

# Asphalt Batch Plant

Making World Class Technology Reach Indian Market



CONSTRUCT | COMMIT | CONQUER  
**CONINFRA**  
MACHINERY PVT. LTD.

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VOCAL FOR LOCAL



**One Stop Solution**  
for your all Construction & Infrastructure Equipments

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## ABOUT US

We, **CONINFRA Machinery Pvt. Ltd. (CMPL)**, 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 & Concrete Batching Plants.

**CONINFRA Machinery Pvt. Ltd.(CMPL)** 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 Coninfra, 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 since our inception. 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 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.



## 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.



Mr. Saumil Shah returned to India in 2006 with a MBA degree from USA as well as International Exposure and a dream of building world class manufacturing facility that can contribute to the growth of his country. Mr. Saumil Shah has more than 14 years of experience in road construction equipment manufacturing industry. He is one of the promoters of Kaushik group, leading road construction equipment manufacturing in India. Under his dynamic leadership the company has seen major export and domestic growth as well as established joint venture & technical alliances. It was only natural for him to diversify into equipment manufacturing of concrete construction equipment. He is a leader with a vision who can think big, aim high and achieve nothing but the best. His focus is on bringing in the finest technology products and expertise to the industry, with an aim to deliver complete and reliable solutions.

## 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.

## 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



## FOUR BIN FEEDER FOR COLD AGGREGATES & INCLINED CONVEYOR BELT

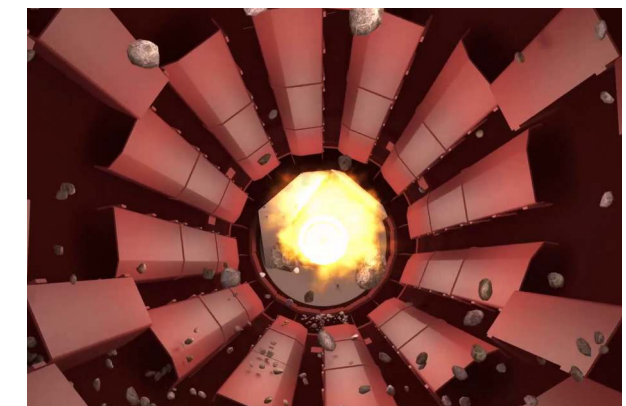


- Proven performance under harsh conditions.
- Frequency-Controlled sensitive dosing.
- Trouble-free flow.
- Vibrator for easy flow of fine material.
- Process can be controlled and followed from control cabin simultaneously
- Grid used to prevent passing of coarse material.
- Total proportional control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



## DRYING DRUM

- 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.
- 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.



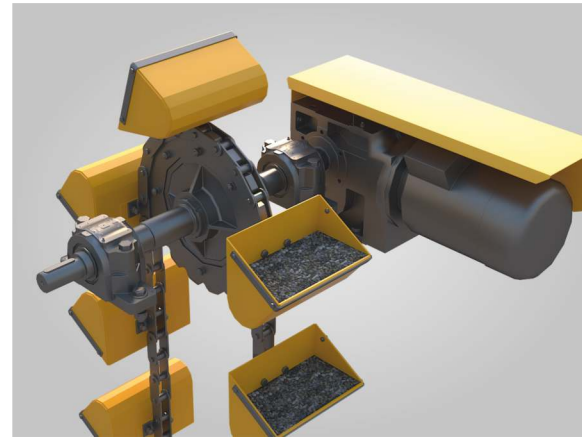
## BURNER

- All kind of fluids, 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.



## 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

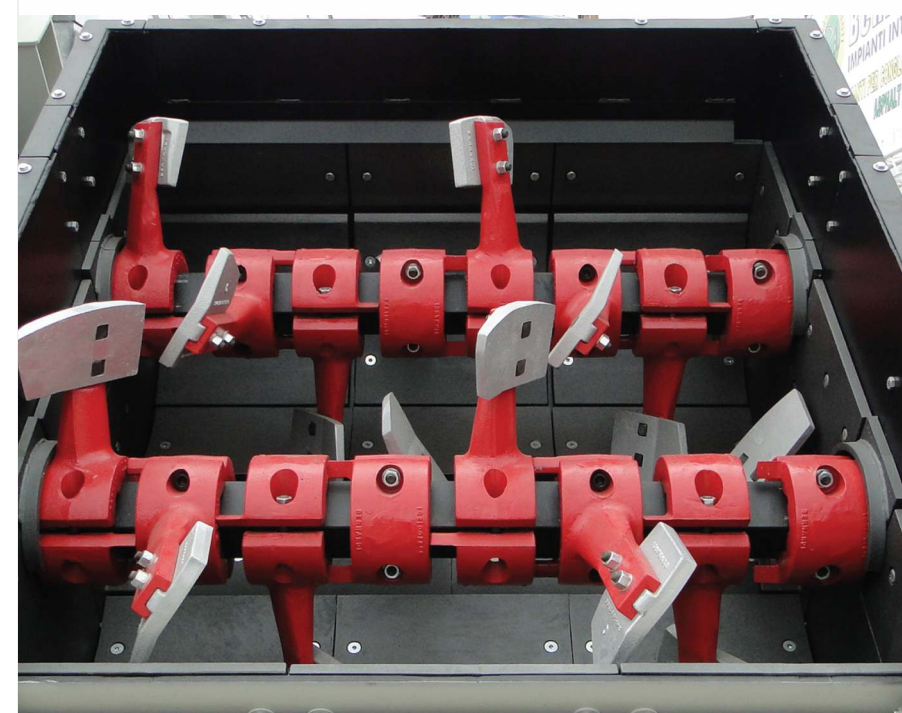
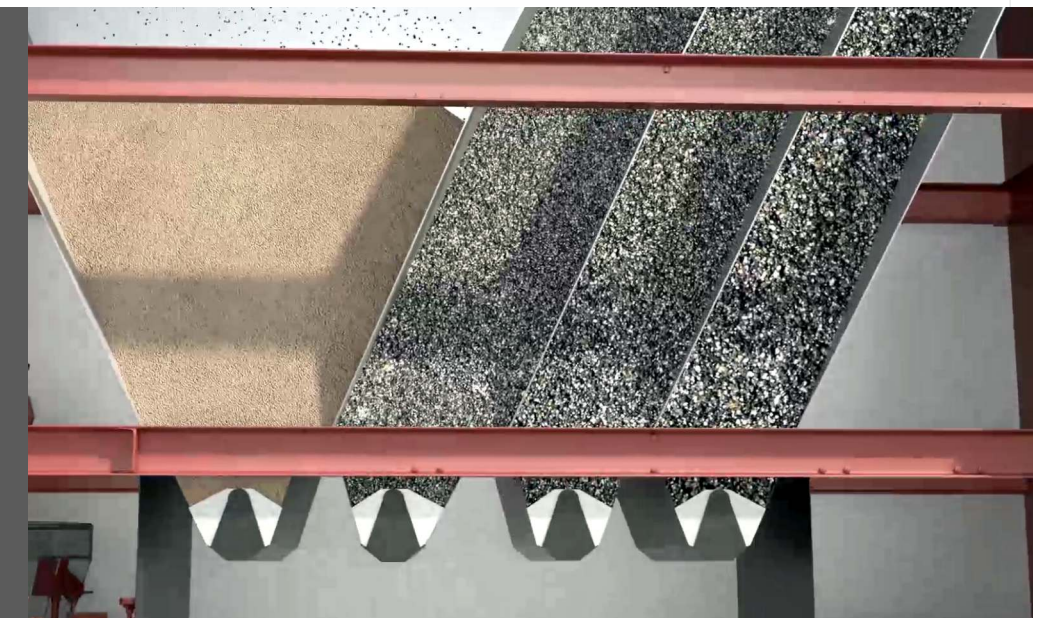
## VIBRATING SCREEN

- 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

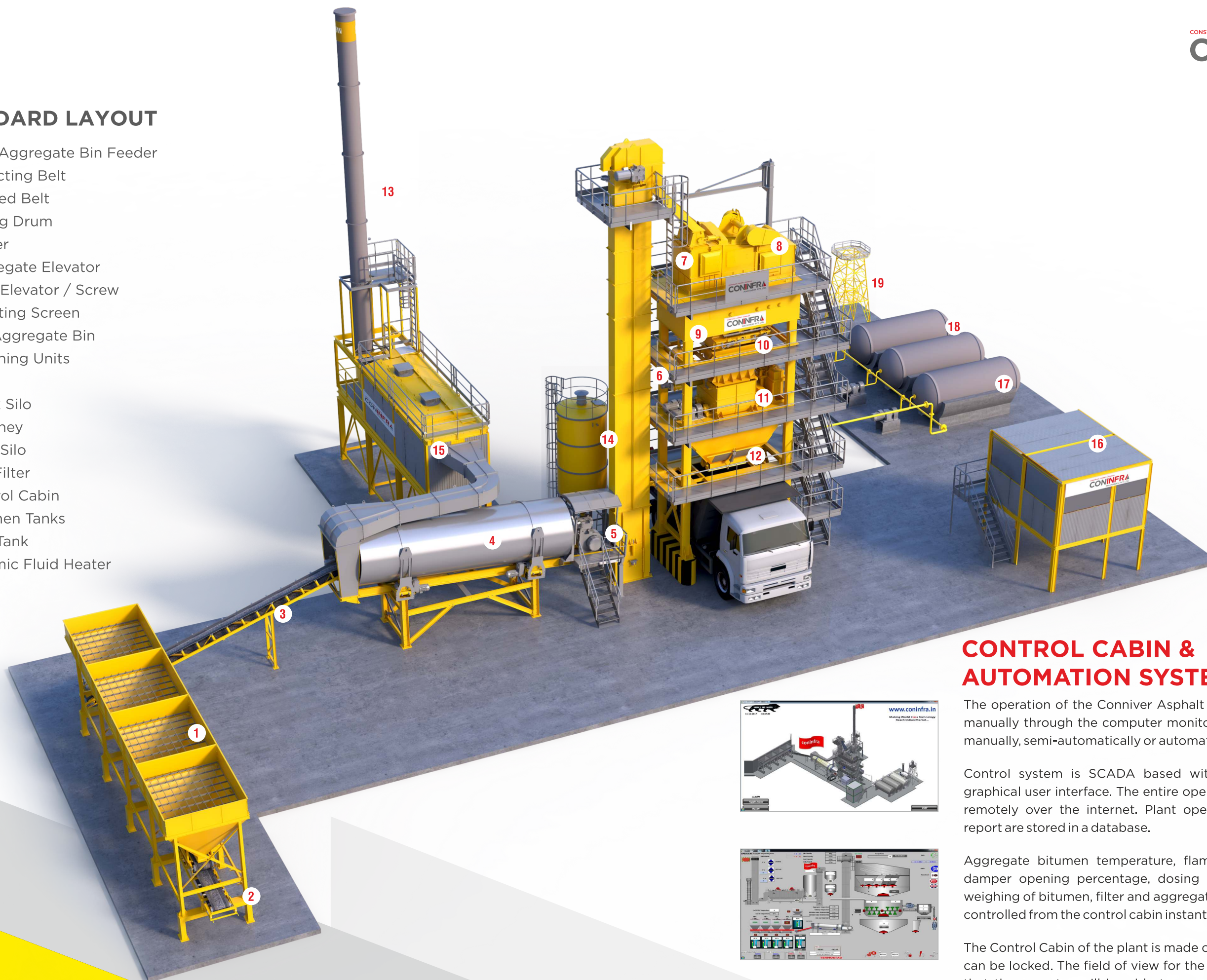


## MIXER

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

## 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



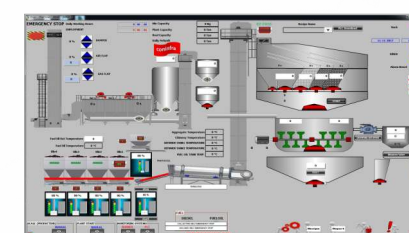
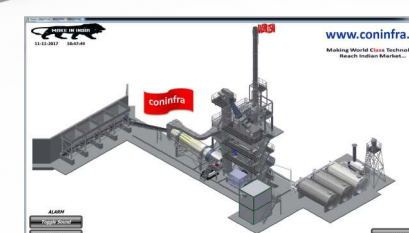
## CONTROL CABIN & AUTOMATION SYSTEM

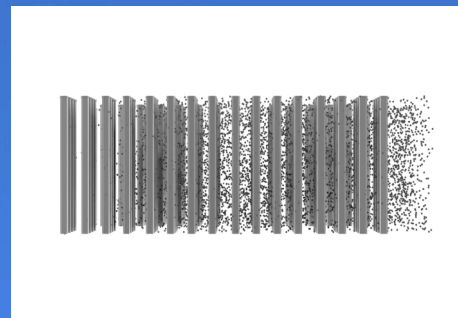
The operation of the Conniver Asphalt Plant can be controlled manually through the computer monitor on the operator table manually, semi-automatically or automatically.

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, filter 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 atmosphere conditions. An air conditioner with the sufficient capacity is provided inside the control cabin to perform heating and ventilation.





## 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
- Long life Aluminium Cages
- Low operation cost & long life.



## 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



## BITUMEN TANK

- 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





## 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	CMPL 80	CMPL 120	CMPL 160	CMPL 200	CMPL 250	CMPL 300	CMPL 400
Four Bin Feeder capacity (m <sup>3</sup> )	8, 10, 12, 15, 20 m <sup>3</sup> 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	Coninfra Automation System						
Bitumen – Fuel Tank Capacities (m <sup>3</sup> )	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.						

\*Coninfra Machinery Pvt. Ltd., reserve the right to make technical modifications without prior notice

## INSTALLATION ACROSS INDIA



