

ASPHALT BATCH PLANTS

*MAKING
WORLD CLASS TECHNOLOGY
REACH INDIAN MARKET*
www.kaushikcesan.com



About Us

“
Our cardinal objective is to serve a wide array reliable and high quality machines of industries with low cost
”

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 Cesan** was established in Year **2013** to serve their global clientele with outstanding engineering, manufacturing and production services.

Kaushik Cesan has successfully manufactured and installed more than **25 Asphalt Batch Mix Plants** in India in less than **30 months** after manufacturing the first Plant in **2014**. **Kaushik Cesan** is coming up with State of the Art Manufacturing facilities at Sanand which will be increase the manufacturing capacity by **300%**.

"By providing customers with quality, delivery, installation, instruction and after-sale services, we are setting high standards and applying advanced technology developing our business."

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 efficiencies by reducing fuel consumption with its completely self-designed dryer which operates in basic principle heat transfer to the aggregate. For each ton of asphalt a minimum **1 litre** of fuel can be saved. Operating cost is low because of low energy needed, optimized fuel consumption, 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

Our Vision is to be the leading company in road construction machinery domain by improving the successful status gained within the Country and abroad and obtain customer satisfaction as a reliable, a straightforward and as successful company.



Our Goals

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

Advantages

- High fuel efficiency and Lower carbon foot print
- European quality standards
- Extremely rapid erection and implementation times with options like steel foundation and plug socket cabling
- Efficient world class bag filter for stringent pollution norms

Nasik 3, MH



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. Saumil 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.”



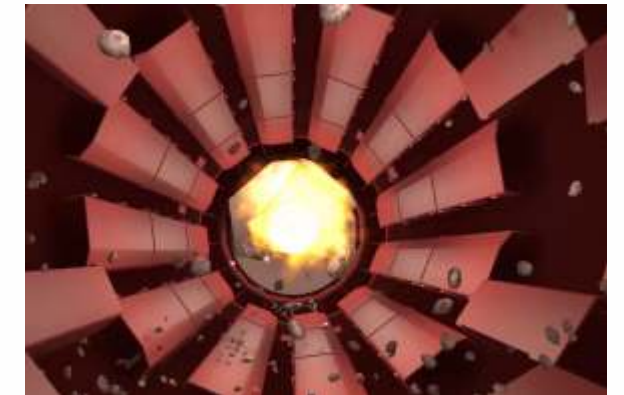
COLD AGGREGATE BIN FEEDERS & CONVEYOR BELTS

- 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 coarse material.
- Total proportional control for flexibility and accuracy.
- Warning system when material runs out or accidental interruption.



DRYER

- Made from special alloy materials to endure against heat and abrasion.
- Special drying flight design for uniform transfer of heat to all different sizes of aggregates.
- Driven by 4 wheels pulley or chain sprocket.
- Hardening provides long life of ring and pulley materials.
- Perfect design of bucket to provide homogenous heat transfer to all aggregates.
- Easy maintenance of bucket systems.
- Maximum heat transfer and high efficiency are provided via special design of burner and inner parts of dryer.



BURNER

- All kind of fluids, natural gas and LPG can be used.
- Air/fuel ratio, flame length, suction etc. are controlled by automation from control cabin.
- Complete combustion provides low NOx, CO emission, high efficiency and low fuel consumption
- Safe operation
- Rail system provides easy maintenance and repair





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



FILLER SILO

- Double silo system for recovered filler and foreign filler material flows fitted separately to the weighing unit
- Rotary Valve is designed for balanced discharging
- Pneumatic shock is designed for easy flow
- Close circuit working system

VIBRATING SCREEN

- Optional 4/5/6 horizontal decks
- Driving is done by vibrator or eccentric weight system
- Tension, Perfect inclination and homogeneous load distribution provide trouble-free capacity
- Perfect inner design that prevents the mixing of different sizes of materials
- Easy changeable sieves, useful doors platforms It can be used as by-pass by means of 0-5 compartment of sieving machine.



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 Palettes witch is produced by Ni-Hard 4 or high manganese cast material is long life guaranteed.
- 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/m³ emission is suitable with respect to world standard.
- Compact, less Volume with bigger filtration area.
- Reusing of coarse material which are taken from re-separator and reusing fine materials which are taken from filter
- Low operation cost & long life.



BITUMEN TANKS

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

THERMIC FLUID HEATER

- 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



STOCK SILO

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

STANDARD LAYOUT



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

CONTROL CABIN & AUTOMATION SYSTEM



The operation of the Kaushik Cesan Asphalt Plant can be controlled continuously through the computer monitor on the operator table manually semi automatically and automatically.

Control system is done by SCADA that works on the Windows operating systems. Main program is very easy to understand and functional. It is used easily with one button clicking. The peripherals information are collected from 3 stations and stored in the computer and processed. It can be controlled directly or from distance by modem/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 as the operator will be able to see and follow all the plant. The cabin is insulated against heat and cold. An air conditioner with the sufficient capacity is provided inside the control cabin to perform heating and ventilation.



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
Cold Aggregate Silos Silo 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	650	650	650	850	850	850
Inclined Belt Width (mm)	500	650	650	650	850	850	850
Dryer Diameter (m) Length (m)	1.60 8.00	1.08 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, 40, 50, 60						
Thermal Oil System x1000 (Kcal/h)	500	600	750	1000	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



Ashti, Maharashtra



Aurangabad, Maharashtra



Gurgaon, HR



Bhatinda, Punjab



Nasik 1, Maharashtra



Surat, Gujarat



Nasik 2, Maharashtra



Siliguri, WB



Mysore



Raipur, Chhattisgarh



Mohali, Punjab



Sangamner, MH



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