

ApolloTM

Quality Construction Equipment



OVER
210
INSTALLATIONS



ASPHALT BATCH MIX PLANT

ANP Series 60 - 240 tph



TUV NORD
★ Star Export House



Apollo has always been proactive in rising to customer demands and expectations by providing quality engineered products and services. Reliability, consistency, efficiency, lower maintenance & operating costs are the hallmark of Apollo products, which add value for money.

Continuous improvement in quality and up-gradation of technology has been the key to Apollo's success and an enviable customer base.

ASPHALT BATCH MIX PLANT

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DRYING DRUM

The ANP series asphalt plants are renowned for their high efficiency and low maintenance Drying Drum. The field proven flights together with an additional amount of drying volume places the ANP drying drum in its own class.

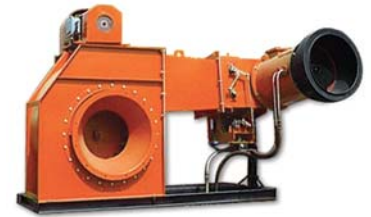
The special drying flight design, a result of the 40+ years experience and R & D, ensures the highest thermal transfer efficiency by allowing specifically designed flights to transfer the heat by radiation, convection and conduction, transferring uniform heat to all different sizes of aggregates.

The drum is equipped with four wheel drive and it features a unique air preheat system, which improves drying efficiency, aid power saving, reducing the thermal stresses on the drying drum and noise emissions from the burner.

ANP plants are supplied with a proven Japanese burner design, which has already gained a reputation for its fuel efficiency and lower emissions. The burner meets the strictest working demands, thanks to its automatic controls and wide turndown ratio.



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BATCHING TOWER

The inclined circular motion vibrating screens with patented vibrating screen cloth design, contribute to top notch performance. The free-floating screen design prevents any vibration from being transferred to the weighing scales. A wider platform with easy access eases the maintenance of the screens.

Highly reliable weighing system with low maintenance load cells and an easy calibration system makes the ANP series highly popular with the site engineers and plant operators.

The 3 D mixer unit is the heart of the ANP plants and has a large live zone, realizing a quick and even mixing of asphalt. The mixer unit is hot oil jacketed and supplied with a low-maintenance oil-bath type chain drive.

The paddles, arms and tips are made of wear resistant High Nickel Hardened cast alloy steel. The reversible design of the mixer internals ensures a lower operating cost.

Hot stone bin sampling trays and a complete batching tower dust scavenging are standard in all the ANP series plants.



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COLD AGGREGATE BIN FEEDERS

Years of experience and an installed base of around 2000 units means design expertise for top performance even under the toughest of operating conditions.

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 aggregates from the feeders minimizing hold-up of materials in the corners and bridging with sticky aggregates. The bins supplied with adjustable calibrated gate openings and variable speed feeder drives together offer a total proportional control, greater flexibility and accuracy of operations.



POLLUTION CONTROL UNIT

The ANP series plants are supplied with a standard dual stage pollution control system, comprising of a twin cyclonic separators and a secondary bag house filter.

All ANP series plants are supplied with "Freedom", a state-of-the-art free air flow type bag house filter unit. Freedom Bag house filters are envied in the industry for their guaranteed savings on power, lower maintenance, trouble-free service and strict conformance to stringent environmental norms.

Highlights

- Emission less than 50 mg / Nm³
- Lower Dust loads on bag house filter
- Longer bag filter life, due to reduced dust loads
- Zero Maintenance design
- Power savings
- Filler recycling



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CONTROL SYSTEM

Fully computerized air-conditioned control cabin, with on-board electrical power control console, distribution switch board, fully automatic process and sequence controls are a standard on all ANP series plants.

User-friendly software on the computer with a parallel PLC man machine interface gives you total reliability and ensures top notch performance.

- Fail proof power interlocks and auto process controls
- Online fault detection with remote connectivity and solution
- Docket printing and inventory management
- Provisions to print, store and email production details, mix proportions, etc.
- Automatic cold aggregate feeder controls linked with mix design and hot bin levels
- Automatic free fall compensation

The control is equipped with function keys and numeric keys, and does not require special skills for operation. The operator can monitor the complete process control, motor status and pneumatic controls through the colour CRT display.

OPTIONALS

HOT MIX SILO

Apollo offers a complete range of Hot mix storage solutions (20 - 320 tons), to meet plant requirements. Customers can choose from inline surge silos to skip-winch assisted hot mix storage silos.

Hot mix storage silos can be offered with options to store different types of mix designs to meet varied site demands.

All the ANP series silos are supplied with state-of-the-art fully automatic controls together with automated safety and un-interrupted productivity.

Savings

By opting for a hot mix silo customers gain large benefits :

- Achieve increased efficiencies through longer continuous production runs.
- Fuel savings - thanks to the uninterrupted and constant dryer drum burner operations.
- Helps cater to clients with different mix design requirements.
- Reduce the number of mix transporting trucks.



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BITUMEN HEATING AND STORAGE SOLUTIONS

With Apollo, customers can opt for direct heating type bitumen storage tanks or hot oil heated bitumen storage tanks. Storage capacity ranges from 15 to 50 tons.

The indirect heating tanks are supplied with a Japanese design thermic oil heater. The direct heating tanks are supplied with automatic imported pressure jet burner. As a standard all Apollo tanks are supplied with auto thermostatic controls and level indicators.

THERMIC OIL HEATER

The ANP series plants are supplied with hot oil jacketing on bitumen pipe line, asphalt pump, bitumen weigh hopper section and pug mill body. Opting for hot oil heating reduces asphalt pump binding, asphalt pipeline blocking, smoother bitumen weigh batcher and pug mill operations.

The thermic oil heaters are supplied with auto temperature controls to maintain precise bitumen temperature.

The Thermic oil heater is supplied with independent automatic control panel including oil temperature indicator controller, low level switch, low circulation pressure switch, over temperature cut off thermostat burner control relays and burner operating circuits. Capacity range : upto 500,000 kcal/hr.

FILLER FEEDING AND STORAGE SOLUTIONS

Apollo offers a wide range (4 - 50 Tons) of reclaim and foreign filler storage solutions. The filler from the silo is transported into the filler elevator on the batching tower, which then is weighed and mixed in the pug mill unit.

The filler silos can optionally be supplied with filler feeding bucket elevator to suit bagged filler feeding. As a standard the filler silos are supplied with level indicators and process interlocks.



WORLD CLASS TECHNOLOGY

Apollo has over 40 years of experience in the design, manufacture and after sales-support of equipment for the Road Construction Industry. Over the years, Apollo has consistently brought in world-class technology to suit customer needs. With state-of-the-art manufacturing facilities, high quality raw material, ISO certified process and a team of trained committed manpower, Apollo delivers top quality products and services.

Apollo believes in growth through a continuous improvement programme, total quality management and above all being "close to the customer" at all times.

At Apollo a sale is just the beginning of a long-standing business relationship, one more step in achieving our objective of customer delight.



ANP 2000, Algeria



ANP 3000, Saudi Arabia



ANP 1000, Bangladesh



ANP 1500, Uganda



ANP 2000, Kosova



ANP 1500, Australia



ANP 1500, Algeria



ANP 1200, Australia

TECHNICAL SPECIFICATIONS

Plant Model			ANP 1500	ANP 2000	ANP 2500	ANP 3000
	Plant Capacity @3% Moisture Content	tph	128	160	200	240
	Batch Size	kg	1600	2000	2500	3000
	Cycle Time	sec	45	45	45	45
Units						
Cold Feed Bins	No. of Bins*/ Capacity	nos / m ³	4 / 29.2	4 / 37.2	5 / 46.5	5 / 46.5
Charging Conveyor	Capacity	tph	140	180	220	260
Thermo Drum	Dryer (L x D)	mtrs	8 x 2.1	8 x 2.1	9 x 2.3	9 x 2.3
	Drive Type		4W Friction Drive			
Burner	Type		High Pressure, Fully Automatic, Modulating			
	Fuel		Diesel / Furnace Oil			
	Capacity	MW / hr	14.1	14.1	17.3	17.3
Hot Elevator	Capacity	tph	140	180	220	260
Tower Unit						
Filler Elevator	Capacity	tph	21	21	21	21
Screening Unit	Screening Method		Inclined Circular Vibration			
	No. of Deck		4	4	5	5
	Screening Capacity	tph	140	180	220	260
Hot Aggregate Bin Unit	No. of Bins		4	4	5	5
Weighing Unit	Aggregate Hopper Capacity	kg	1600	2000	2500	3000
	Filler Hopper Capacity	kg	300	300	400	400
	Bitumen Hopper Capacity	kg	225	225	300	300
Mixer Unit	Type		Twin shaft hot oil jacketed			
	Mixer Capacity	kg	1600	2000	2500	3000
	Bitumen Pump	lpm	800	800	1000	1000
Pollution Control Unit						
Primary	Type		Centrifugal Double Cyclone		Knock Out Box	
Secondary	Type		Bag House Filter			
	Bag House Filter		Reverse Air flow*			
	Filter Area	m ²	330	330	590	590
Control Panel	Type		Fully Computerized with manual over-ride			

* Options available

ACCESSORIES

Filler Silo	Capacity Range	m ³	3 / 7 / 11 / 18 / 28			
Bitumen Tanks	Capacity Range	m ³	15 / 25 / 30 / 50			
	Heating System		Direct heating / Thermic oil heating			
Thermic Oil Heater	Hot Oil Heater Capacity	kcal / hr	300000 / 500000			
Hot Mix Storage Silo	Capacity Range	m ³	12 - 200			

Offer for capacities under 128 tph on request.

Open Land Requirement 55 m x 55 m

With Apollo's policy of constant upgradation of products, specifications are subject to change without prior notice. Accessories shown are optional and not a part of standard supply.



India | Algeria | Australia | Afghanistan | Bangladesh | Botswana | New Caledonia
Dominican Republic | Dubai | Egypt | Ethiopia | Iran | Iraq | Kenya | Kosovo
Kuwait | Libya | Malawi | Malaysia | Maldives | Mauritius | Myanmar | Nepal
Nigeria | Oman | Pakistan | Russia | Sri Lanka | Sudan | Saudi Arabia | Senegal | Tahiti
Tanzania | Trinidad & Tobago | Tunisia | Uganda | Yemen | West Indies...

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One Source, Unlimited Possibilities...