

Asphalt Batch Mix Plant

AN ISO 9001 : 2008 CERTIFIED COMPANY



use the
machinery of
VINAYAK
making the
way to **success**

ABP Series : 80 to 160 tph



Vinayak 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 Vinayak products, which add value for money. Continuous improvement in quality and up-gradation of technology has been the key to Vinayak's success and an enviable customer base.



ASPHALT BATCH MIX PLANT

Model No. : ABP Series

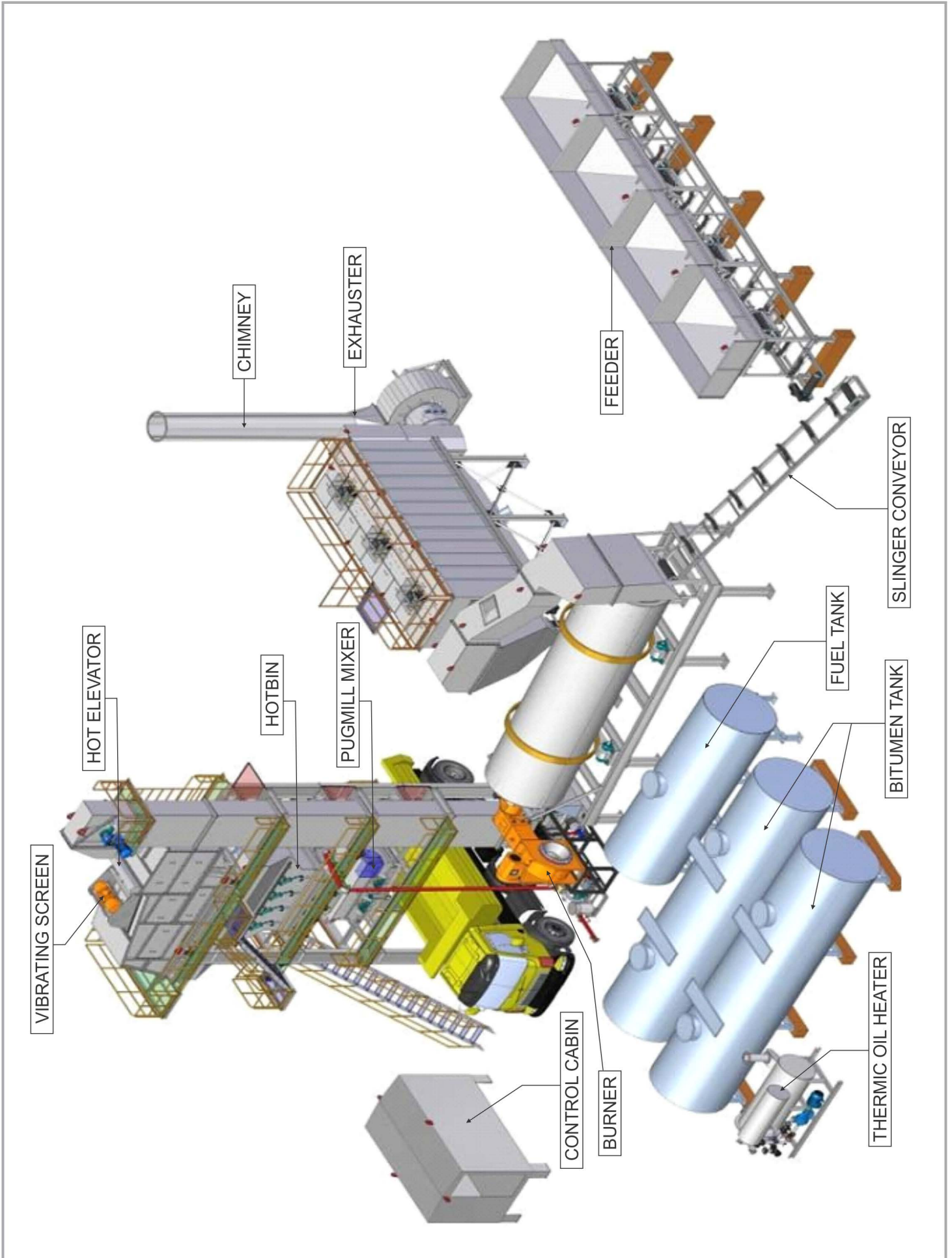
80 tph | 120 tph | 160 tph



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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 ABP series highly popular with the site engineers and plant operators. 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.

DRYING DRUM

The ABP 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 ABP drying drum in its own class. A unique air preheat system, which improves drying efficiency, aid power saving, reduces the thermal stresses on the drying drum and noise emissions from the burner.



BURNER UNIT

ABP 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.

POLLUTION CONTROL UNIT

The ABP 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 ABP 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.





COLD AGGREGATE 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 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.

BITUMEN HEATING AND STORAGE SOLUTIONS

With **Vinayak**, customers can opt for direct heating type bitumen storage tanks or hot oil heated bitumen storage tanks. Storage capacity ranges from 20 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 **vinayak**, tanks are supplied with auto thermostatic controls and level indicators.



THERMIC OIL HEATER

The ABP 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 : up to 5,00,000 / 6,00,000 kcal/hr.



FILLER FEEDING AND STORAGE SOLUTIONS

VINAYAK offers a wide range filler solutions. The filler from the silo is transported in to 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 interlocks.

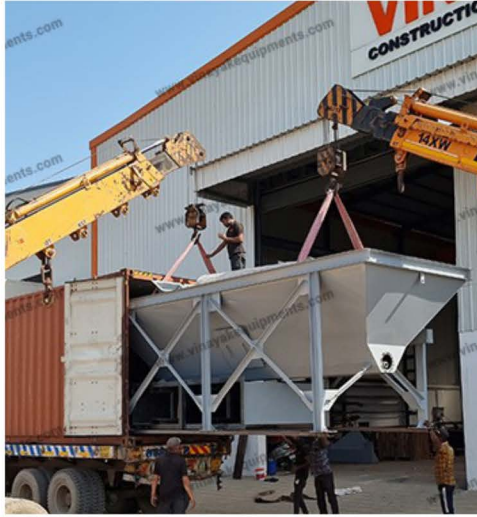


PLC CONTROL SYSTEM

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 ABP 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.



TECHNICAL SPECIFICATIONS

ABP MAIN PLANT

		ABP - 80	ABP - 120	ABP - 160
Plant Capacity @ 3 % moisture Content		80 tph	120 tph	160 tph
Cold Feed Bins	No. of Feeders */Total Capacity	4 / 25 m ³	4 / 37.5 m ³	4 / 43.75 m ³
Charging Conveyor	Capacity	100 tph	140 tph	180 tph
Dryer Drum	Diameter x Length	1.6 m x 6 m	1.8 m x 7 m	2.1 m x 8 m
	Drive Type	Saddle type chain drive		Four wheeled Friction drive
Burner	Capacity	6.5 MW	11.8 MW	13.6 MW
	Type	High pressure, Fully automatic, modulating		
	Fuel*	Diesel	Diesel	Diesel
Pollution Control Unit	Dual Stage Type			
Primary	Centrifugal Double Cyclone	1.4 m x 3 m	1.4 m x 3 m	1.4 m x 3 m
Secondary		Wet Dust Type*		Bag House Filter
	Bag House Filter	Reverse air flow type*		
	Filtering Area	285 m ²	390 m ²	435 m ²
Hot elevator	Capacity	100 tph	140 tph	180 tph
Screening Unit	Type	Four deck vibrating		
	Capacity	100 tph	140 tph	180 tph
Hot Aggregates Bin	Number of Bins	4	4	4
Aggregates Weigh Bin	Capacity	1000 kgs	1500 kgs	2000 kgs
Filler Weigh Bin	Capacity	200 kgs	300 kgs	300 kgs
Bitumen Weigh Bin	Capacity	150 kgs	225 kgs	225 kgs
Filler - Feeding System	Filler Elevator Capacity	14 tph	21 tph	21 tph
	Filler Storage Bin Capacity	0.4 m ³	0.6 m ³	0.6 m ³
Asphalt Feeding Pump	Capacity	240 lpm	450 lpm	450 lpm
Asphalt Spray Pump	Capacity	460 lpm	800 lpm	1000 lpm
Mixing Unit	Type	Twin shaft hot oil jacketed pugmill unit		
	Capacity	1000 kg / batch*	1500 kg / batch*	2000 kg / batch*
Cycle Time		45 secs.	45 secs.	45 secs.
Control Panel	Type	Fully computerised with manual over-ride		

* options available

ACCESSORIES

Filler Silo	Capacity	4 / 10 / 15 / 30 / 40 tons
Bitumen Tanks	Capacity	15 / 30 / 50 tons
Heating Type	Dierct / Hot Oil heating type	
Hot Oil Heater	Type	Normal pressure horizontal tubular boiler
	Capacity	500 000 Kcal / hr.
Hot Mix Storage Silo	Capacity	25 / 50 / 30 x 2 / 80 tons

• Offer for capacities over 160 tph on request.

Accessories shown are optional and a part of standard supply.

With Vinayak's policy of constant up gradation, of specifications are subject to change without prior notice.

Quality Assurance

We believe that client satisfaction comes from products that perform efficiently and reliably with least down time. We have adopted stringent quality assurance checks for every product, starting with the raw material. Our workforce is self motivated with every employee considering himself to be a Quality Inspector.

Design & Engineering

We our products are designed from basic principles. Past experience, field feed-back, innovation and application form important parameters in the design of our products.

After-sales-service

We offer you not only prompt and effective service, but also the complete range of original spares to help prevent any down time and consequent production and profit losses. We have earned on enviable reputation throughout the country for the excellence of our sales and service.

Unit Exported To More Than 35 Countries Worldwide

We have exported number of units to various countries, Repeat export orders speak of our quality & commitment towards customer satisfaction.



AFGHANISTAN



ALGERIA



ANDAMAN NICOBAR



BHUTAN



BANGLADESH



DJIBOUTI



ECUADOR



GUYANA



GHANA



IRAQ



KENYA



MALAWI



MOZAMBIQUE



MALDIVES



NIGERIA



NEPAL



OMAN



QATAR



PERU



TRINIDAD &
TOBAGO



SIERRA LEONE



SAUDI ARABIA



UAE



SRI LANKA



YEMEN

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VINAYAK[®]
ASPHALT & CONCRETE EQUIPMENT

VINAYAK CONSTRUCTION EQUIPMENTS

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FOR THE WORLD**

