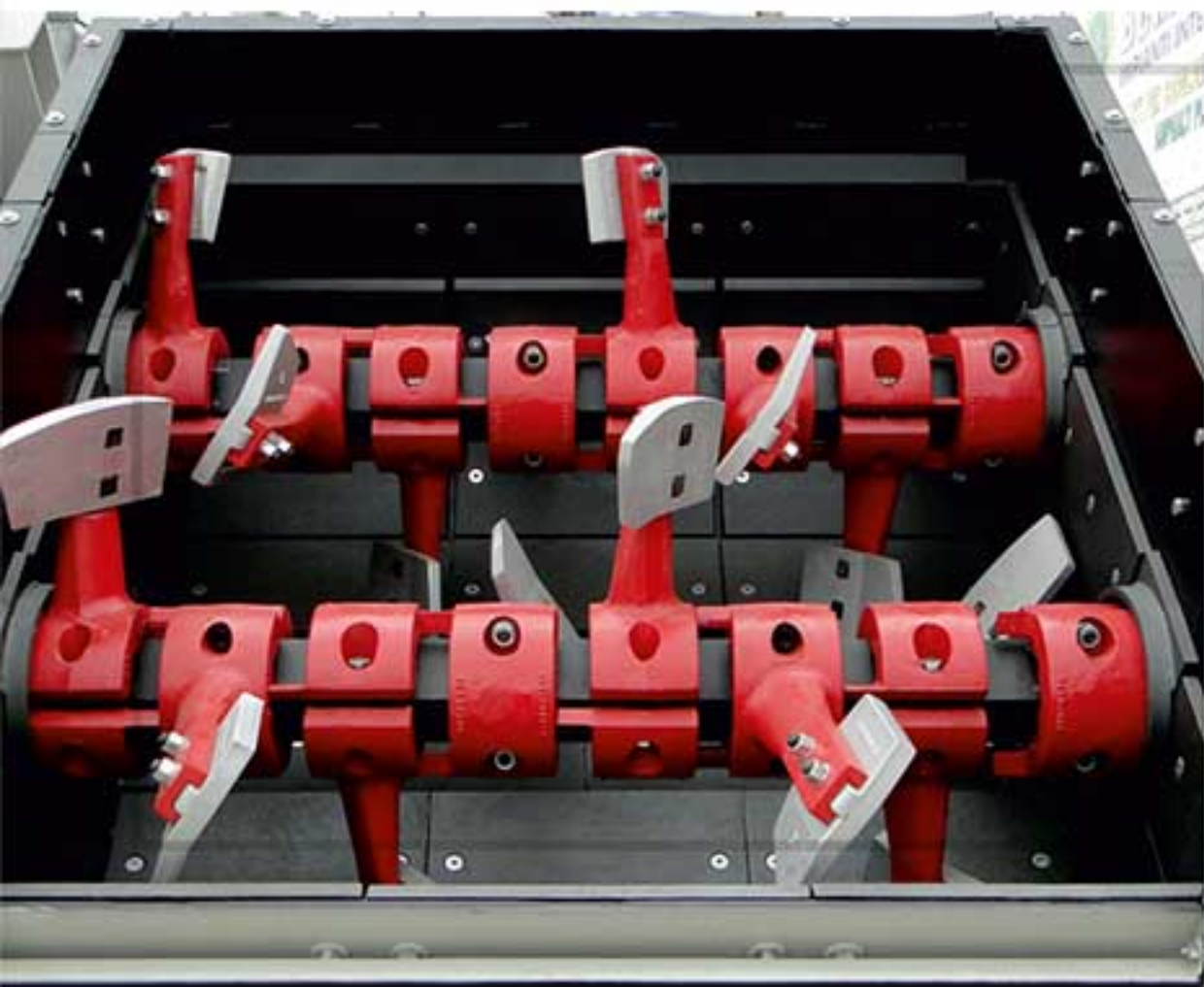


VIBRATING SCREEN

- Optional 4/5/6 horizontal decks
- Drive provided through dual vibrator motors
- Tension, Perfect inclination and homogeneous load distribution provide trouble-free output
- Perfect inner design that prevents the mixing of different sizes of materials
- Easy changeable sieves, useful doors and working platforms for easy maintenance.
- Screen bypass option available.

HOT MATERIAL BIN & WEIGHING UNIT

- 4 or more compartments depending upon Vibrating Screen.
- Each compartment with level indicator.
- Aggregate, filler and foreign fine materials are weighed separately.
- Weighing system with load-cells for bitumen.

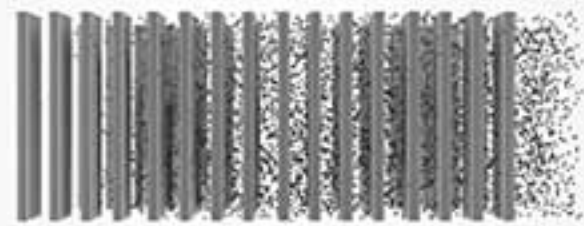


MIXER

- Mixing Paddles made from high manganese cast material ensures long life.
- Specially designed arms and tips ensure a very homogeneous mix in a short mixing time
- Perfect asphalt with 25-30 sec mixing time.
- Gates with pneumatic control.
- Simultaneous working parallel double shafts.

BAG HOUSE FILTER

- Nomex Filter Bags are durable to 200 C° temperature. Fresh air system works at higher temperature than 200 C°
- System works automatically and controlled from control cabin.
- Under 20mg/m emission which meets world standards.
- Compact, less Volume with larger filtration area.
- Reusing of coarse material which are taken from re-separator and reusing fine materials which are taken from filter
- Long Life Aluminium Cages
- Low operation cost & long life



STOCK SILO

- Low type or Tower Type
- Perfect isolation for protection of heat transfer
- Pneumatic controlled discharging gates





THERMIC FLUID HEATER

- 3,00,000 - 15,00,000 kcal/h capacities
- Can be operated separately from control cabin
- Can be run with a u t o m a t i c temperature control
- High-low pressure control
- Level gauge for thermal-oil.
- Audio Visual warning system
- Thermal circulation pump
- High Efficiency

BITUMEN TANKS

- Protection of heat for a long time, perfect isolation
- Jacketed piping
- Bitumen feeding system with pneumatic 3-way valve
- Thermal-oil coil system
- Heat control by thermostatic valves
- Level indicators
- Jacketed bitumen pump



CONTROL PANEL



Reporting according to the Machine parameters

- Distribution of aggregate (in hot bins)
- Distribution of complementary material (Filler, cement)
- Amount of bitumen
- Temperature Distribution
 - Temperature of aggregate
 - Temperature of bitumen
 - Temperature of chimney
 - Temperature of fuel-oil
- Failures & Alarm distribution
- Mixing time period
- Production capacity (Real capacity) distribution
- Cold aggregate feeding distribution (required capacity)
- Production cost distribution
 - Fuel consumption
 - Electricity cost
 - Amount of bitumen

TECHNICAL INFORMATION

| PLANT TYPE | KC 80 | KC 120 | KC 160 | KC 200 | KC 250 | KC 300 | KC 400 |
|--|--|--------------|--------------|--------------|--------------|---------------|---------------|
| Four Bin Feeder capacity (m ³) | 8, 10, 12, 15, 20 m ³ feeding width is up to 650 mm, dosing with frequency controlling | | | | | | |
| Collecting Belt Width (mm) Length (mm) | 500 | 600 | 600 | 650 | 850 | 850 | 850 |
| | varies according to the number of silos | | | | | | |
| Inclined Belt Width (mm) | 500 | 600 | 600 | 650 | 850 | 850 | 850 |
| Dryer Diameter (m) Length (m) | 1.60 7.00 | 1.80 8.00 | 2.00 8.60 | 2.20 9.00 | 2.40 9.00 | 2.40 10.00 | 2.70 12.00 |
| Sieving Machine | 4, 5, 6 decks | | | | | | |
| Hot Aggregate Silos Capacities (tons) | 4,5 divisions | | | | | | |
| | 9 | 20 | 20 | 25 | 25 | 30 | 30 |
| Aggregate Weighing Capacities (kg) | 1250 | 1500 | 2000 | 2500 | 3000 | 4000 | 5000 |
| Filler Weighing Capacities (kg) | 150 | 200 | 200 | 250 | 300 | 400 | 500 |
| Bitumen Feeding Capacities (lt/sn) | 6 | 6 | 10 | 10 | 15 | 15 | 20 |
| Mixer Capacities (kg) | 1000 | 1500 | 2000 | 2500 | 3000 | 4000 | 5000 |
| Automation | Kaushik Cesan Automation System | | | | | | |
| Bitumen – Fuel Tank Capacities (m ³) | 20, 25, 30, 40, 50, 60 | | | | | | |
| Thermal Oil System x1000 (Kcal/h) | 300 | 500 | 600 | 750 | 1000 | 1000 | 1000 |
| Electrical Heating | For all capacities, can be produced in variable capacities regarding to your requests. | | | | | | |

*Kaushik Cesan, reserve the right to make technical modifications without prior notice.

INSTALLATION ACROSS INDIA





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