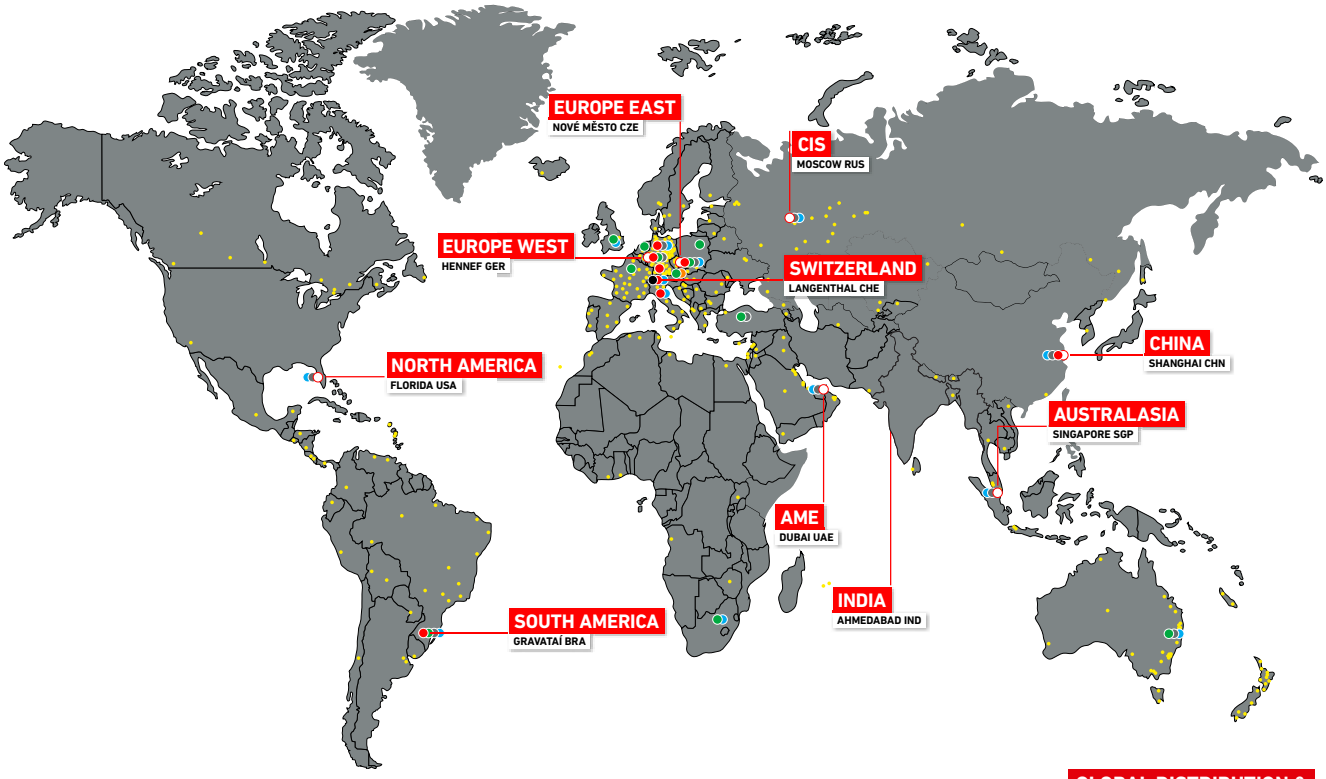
# APOLLO
# DRUMMIX & WETMIX

## CONTINUOUS ASPHALT MIXING PLANTS



# AMMANN GROUP WORLDWIDE




## LEADING FOR GENERATIONS

Ammann is a world-leading supplier of mixing plants, machines and services to the construction industry with core expertise in road building and transportation infrastructure.

The family-owned company has enjoyed international success since 1869. Hans-Christian Schneider, current Ammann CEO, is the sixth generation to run the business.

Much has changed in the 150 years of Ammann history. Technology continues to evolve and the plants and machines deliver productivity that wasn't even dreamed of in 1869. The company now has a global reach and expansive product line.

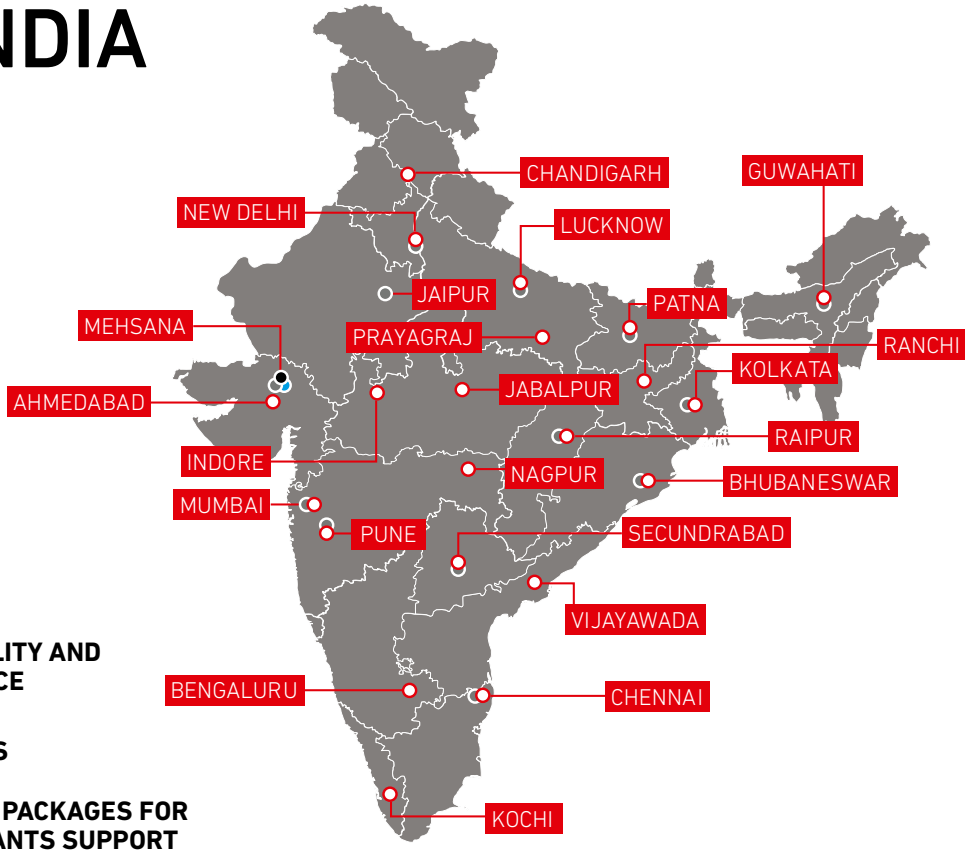
What hasn't changed is Ammann's commitment to its customers, employees, and innovative solutions.

**GLOBAL DISTRIBUTION & SERVICE NETWORK**

- HEADQUARTERS
- REGIONAL SALES OFFICES
- SUBSIDIARIES
- AGENCIES & SLES PARTNERS
- MANUFACTURING FACILITIES & CENTRE OF COMPETENCE
- GLOBAL RETROFIT CENTRE
- WAREHOUSES
- TRAINING CENTRES



# AMMANN INDIA




**1** **MANUFACTURING FACILITY AND CENTRE OF COMPETENCE**

**23** **SALES AND SERVICE OFFICES**

**7** **CUSTOM DESIGNED PACKAGES FOR MACHINES AND PLANTS SUPPORT**

**200+** **TRAINED ENGINEERS AND TECHNICIANS ACROSS INDIA**

**PLANTS**



CONCRETE BATCHING PLANTS
ASPHALT MIXING PLANTS

**MACHINES**



SOIL COMPACTORS, TANDEM ROLLERS, CONCRETE PUMPS, WHEELED & TRACKED PAVERS





## DISTRIBUTION AND SERVICE NETWORK AMMANN INDIA

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

Ammann India, Mehsana

# DRUMMIX 60–120

## PARALLELFLOW ASPHALT DRUM MIX PLANT

With decades of asphalt mixing expertise and over 2400 plants installed, Apollo has perfected continuous asphalt mixing technology. Worldwide, Apollo Drum Mix plants have produced millions of tons of high-quality asphalt.

Known for superior mix, low operating costs, productivity, efficiency, and high uptime, Apollo plants set industry benchmarks.

### COLD AGGREGATES BIN FEEDERS

The bins are all welded and modular in construction, permitting easy addition of bins to meet growing needs. Steep bin walls and valley angles allow free flow of aggregate from the feeders minimizing hold up of materials in the corner and bridging with sticky aggregates.

The bins supplied with adjustable calibrated gate openings and variable speed feeders drive, together offers total proportional control, greater flexibility and accuracy of operations.proportional control, greater flexibility and accuracy of operations.

### THERMODRUM UNIT

The drying and mixing unit of the asphalt plant requires advanced flight design and heat transfer technology. Our Thermodrum has been continually refined through R&D and the latest design upgrades.

It uses a triple heat transfer system—conductive, convective, and radiant—ensuring complete heat transfer to aggregates, resulting in higher productivity and reduced fuel consumption. The optimized flight design guarantees total heat transfer, efficient mixing and coating, reduced emissions, and prevention of bitumen oxidation.

Plants of 60–90 t/h are equipped with a maintenance-free cradle-type drum drive, while auto lubrication ensures proper chain drive lubrication for long, trouble-free service. The 120 t/h model features a four-wheel friction drive. Precisely engineered sprockets, trunnion rings, and rollers deliver flawless drum operation and consistent high productivity.

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### BURNERS

The high-pressure atomized, fully automatic, remote-controlled burner unit is renowned for its fuel efficiency, simple operation, and high uptime. Advanced automatic process control with system interlocks ensures compliance with the highest safety standards.

### BENEFITS AT A GLANCE

- Simple operation with superior efficiency, productivity, and uptime
- Low investment and reduced operating costs
- Compliance with country-specific electrical, mechanical and safety standards
- Easy to relocate and transport within permissible dimensions



Drum Mix – simple in design, superior in cost efficiency

# OVER 200+ UNITS IN OPERATION





## CONTROLS

Apollo plants are equipped with a fully computerized, air-conditioned control cabin featuring an integrated electrical power console, distribution switchboard, and fully automatic process and sequence controls. The system uses simple function and numeric keys, requiring no special skills to operate.

The user-friendly software ensures reliability and peak performance with:

- Fail-safe power interlocks and automatic process controls
- Online fault detection
- Integrated online printing facility
- Options to store, print, and edit production data and mix proportions
- Display of all process parameters
- Auto / manual operating modes

## WET DUST COLLECTOR

Apollo offers the CV Series venturi-type wet dust collector, designed to effectively maintain environmental standards in specified areas. Its high-turbulence venturi design ensures efficient capture of dust-laden exhaust gases.

Large stainless-steel spray nozzles guarantee clog-free performance with minimal water consumption, while the adjustable venturi throat allows precise tuning for optimum cleaning efficiency to suit specific plant requirements.

## CONTINUOUS ELECTRONIC BELT WEIGHING SYSTEMS

The state-of-the-art SCADA system manages and meters mix proportioning, while load cell feedback is processed by the PLC to automatically regulate and control bitumen and filler proportioning.







## BITUMEN INJECTION

A high-capacity, hot-oil-jacketed gear pump, driven by an AC variable speed drive, accurately meters and injects bitumen into the Thermodrum mixing section. The fully automatic SCADA system ensures precise control and consistency.

## FILLER SILO

Apollo provides a wide range of filler storage and feeding solutions (1.5–28 cum), tailored to suit diverse site requirements. A variable-speed, computerized, synchronized metering system ensures accurate proportioning in the mix.

## HOT MIX SILO

Apollo provides a complete range of customized asphalt storage solutions. The standard range includes silos with 14 to 28 cum capacity in MONOPAK and TWINPAK designs, while customized MULTIPAK options offer flexible storage combinations.

All silos come with automated safety controls, process interlocks, and can be equipped with swiveling load-out conveyors.

## DRAG SLAT CONVEYOR

The drag slat conveyor is the international standard for conveying hot mix, offering advantages over traditional belt conveyors. Fully enclosed to prevent heat loss, it moves material by scraping, ensuring even the fines—essential for proper bonding—are retained and conveyed. The drag slat can deliver mix directly into trucks or into the hot mix silo and is equipped with a gob hopper for efficient handling.

## BITUMEN HEATING & STORAGE SOLUTION

Customers can choose between direct heating or hot oil–heated bitumen storage tanks, with capacities ranging from 15–50 KL. Indirect heating tanks are equipped with a thermic oil heater, while direct heating tanks come with an automatic pressure jet burner. All bitumen tanks are fitted with automatic thermostatic controls and level indicators.





# DRUMMIX TECHNICAL SPECIFICATIONS

| PLANT TYPE | 60 | 90 | 120 |
|---|---|---|---|
| **Continual plant capacity at 3 % moisture*** | 60 t/h | 90 t/h | 120 t/h |
| **Continual plant capacity at 5 % moisture*** | 40 t/h | 60 t/h | 90 t/h |
| **Number of cold feeders** | 4 | | |
| **Content cold feeders** | 5 $m^3$ each bin with extension plates | 6.25 $m^3$ each bin with extension plates | 8 $m^3$ each bin with extension plates |
| **Auxiliary conveyor belt and drive** | 450 mm width 1.1 kW × 4 nos = 4.4 kW | 450 mm width 1.5 kW × 4 nos = 6 kW | 450 mm width 2.2 kW × 4 nos = 8.8 kW |
| **Gathering conveyor belt and drive** | 500 mm × 22.4 m / 2.2 kW | 500 mm × 22.4 m / 2.2 kW | 500 mm × 22.4 m / 2.2 kW |
| **Bin vibrator motor** | 0.18 kW | | |
| **Oversize removal screen mesh and drive** | 45 × 45 mm / 0.18 kW | | |
| **Slinger conveyor belt and drive** | 500 mm / 3.7 kW | | |
| **Type drying drum** | Cylindrical, inclined parallel flow | | |
| **Diameter / length** | 1200 / 6000 mm | 1500 / 6700 mm | 1800 / 7300 mm |
| **Drum drive** | Cradle type chain drive / 15 kW | Cradle type chain drive / 18.5 kW | Cradle type chain drive / 30 kW |
| **Burner power output** | 2.58 mWh | 4.65 mWh | 7.95 mWh |
| **Fuels** | Standard burner for LDO / Diesel and heavy oil as an option. | | |
| **Pollution control unit / Primary multicone** | 20 nos of cone / dry dust collector screw drive 1.1 kW; 18000 $m^3/h$ @15 kW | 15 nos of cone / dry dust collector screw drive 1.1 kW; 24500 $m^3/h$ @18 kW | 21 nos of cone / dry dust collector screw drive 1.1 kW; 28000 $m^3/h$ @30 kW |
| **Load-out conveyor capacity** | 60 t/h | 90 t/h | 120 t/h |
| **Load-out conveyor belt width** | 500 mm | 600 mm | 600 mm |
| **Load-out conveyor drive** | 3.7 kW | 5.5 kW | 5.5 kW |
| **Gob hopper capacity** | 1.0 t | 1.5 t | 2.0 t |
| **Gob hopper drive -Hydraulic power pack** | 3.7 kW | 3.7 kW | 3.7 kW |
| **Filler supply** | Mineral filler tank capacity 1.5 $m^3$, Drive 1.5 kW. Air compressor 5.5 kW. Other sizes and types on request. | | |
| **Optional accessories** | | | |
| **Wet dust collector CV / Optional** | WATER PUMP 3.7 KW AND EXHAUSTER 24500 $M^3/H$ @18.5 KW | WATER PUMP 3.7 KW AND EXHAUSTER 26000 $M^3/H$ @22 KW | WATER PUMP 3.7 KW AND EXHAUSTER 30000 $M^3/H$ @37 KW |
| **Drag slat conveyor capacity** | 100 T/H | 100 T/H | N/A |
| **Hot mix storage silo** | 50 t | 50 t | N/A |
| **Bitumen tanks** | 20 kl / 30 kl Horizontal type. Direct heating / Hot oil heating. Other sizes and types on request. | | |
| **Recycling addition** | - | Yes | Yes |
| * Hot mix production capacity based on following conditions: 5 % bitumen and 3 % filler addition, input moisture of aggregates 3 %, hot mix temperature of 150 °C. | | | |
| Per Apollo's policy of constant upgradation of products, specifications are subject to change without prior notice. | | | |

# WETMIX 100-250

## WET MIX MACADAM PLANT

### SUPERIOR QUALITY, LOWER COSTS

Apollo Wet Mix 100–250 plants deliver superior quality while keeping investment and operating costs low. Consistent quality is ensured through advanced anti-segregation features, including thorough, uniform mixing. Hydraulic clamshell gates and fast-discharging storage silos further reduce segregation.

Low ownership costs are achieved with wear-resistant steel paddle arms and tips, while heavy-duty bearings extend shaft life and ensure a homogenous mix. User-friendly controls make operation simple and efficient for operators of all experience levels.

### COLD-AGGREGATE BIN FEEDERS

The cold-aggregate bin feeder system is designed with steep walls and angles to ensure smooth material flow and consistent feed rates, eliminating bridging or blockages.

Calibrated adjustable gates enable accurate control of material discharge, while belt feeders with fixed or variable speed drives adapt to varying production needs and material types. Its modular, expandable design allows easy addition of bins, providing flexibility for future growth.

### WATER TANK AND METERING

The water tank and metering system ensures reliable water management with surge capacity to maintain steady supply during peak demand.

A self-priming pump provides consistent flow with low maintenance, while a precision control valve and spray bar with integrated flow meter guarantee accurate distribution and metering.

This advanced system delivers precise moisture control for uniform mix quality and performance.

### ANTI-SEGREGATION GOB HOPPER

The anti-segregation gob hopper supports uninterrupted operation by allowing direct discharge into trucks without halting production, maximizing efficiency and output.

Its smart design minimizes spillage, reducing material loss and keeping the site clean. Hydraulic clamshell gates ensure controlled release, preventing segregation and maintaining uniform mix quality throughout the discharge process.

### BENEFITS AT A GLANCE

- Lowest capital & operation costs
- Robust construction with trusted standard components
- Consistent mixing and segregation-free material delivery
- Fully integrated control panel
- Surge-capacity water tank
- Reliable self-priming pump
- Nationwide sales and service network

> "Advanced mixing technology that ensures outstanding quality at unmatched cost efficiency for every project."

### STORAGE SILO

Built with a robust structure to handle operational demands and varying site conditions, the storage silo ensures long-term durability and reliability. Its modular design allows for quick setup and easy relocation between job sites, helping reduce installation time and transport costs. Engineered for rapid discharge, the silo speeds up truck loading to enhance overall productivity, while its design minimizes segregation, ensuring consistent mix quality during both storage and discharge.

### PUG MILL UNIT

The pug mill unit delivers fast, continuous, homogeneous mixing, ensuring consistent product quality. Heavy-duty anti-friction bearings provide smooth operation and extended service life, minimizing downtime. Wear-resistant steel construction on paddle arms ensures exceptional durability, while reversible paddle arms reduce maintenance costs by allowing operators to reverse wear patterns.

# WETMIX TECHNICAL SPECIFICATIONS

| PLANT TYPE | 100 | 200 | 250 |
|---|---|---|---|
| **Rated Output** | 100 t/h | 200 t/h | 250 t/h |
| **FOUR BIN FEEDER** | | | |
| **No. of Bins* / Total Capacity** | 4 nos. / 26m$^3$ | 4 nos. / 32m$^3$ | 5 nos. / 40m$^3$ |
| **Charging Width** | 2.8 mtrs | | |
| **Auxilliary drive motor** | 1.1 kW | | |
| **Gathering conveyor belt (W x L)** | 600 x 30 400 mm | | |
| **Gathering drive motor** | 5.5 kW | | |
| **Bin vibrator** | 0.18 kW | | 0.18 kWx 2 nos. |
| **Feeder capacity** | 120 t/h | 225 t/h | 260 t/h |
| **OVER SIZE REMOVAL SCREEN** | | | |
| **Mesh size** | 65 x 65 mm | | |
| **Drive motor** | 0.75 kW | | |
| **CHARGING CONVEYOR** | | | |
| **Conveyor belt (W x L)** | 500 x 16 780 mm | 600 x 16 780 mm | |
| **Conveyor drive motor** | 3.7 kW | 5.5 kW | |
| **PUG MILL** | | | |
| **No. of paddle arms** | 26 | 44 | 64 |
| **Drive motor** | 18.5 kW | 45 kW | |
| **Capacity** | 1.62 m$^3$ | 2.4 m$^3$ | |
| **WATER TANK** | | | |
| **Capacity** | 18 m$^3$ | | |
| **Drive motor** | 1.5 kW | 3.7 kW | |
| **LONG LOAD OUT CONVEYOR WITH STORAGE SILO (WETMIX 200 & 250)** | | | |
| **Belt (W x L)** | 600 x 17 900 mm | - | |
| **Drive motor** | 5.5 kW | | |
| **Gob hopper capacity** | 2t | - | |
| **Hydraulic power pack** | 3.7 kW | | |
| **OPTIONAL ITEMS** | | | |
| **Filler silo capacity** | 1.5, 7.5, 18, 75 m$^3$ | | |
| **Filler silo connected load** | 4.5 kW | | |
| **Total connected load** | 82.5 KVA | 80.8 KVA | 88.3 KVA |
| **Open load requirement** | 50 x 35 mtr | | |
| Offer for capacities over 250 t/h on request. | | | |
| Per Apollo's policy of constant upgradation of products, specifications are subject to change without prior notice. | | | |

# OVER 350+ UNITS IN OPERATION





Ammann India Pvt Ltd
Block No. 157, At. Ditasan
P.O Jagudan State Highway, Mehsana
Gujarat, India- 384460
Phone: +91 27 626 62 200
E-mail: info.ain@ammann.com

**Toll Free: 1800 258 2233**

For additional product information
and services please visit:
**www.ammann.com**

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