



UPGRADE YOUR PLANT WITH **RETROFIT**

A Cost Effective Solution

AMMANN

RETROFIT

OPTIONS ON ANP MIX PLANTS

► 1. Retrofitting arrangement for feeding up to 25% of crushed RAP to your existing Asphalt Batch Mix Plant Model ANP 1500/2000 consisting of

Cold RAP Aggregate Feeder — 8 Cubic Meter with Dosing Bet and Vibration Grid

1. RAP Belt Elevator with Platform
2. Buffer Silo 3 Ton
3. Weighing Belt with Platform
4. Discharge Chute with Support
5. Electrical and Control for RA Unit

Recycling of RAP at pug mill upto 25%

Cold recycling of RAP up to 25% in Hot Mix plant is achieved at mixer / pug mill

Cold RAP Aggregate Feeder

- Hopper
- 8 cubic meter capacity with 3 sides 1000 mm extension
- Hopper Vibrator (0.18 KW power)
- Dosing Belt
- Belt Width 650 mm
- Drive - 3 KW Gear Motor
- Vibration Grid
- Mesh Size - 85 mm
- Drive - 0.62KW

With Ready Mix Silo



► 2. RAP Belt Elevator with Platform

Head Station with drive unit and maintenance platform

- Drive-7.5kW
- Head Station consisting of housing with inspection gate , drive shaft with external roller bearings , drive and belt guiding element
- Foot Station with Feeder Chute

Plant without Ready Mix Silo

- 13m of Elevator Length with belt and buckets
- Belt - 300 mm width / 31061 mm Length 96 Nos. of Buckets
- Total Height of Elevator - 14316 mm

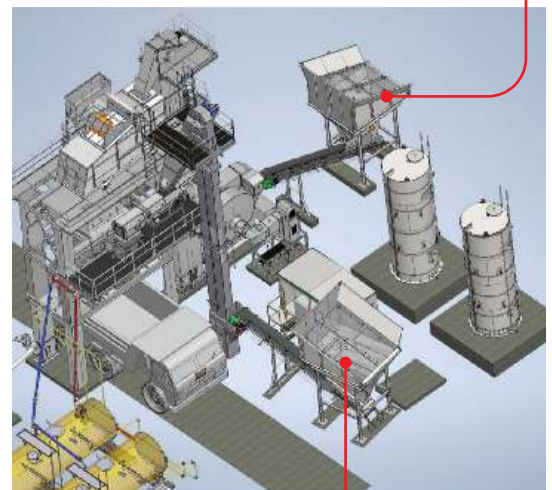
Plant with Ready Mix Silo

- 16 m of Elevator Length with belt and buckets
- Belt - 300 mm width / 37061 mm Length 116 Nos. of Buckets
- Total Height of Elevator - 17316 mm

► 3. Buffer silo

- Buffer Silo Capacity - 3 Ton
- Vibrator - 0.18 kW
- Buffer Silo with Cam Logic maximum level sensor
- Manually operated Gate at bottom to adjust the opening

10% RAC



25% RAC

► 4. Weighing Belt Conveyor

- Discharge Belt, maintenance platform , hand protection, discharge hood and hard metal belt scraper.
- Conveying capacity of discharge Belt Width / Length - 650 mm / 6000 mm
- Bending Weighing Cell (2 Nos.) ~ 100 kg Each
- Drive-4kW

► 5. Discharge Chute with Support

- Inlet chute into the mixer with Lining (Hardox 400) against wear and tear
- Electro- Pneumatically operated Flap to prevent Steam exit (Size - D63 X 100 mm Stroke)
- Inspection Window for viewing purpose

► 6. Electrical and Control Pan

- Control panel with necessary controls to regulate the feeding rate, weigh the materials in batches, and charge the pug mil at predetermined time during the mixing cycle.

► Control of RAC System

Please refer the RAC check :

- As per this, Existing panel details are must before quotation.
- Please submit existing panel details to electrical technical
- department for the selection of appropriate plant control.

FIBER ADDITION ONLY FOR ANP PLANTS

► 1 Adding device for fibrous granulates

1.1 Storage silo

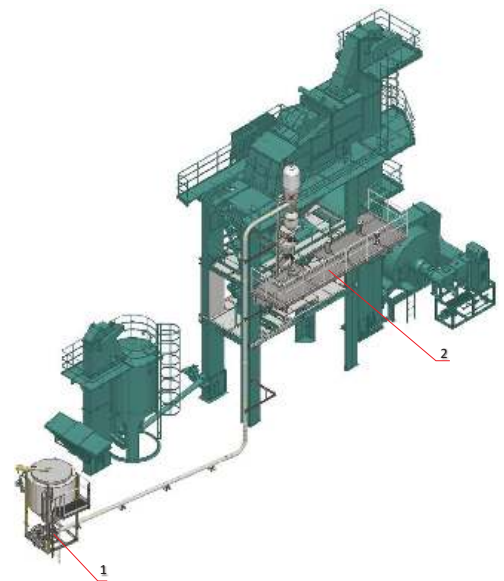
- Diameter 1800 mm
- Height 2500 mm
- Content 3 m³
- Silo with electro pneumatically activated cover, suitable for feeding via BIG BAG.

1.2 Pneumatic conveyor device

- Drive of ventilator 4 kW
- Drive of cell wheel sluice 0.37 kW
- Ducting , max. length 30 m
- Conveyor device consisting of ventilator, cell wheel sluice with feeder nozzle for the supply of granulates, supply pipe with cyclone to separate the conveying air from the granulates, and granulate storage silo with level probe at the end of the hoisting track.

1.3 Granulate dosing device with scale

- Max. batch capacity 30 kg
- Number of load cells 2
- Drive of cell wheel sluice 0.37 kW
- Dosing device consisting of cell wheel sluice with electro pneumatically activated shut off flap, weigh bin mounted on load cells, fabric compensators and electro pneumatically activated bottom discharge with discharge pipe.



RAP FOR ECO TEC 120 PLANT

RAP bin with body vibrator and top screen vibrator
Hopper capacity : 8m³
Hopper with supports and infinitely variable discharge opening
Hopper vibrator connected load 180W
Vibration greed mesh size : 32mmx32mm
Auxiliary belt width : 650mm
Belt with side walls, Belt frame, No flow switch and guiding plate for granulate transfer

RAP auxiliary conveyor with variable frequency control
Auxiliary belt width : 650mm
Belt with side walls, Belt frame, No flow switch and guiding plate for granulate transfer
Drive : 3.0 kW

Stationary oversize removal screen
Dump width : 3500mm
Vibration grid with fixed housing to be mounted on the dosing hopper, suspended grid with vibrator

RAP Feeding conveyor with frame, supports and rollers
Conveyor GB650
Belt tensioner with return roller, threaded tensioner and internal v scraper
18m of intermediate construction-inclined
Station with rubber coated drive roller, frame, guards, discharge chute and hardened metal belt scraper
Drive : 4.0 kW
Feeding hopper between feeding conveyor to RAP weighing belt
Intake hood with lining against wear and tear.

Weighing belt
Discharge belt with belt scale, maintenance platform, hand protection, discharge hood and hard metal belt scraper arrangement
Belt width : 650 mm
Drive : 4.0 kW

RA chute with discharge flap
RA chute into the mixer with lining against wear and tear and electro-pneumatically operated flap to prevent steam exit.

Control for RAC system complete
Steam extraction ducting from mixing tower to dust collection unit
Insulated extraction ducting with electro-pneumatically operated shut-off flap above the mixer hood and electro-pneumatically operated throttle in the raw gas ducting of the fresh mineral drum.



RA COLD ADDITION MIXER

ValueTec 140/180

RAP bin Feeder
1 Bin hopper
Capacity : 8m³
Vibrator power : 0.18 kW
Auxiliary belt
Width : 650 mm

RAP belt elevator
Head station with drive unit and maintenance platform.
Drive: 7.5 kW
Head station consisting of housing with inspection flaps and removable hood, drive shaft with external roller bearings, drive, belt guiding element and three-sided maintenance platform.
Foot station consisting of a feeder chute, housing with inspection doors, shaft with slide bearings made of cast

iron, belt guiding element and aggregate feeder chute with lining protecting from wear and tear.
Dust-proof shaft with elevator belt and screwed buckets with wear resisting edge.

Buffer silo with probe for maximum level measuring and vibrator
Capacity: 3 t
Vibrator power: 0.18 kW

Discharge belt with belt scale, maintenance platform, hand protection, discharge hood and hard metal belt scraper arrangement
Belt width: 650 mm
Drive: 4 kW

RA chute into the mixer with lining against wear and tear and electro-pneumatically operated flap to prevent steam exit.

RA cold addition mixer

ValueTec 140/180 with RMS



RA cold addition mixer

ValueTec 140/180 without RMS



SMA-VT-180 / SPECIAL AGENT ADDITION

without RMS VT

Storage silo

Diameter : 2000 mm

Height : 3300 mm

Content : 5 m³

Silo with electro-pneumatically activated cover, suitable for feeding via BIG BAG.

Pneumatic conveyor device

Drive of ventilator : 4 kW

Drive of cell wheel sluice : 0.37 kW

Ducting max. length : 30 m

Conveyor device consisting of ventilator, cell wheel sluice with feeder nozzle for the supply of granulates, supply pipe with cyclone to separate the conveying air from the granulates, and granulate storage silo with level probe at the end of the hoisting track.

Granulate dosing device with scale

Max. batch capacity : 30 kg

Number of load cells : 1

Drive of cell wheel sluice : 0.37 kW

Dosing device consisting of cellular wheel sluice with electro-pneumatically activated shut-off flap, weighing bin mounted on load cells, fabric compensators and electro-pneumatically activated bottom discharge with discharge pipe.

Note:

SMA material must be as pre below characteristics only.

Burning point : no indication

Ignition Temperature : ca. 500 °C

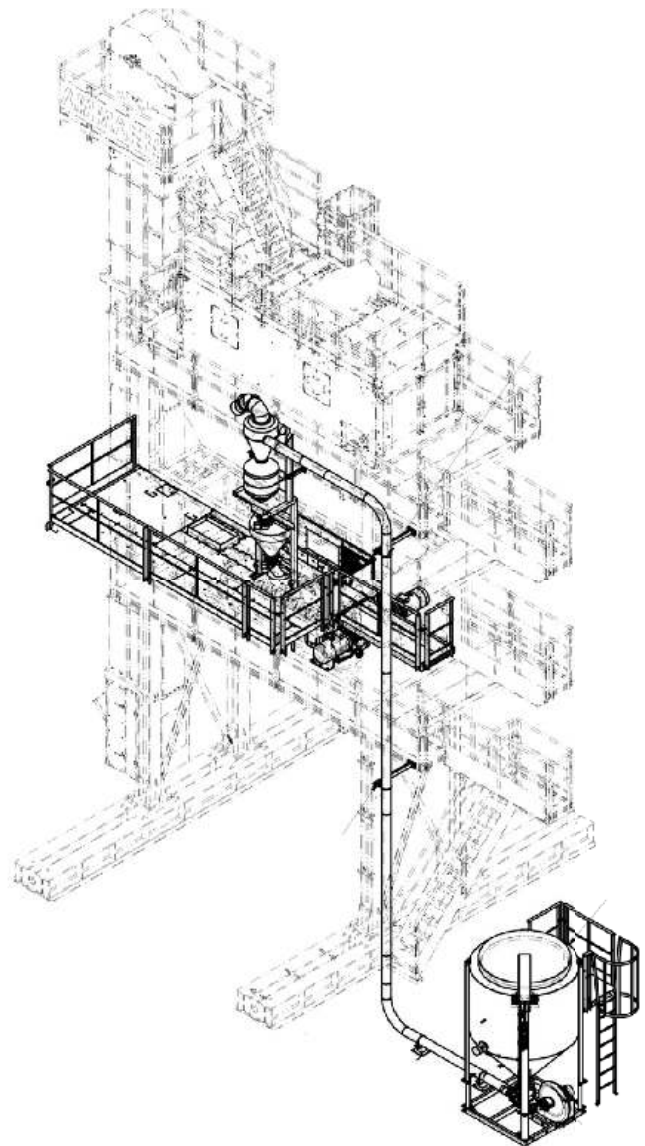
Decomposition temperature : 200 °C

Melting point : No indication

Pellet length : 2-8 mm

Pellet size : 3-5 mm

Bulk density : 440-510 kg/m³



HMI TO AS1 CONTROL SYSTEM

THE BRIDGE TO THE FUTURE

► ONE SOFTWARE SOLUTION FOR ANY KIND OF ASPHALT PLANTS

The adaptability and modular format of the as1 makes it an outstanding choice for retrofitting all types, makes & models of asphalt mixing plants.

► CUTTING EDGE ON-SCREEN GRAPHICAL TECHNOLOGY

Easily comprehensible and fully graphical visualisation giving you total control of your plant.
Simple, easy to use, and modern operation with mouse and keyboard
(The days of large push-button based control desks are a thing of the past)

► REAL TIME CONTROLS WITH AI BASED ALGORITHMS

Numerous statistics and evaluations for quality assurance.
(Continuous MIS for process optimization & reports meeting various Govt. regulatory requirements)

► DETAILED PROCESS & OPERATION RELATED TO MIS

Qualitatively optimal batch production thanks to detailed FIFO & AI based process technology
(Get the Perfect Mix & Reports every time)

► MODULAR HARDWARE & SOFTWARE ARCHITECTURE

Flexible and needs-related expansion possible at any time
(We cover all your future retrofitting needs like Cold & Hot recycling asphalt & other construction technologies)

► PLUG & PLAY RETROFIT UPGRADES

Rapid retrofitting times thanks to the pre-engineered interfaces
(Our completely screen-based PCS solutions enable easy addition of required modules without program change & with minimum downtime when compared with conventional PLC based Control systems).

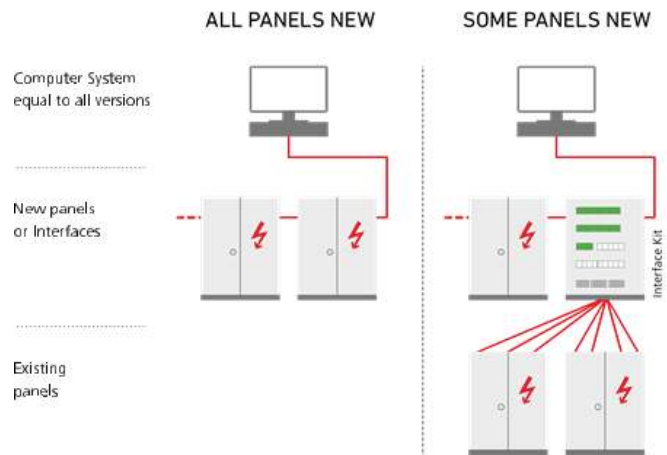
► EFFICIENT SERVICE AND SUPPORT

Remote support via secure VPN Internet
(We are with you at your need to ensure your

► AVAILABLE RETROFIT OPTIONS :

We have two different variants available for the retrofit.

1. Complete replacement of existing panel with new panel & interfaces.
2. Adding new interface kit with your existing panel.



In many cases, technically overhauled plant control systems fail to meet current requirements in terms of spare parts availability, reliability, operating convenience, and traceability of the manufacture products. Ammann understands precise customer requirements.

Whether it be a partial or complete renewal of the entire process control system, Ammann offers comprehensive broad range of retrofitting packages

The large number of retrofit projects already undertaken on Ammann plants as well as third party manufacturers serves to underline our expertise. Short retrofitting times, maximum adaptability, modular orientated- expansion options are core characteristics of the future Ammann as1 retrofitting concept.



BECOME FUTURE READY WITH **AS1**



DECANTER

Bitumen Barrel Decanting and Storage system, Model BBD 2x10, rated 3.6 TPH

Type: Stationary Bitumen Barrel Decanting and storage system.

Capacity : 3.6 Tons per Hour with a heat input of 200 000 KCAL/HR and outlet temperature of 110° C.

Fully insulated system complete with internal tubes for hot oil heating.

Operations : Fully Hydraulic loading arrangement for barrel charging.

The system is suitable for barrel size 980 ± 10 mm (L) x 500 mm $\pm$ 2mm (D).

The Barrel material quality must be as per IS:3575 means the body and drums shall be made from steel sheets of 0.63mm confirming to IS:513 and/or IS:1079

The capacity is based on melting temperature of 110° C.

When output temperature required is higher than 110° C, or ambient is lower than 25° C the production capacity drops proportionately.

Barrels should be clean and should not be covered with dirt.

The capacity is rated for use along with a hot oil heater

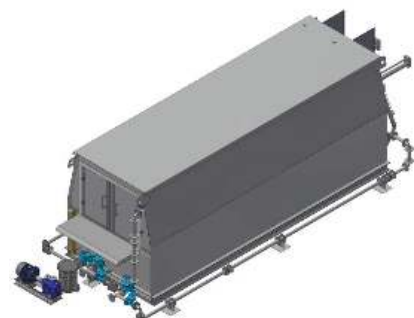
with a minimum capacity of 200 000 KCAL/HR. Capacity is strictly dependent on the thermal input from the hot oil heater.

Unit shall be supplied with one asphalt transfer pump, hydraulic power pack unit, temperature & level indicators. System shall have a surge storage capacity of 8 000 litres of bitumen.

System shall be supplied to handle 20 barrels at a time.

According to bitumen of VG-20 grade, the remarks above were made. If bitumen with a grade exceeding VG-20 is utilized, capacity will alter.

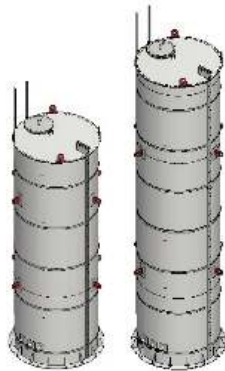
Suitable for 440 V, 50 Hz, 3 phase supply.



FO TANK 18K



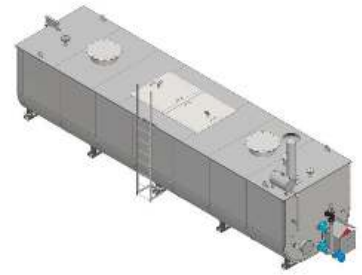
LDO TANK 18K / 25K



15 T " U "
Shaped Tank

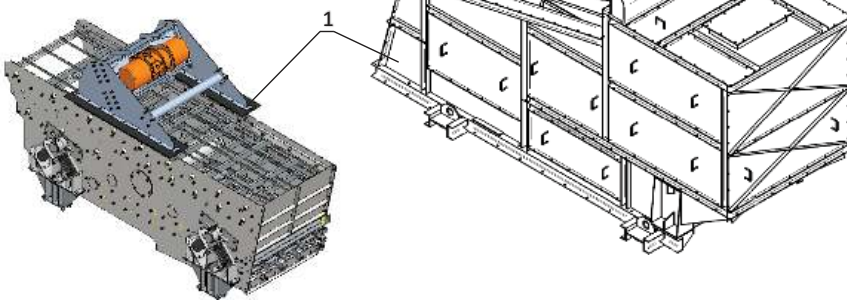


20 T " U "
Shaped Tank



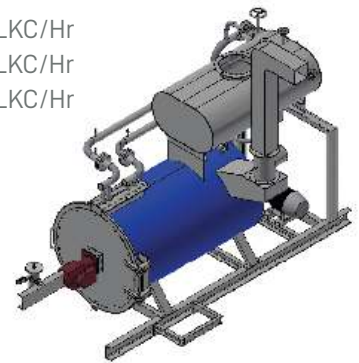
VIBRATING SCREEN

ANP 1500/2000



**Thermic Oil
Heating System**

- 3 LKC/Hr
- 5 LKC/Hr
- 6 LKC/Hr



20 T " U "

Direct Heating



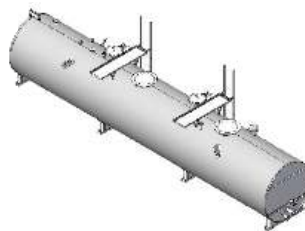
20 T " O "

Direct Heating



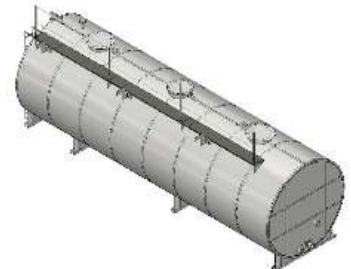
30 T " O "

Indirect Heating



50 T Bitumen Tank

Indirect Heating



Bitumen tank 30MT

" O " Direct Heating



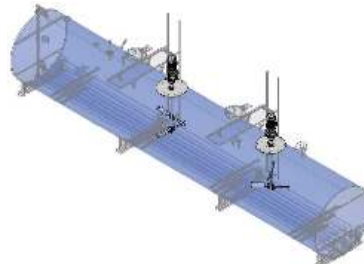
Bitumen tank 30MT

" U " Direct Heating



CRMB

with Stirrer / without Stirrer



SMA ECOTEC-120

Storage silo

Diameter : 2000 mm

Height : 3300 mm

Content : 5 m³

Silo with electro-pneumatically activated cover, suitable for feeding via BIG BAG.

Pneumatic conveyor device

Drive of ventilator : 4 kW

Drive of cell wheel sluice : 0.37 kW

Ducting, max. length : 30 m

Conveyor device consisting of ventilator, cell wheel sluice with feeder nozzle for the supply of granulates, supply pipe with cyclone to separate the conveying air from the granulates, and granulate storage silo with level probe at the end of the hoisting track.

Granulate dosing device with scale

Max. batch capacity : 30 kg

Number of load cells : 1

Drive of cell wheel sluice : 0.37 kW

Dosing device consisting of cellular wheel sluice with electro-pneumatically activated shut-off flap, weighing bin mounted on load cells, fabric compensators and electro-pneumatically activated bottom discharge with discharge pipe.

Note:

SMA material must be as pre below characteristics only.

Burning point: no indication

Ignition Temperature : ca. 500°C

Decomposition temperature : 200 °C

Melting point : No indication

Pellet length : 2-8 mm

Pellet size : 3-5 mm

Bulk density : 440-510 kg/m³



SPECIAL AGENT ADDITION ASSLY. 5M3

Storage silo

Diameter : 2000 mm

Height : 3300 mm

Content : 5 m³

Silo with electro-pneumatically activated cover, suitable for feeding via BIG BAG.

Pneumatic conveyor device

Drive of ventilator : 4 kW

Drive of cell wheel sluice : 0.37 kW

Ducting max. length : 30 m

Conveyor device consisting of ventilator, cell wheel sluice with feeder nozzle for the supply of granulates, supply pipe with cyclone to separate the conveying air from the granulates, and granulate storage silo with level probe at the end of the hoisting track.

Granulate dosing device with scale

Max. batch capacity : 30 kg

Number of load cells : 1

Drive of cell wheel sluice : 0.37 kW

Dosing device consisting of cellular wheel sluice with electro-pneumatically activated shut-off flap, weighing bin mounted on load cells, fabric compensators and electro-pneumatically activated bottom discharge with discharge pipe.

Note:

SMA material must be as pre below characteristics only.

Burning point : No indication

Ignition Temperature : ca. 500°C

Decomposition temperature : 200 °C

Melting point: No indication

Pellet length : 2-8 mm

Pellet size : 3-5 mm

Bulk density : 440-510 kg/m³



SPECIAL AGENT ADDITION

for 100T RMS ABA

Storage silo

Diameter - 2000 mm

Height - 3300 mm

Content - 5 m³

Silo with electro-pneumatically activated cover, suitable for feeding via BIG BAG.

Pneumatic conveyor device

Drive of ventilator - 4 kW

Drive of cell wheel sluice - 0.37 kW

Ducting, max. length - 30 m

Conveyor device consisting of ventilator, cell wheel sluice with feeder nozzle for the supply of granulates, supply pipe with cyclone to separate the conveying air from the granulates, and granulate storage silo with level probe at the end of the hoisting track.

Granulate dosing device with scale

Max. batch capacity - 30 kg

Number of load cells - 1

Drive of cell wheel sluice - 0.37 kW

Dosing device consisting of cellular wheel sluice with electro-pneumatically activated shut-off flap, weighing bin mounted on load cells, fabric compensators and electro-pneumatically activated bottom discharge with discharge pipe.

Note:

SMA material must be as pre below characteristics only.

Burning point: no indication

Ignition Temperature: ca. 500°C

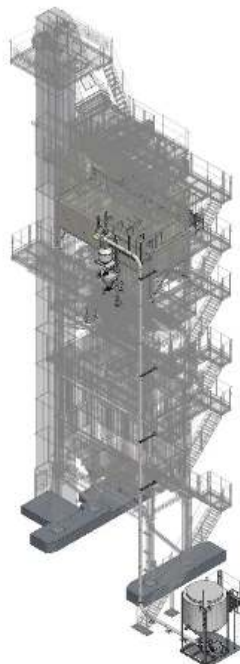
Decomposition temperature: 200 °C

Melting point: No indication

Pellet length: 2-8 mm

Pellet size: 3-5 mm

Bulk density: 440-510 kg/m³



PLASTIC ADDITION'S ECO TECH

Manual plastic addition

Buffer hopper capacity : 50 kg @ 0.1 gm/cm³

Weighing hopper capacity : 31 kg @ 0.1 gm/cm³

Characteristics of material HDPE : Melt - flow index is 0.02-9.0 gm/10 min

Characteristics of material LDPE : Melt - flow index is 0.14-58 gm/10 min

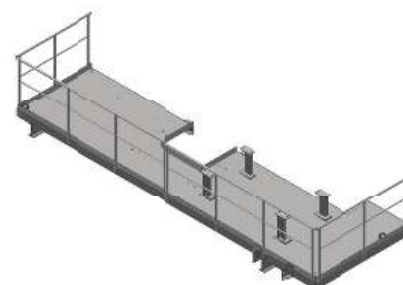


DRUM Shell

- DRUM Shell Drummix 120
- Drum Sheel Flight Drummix 120
- DRUM Shell Drummix 60 with Flight
- DRUM (DMX60/DM90) DRUM SHELL



Platform For Special Agent



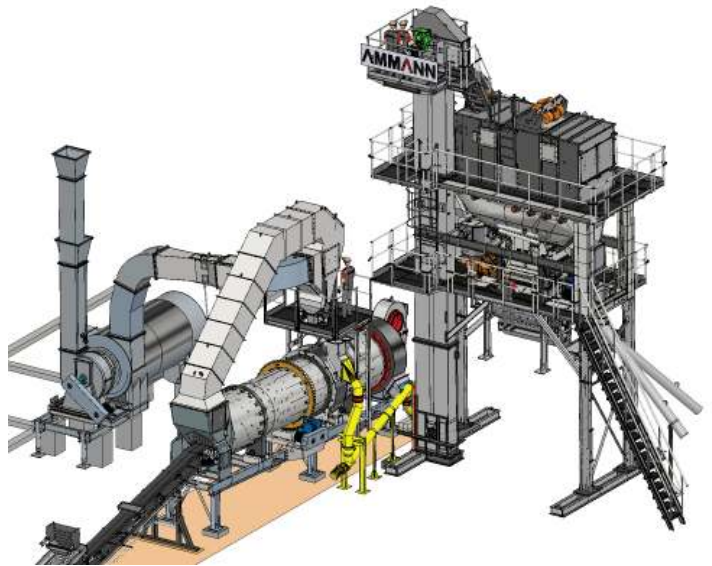
CFD TO BATCH-MIX PLANT

UPGRADE FOR THE FUTURE

Experience enhanced efficiency with AMMANN's retrofit solution, transforming Drum-mix plants into high-performance Asphalt batch mix plants. Boost productivity and sustainability by retrofitting.

► FEATURES

- The lowest product life cycle cost of all plants in this segment.
- Fully modulating burner with simple and easy to adjust mechanism to set air to fuel ratio for efficient combustion and pollution control.
- A screen that uses robust vibratory motors, enabling uniform distribution of aggregate on the screen mesh surface.
- Direct coupled geared motors at most places that reduce fuel and maintenance costs.
- A future-ready design that enables the seamless addition of upgrades.
- Remote assist that is available at any location in the world.
- Customised options that include utilisation of up to 40-45% RAP



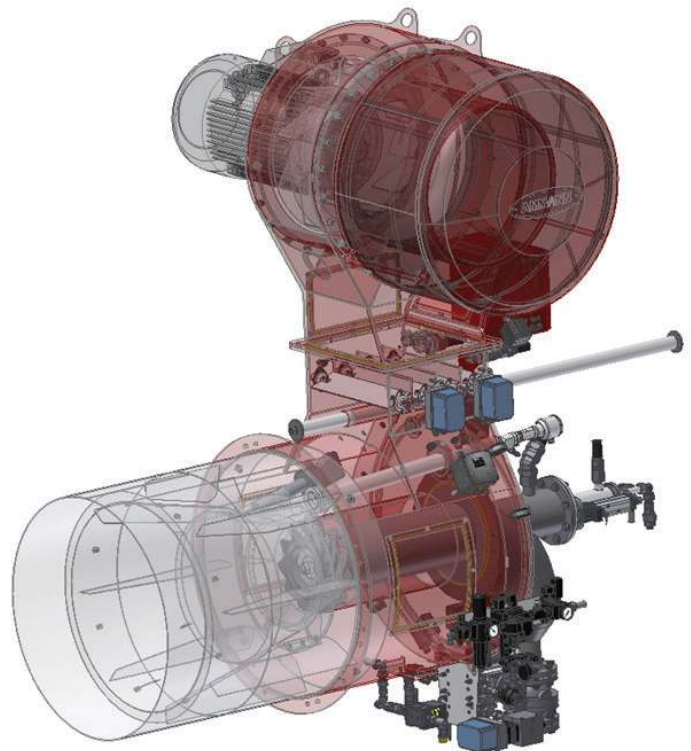
MULTI FUEL BURNER

Ammann asphalt plants are equipped with advanced multi-fuel burners, designed for efficient and flexible heating of aggregates. These burners can operate on a variety of fuels, including diesel, heavy oil, natural gas, and coal, offering adaptability based on fuel availability and cost efficiency.

Engineered for precise combustion, they minimize energy consumption while meeting stringent environmental standards for reduced emissions. With automated controls and durable construction, Ammann multi-fuel burners ensure reliable performance and ease of operation. Their innovative design guarantees optimized heating, contributing to high-quality asphalt production.

► FEATURES

- High life expectancy
- Dust burning without pilot flame
- Available with simultaneous firing
- Compact and robust
- High standardization level
- Complete Hydraulic and pneumatic units can be changed easily
- Leakage control from outside
- Control system FMS (CMS expected) realizes any time the operating condition





DISTRIBUTION AND SERVICE NETWORK AMMANN INDIA

- MANUFACTURING FACILITY AND CENTRE OF COMPETENCE
- SALES AND SERVICE OFFICES
- WAREHOUSES
- AMMANN ACADEMY - TRAINING CENTRE

1 MANUFACTURING FACILITY AND CENTRE OF COMPETENCE

24 SALES AND SERVICE OFFICES

7 CUSTOM DESIGNED PACKAGES FOR MACHINES AND PLANTS SUPPORT

200+ TRAINED ENGINEERS AND TECHNICIANS ACROSS INDIA

Ammann India Private Limited

Block No 157, At Ditasan, P.O. Jagudan, State Highway, Mehsana, Gujarat-384460, India
Toll-free: 1800 258 2233, info.ain@ammann.com
www.ammann.com

