ARDENT
MASCHINFABRIK PVT. LTD.
An Ardent Group Company

THE EXPERTS IN
ASPHALT & CONCRETE BATCH MIX PLANTS

Corporate Office:
Off. T. J. Road, Opp. Sunder Tower,
Hirji Baug, Shashikant Sawant Road,
Sewri West, Mumbai 400 015.
Tel: +91.22.2419 1200
Email: info@ardent-india.co.in

Factory:
Plot # I-13 & 14, Kanhersar Village,
Khed Industrial Area, Tal.: Khed,
Dist.: Pune 410 505.

www.ardentgroup.co.in

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EASYBATCH (VIBRASERIES)

ARDENT GROUP

OUR GROUP COMPANIES

ARDENT MASCHINFABRIK PVT. LTD.

ARDENT INFRA EQUIPMENTS PVT. LTD.

ARDENT MINING PVT. LTD.

ARDENT GENUINE PARTS LLP

ARDENT ESTRADA

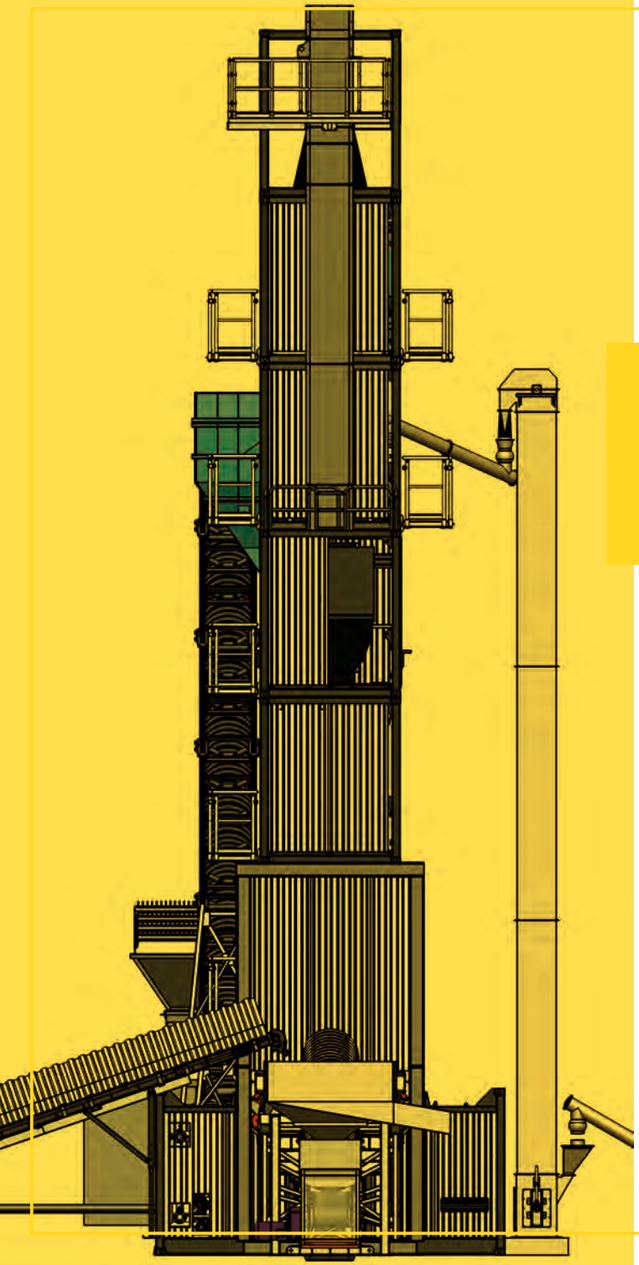
ARDENT MAINTENANCE TECHNOLOGIES PVT. LTD.

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Ardent Maschinfabrik Pvt. Ltd. is the perfect mix of tradition & technology. Strategically located in Pune, India; Ardent group specialises in the development, manufacturing & marketing of Asphalt & Concrete Batch Mixing Plants used in paving highways & airports, road widening & development projects.

WE DELIVER IN BLACK WHAT WE PROMISE ON WHITE



ARDENT
ASPHALT BATCH MIXING PLANTS

Ardent Asphalt Batch Mixing Plants have a compact design which fits into containers for ease of shipment. The reduced footprint of the plant layout and the screen drum concept utilizes dual-functions of drying and screening of aggregates,ensuring very short route of aggregate flow to the hot bins. These plants deliver high capacity hotmix asphalt for highway projects,large airport runways,road resurfacing; the distinguished features incorporated in these plants is that it has no hot elevator, no vibrating screen and a dual purpose screen drum. These Plants facilitates low cost production of Hotmix Asphalt due to lower fuel consumption without compromising on the quality resulting in competitive investment with lower cost of operation with high performance.

EASY TRANSPORTATION

Plants are customised to fit into containers for the purpose of ease of shipment.

ECONOMICAL OPERATIONS

Lower fuel consumption & lower maintenance cost results in lower operating and production cost.

ADDITIONAL ATTACHMENTS

Due to the modular design it is easy to order various attachments basis the requirements & install it at the plant location with ease.

LOWER MAINTANENCE COST

No need to change worn-off buckets, bearings, chains, sprockets as hot elevator is not required. No separate screening section required.

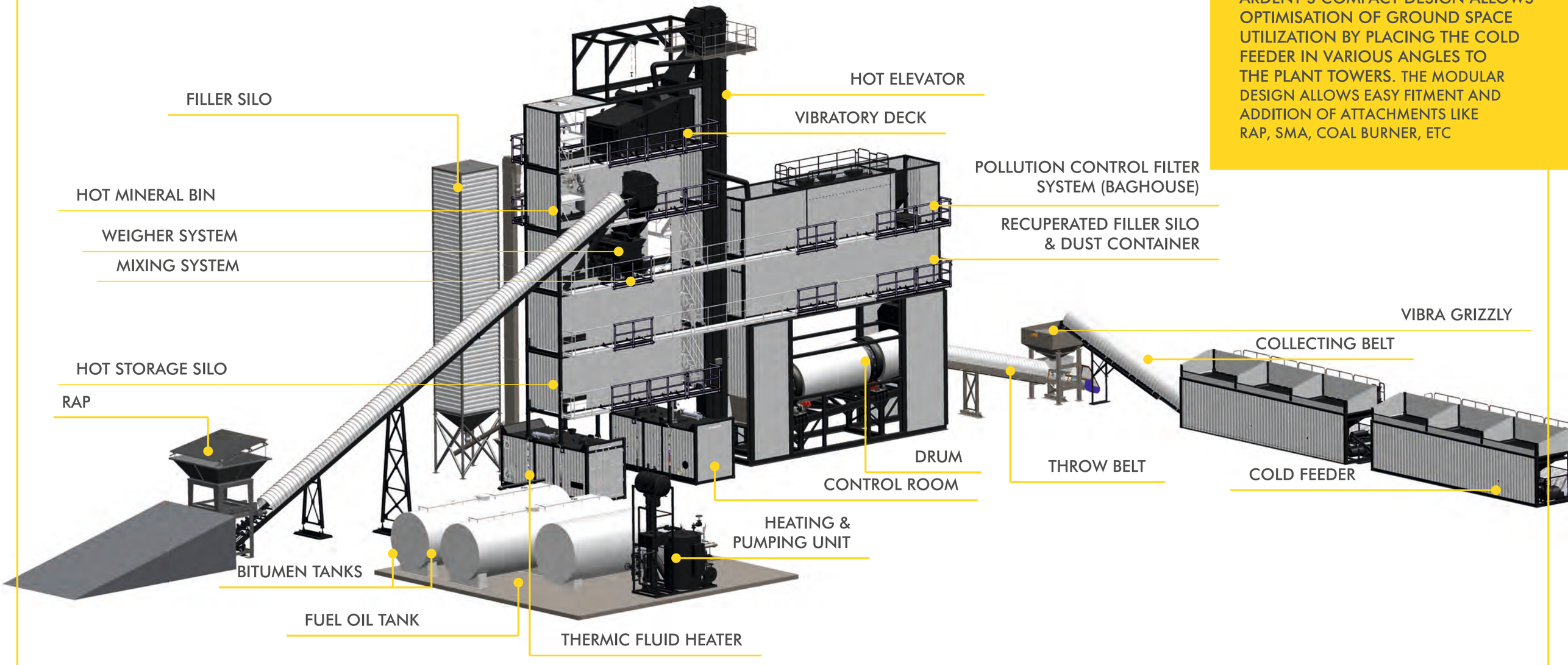
QUICK INSTALLATION

The preassembled stackable unit design of the plant with plug & play feature makes it fast & easy to assemble & Commission.

EASYBATCH (VIBRA SERIES) PLANT VARIANTS

EASYBATCH 140 (140 TPH)
EASYBATCH 180 (180 TPH)
EASYBATCH 260 (260 TPH)
EASYBATCH 320 (320 TPH)

ARDENT'S COMPACT DESIGN ALLOWS OPTIMISATION OF GROUND SPACE UTILIZATION BY PLACING THE COLD FEEDER IN VARIOUS ANGLES TO THE PLANT TOWERS. THE MODULAR DESIGN ALLOWS EASY FITMENT AND ADDITION OF ATTACHMENTS LIKE RAP, SMA, COAL BURNER, ETC



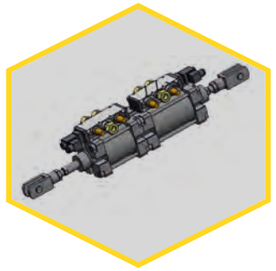
FEATURES

Features that make Ardent Batch Mixing Plants to be the preferred choice of the Customers for development of Roads & Highways

COMPACT AND EFFICIENT DESIGN



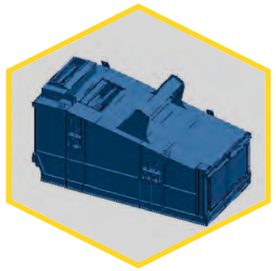
Large capacity hot bin storage to ensure quick batching



Two stage pneumatic cylinders ensure reduction in batch cycle time as there is no jogging of the cylinders.



Reduced elevator maintenance – Extended bucket life decreases elevator downtime and maintenance costs associated with bucket replacement. Buckets are easy to install and replace with a variety of fastening options.

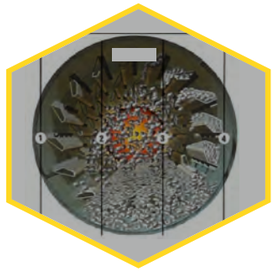


High screening capacity. Practically no wear on the screening deck. Excellent separation effect.



All cages are specially built in aluminium to ensure no rusting & ensure a good bag life

Specially designed drum / dryer flights to ensure higher retention time and low fuel consumption



Specially incorporated safety features like emergency pull chords & emergency switches





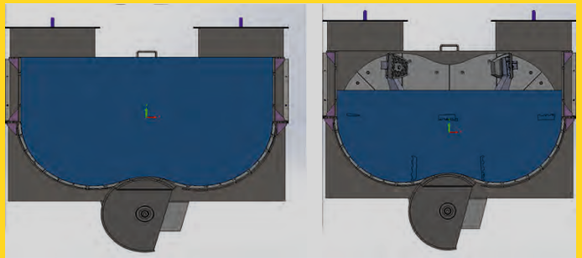
Plug & socket system connected to the junction boxes for easy & fast installation



The plants are designed to be easily accessible, central access provided between the two towers

Mesh on cold bins to ensure oversize removal



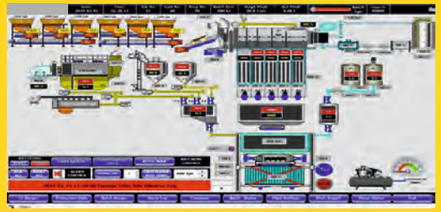


THE GAME CHANGER

LARGE MIXER CAPACITY FOR EFFICIENT BATCHING

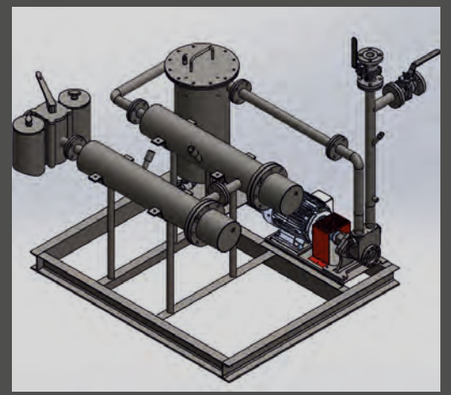
100% BATCH SIZE AT 70% FULL

PROPRIETARY SOFTWARE



ProBatch® Scada based software for best user friendly operation & experience

HEATING & PUMPING SYSTEM



Specially augmented fuel system complete with preheating & heating; pumping station to ensure optimised flow & temperature while using ISHS/FO

STABILITY AND ACCURACY

Robust steel foundations keeps the plant steady also avoids the need for PCC foundations

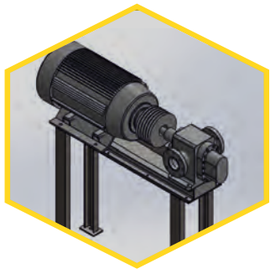




Buffer silo for filler / SMA in plant for faster batching

Galvanised handrails for long life of the plant





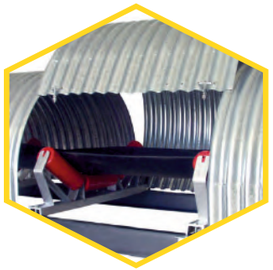
Inbuilt bitumen injection pump for faster batching

In flight control for weighing system to ensure high accuracy

WEATHER PROTECTION

Weather protection enclosure (cladding) to protect against rain, heat and strong winds





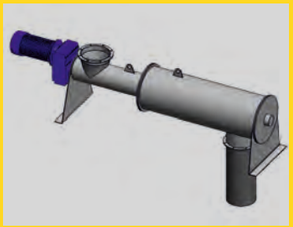
Rain covers on belt conveyors for protection against additional moisture

EFFICIENT CONTROL SYSTEMS

The exhaust fan is VFD controlled instead of damper

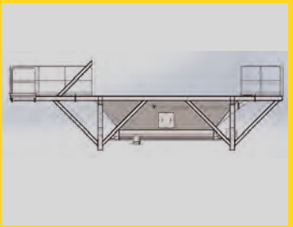


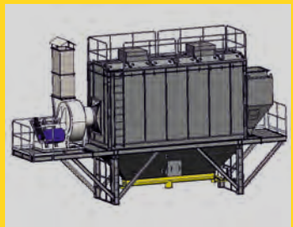
EFFICIENT POLLUTION CONTROL SYSTEM



Dust conditioner for easy disposal of dust resulting in better pollution control

Specially designed recuperated Silo below baghouse to collect fine & feed back to the mix

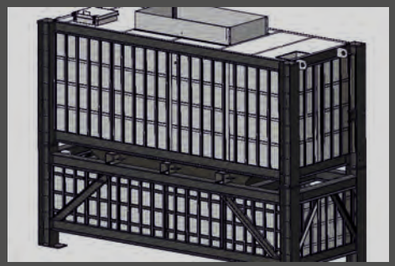




High capacity reverse air bag house with large surface area to collect dust efficiently

STORAGE FACILITY

Linear expandable hot storage silo allows availability of hot asphalt for the customer at all times



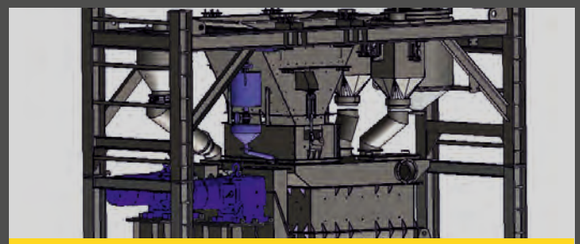
TECHNICAL SPECIFICATIONS OF ARDENT EASYBATCH (VIBRA SERIES) PLANTS

PLANT MODEL	EASYBATCH 140	EASYBATCH 180	EASYBATCH 260	EASYBATCH 320
Rated Output At 3% Moisture	140 TPH	180 TPH	260 TPH	320 TPH
Cold Feed Hoppers Capacity	4+2 (Sand Bin) X 9 M3	4+2 (Sand Bin)X 9 M3	4+2 (Sand Bin) X 12 M3	4+2 (Sand Bin) X 12 M3
Mesh On Bins (for Oversize Protection)	YES			
Collecting Belt Including Grizzly	140 TONS/HR	180 TONS/HR	260 TONS/HR	320 TONS/HR
Throw Belt	140 TONS/HR	180 TONS/HR	260 TONS/HR	320 TONS/HR
Thermal Drum / Dryer Capacity @ 3% Moisture	140 TONS/HR	180 TONS/HR	260 TONS/HR	320 TONS/HR
Number Of Screening Sections	5 SECTIONS / 6TH SECTION OPTIONAL			
Screening Method	VIBRATION			
Hot Elevator Capacity	150 TONS/HR	200 TONS/HR	280 TONS/HR	340 TONS/HR
Vibratory Deck	5 COMPARTMENTS			
Total Screening Area	20 M2	26.1 M2	33 M2	45 M2
Burner C/w Blower For Diesel & Heavy Fuel, Optional Gas, Output *always Subject To Chosen Burner And Fuel Type	12 MW	14 MW	18 MW	22 MW
Hot Mineral Bins - 5 Compartments, Capacity	25 TONS	25 TONS	45 TONS	45 TONS
Aggregate Weigher	2500 KGS	2500 KGS	4000 KGS	4000 KGS
Filler Weigher	300 KGS	300 KGS	500 KGS	500 KGS
Bitumen Weigher With 3 Way Valve, Capacity	200 KGS	200 KGS	400 KGS	400 KGS
Twin-shaft Mixer Capacity At 70% Full	2000 KGS	2500 KGS	3500 KGS	4000 KGS
Baghouse System Ambient Air Cleaning System With VFD Control, Filter Area	425 M^2	495 M^2	900 M^2	1050 M^2
Recuperated Filler Silo	10M3	10M3	50M3	50M3
Hot Storage Silo Below Mixer	20 TON	50 TON	80 TON	100 TON
Silo With Linear Expansion (Optional Accessories)	80 / 100 / 200 TON MULTIPLES			
Recommended Power Supply, Minimum	320 KVA	400 KVA	600 KVA	750 KVA
Plant Control & Monitoring System	PRE-INSTALLED CONTROL SOFTWARE WITH SCADA BASED SYSTEM ProBatch®			
Bitumen Tank (40KL)	2	2	3	5
Thermal Hot Oil Heater For Light & Heavy Oil With Options Of Gas. Dual Fuel & Coal Gas	4,00,000 KCAL	5,00,000 KCAL	6,00,000 KCAL	10,00,000 KCAL
Fuel Oil Tank	24 KL	24 KL	40 KL	40 KL
Pipelines For Fuel Oil / Bitumen / Thermal Oil	INCLUDED			
SMA Dosing System	INCLUDED			
Steel Foundation For Plant	INCLUDED			
Dust Conditioner To Treat Fines	INCLUDED			
Foreign Filler Silo With Bucket Elevator	INCLUDED			

 # Materials and Specifications are subject to change without prior notice.

OPTIONAL ACCESSORIES

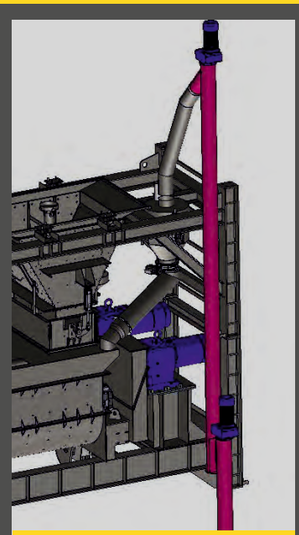
Additional accessories that can be ordered as per the requirement and can easily be installed at the plant location.



Colour Asphalt Liquid Loading System



Rap Sieving System with Conveyors



SMA Dosing System (1.5% Dosing)



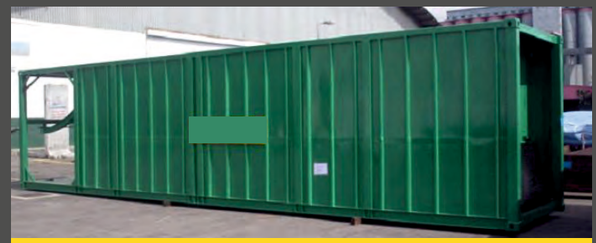
Hot Recycling & Cold Recycling



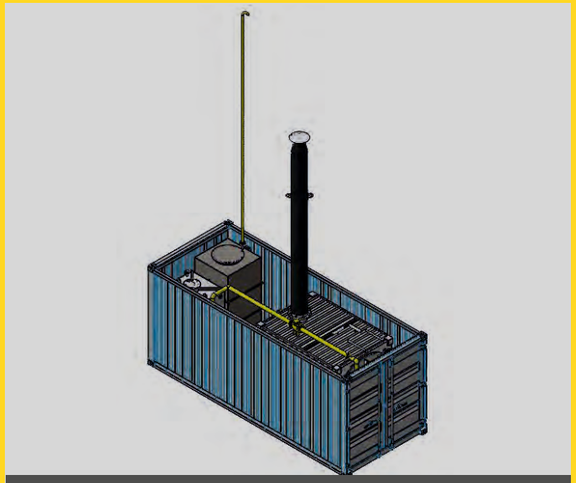
Electric Heated Bitumen Tanks



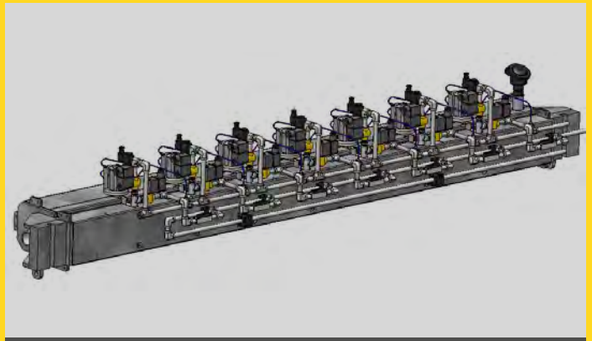
Gussaphalt / Mastic Option



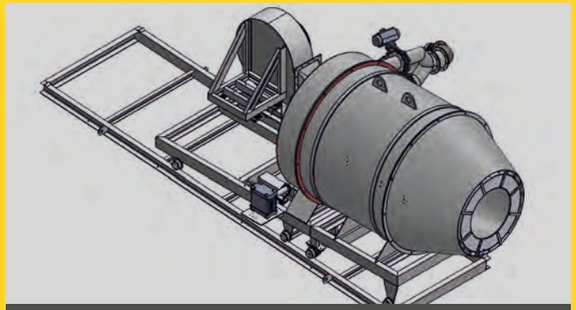
Drum Decanting System



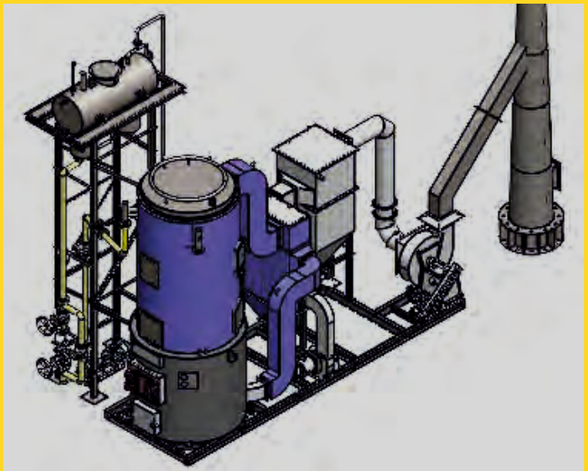
Thermal Oil Heater in Container



Warm Mix (Water Based)



DustPro® Coal Burner Complete with Accessories & Storage



Coal Fired Thermal Oil Heater

OTHER OPTIONAL ACCESSORIES

- RAP Granulator
- Fuel / Gas Metering System
- Hot RAP with Counter Flow Drum
- Waste Heat based Coal Dryer
- Optional Hot Storage Silo Side Skip from 100 to 1600 tons
- Dedust Covers for Cold Feeder with Suction Fans Connected by Duct to Bag House During Loading
- Bitumen Tank Vent Connection to Common Ground Filter for Clean Air Fume Control

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