

SYTECHS ASPHALT BATCH PLANTS

**EASY MAINTENANCE
FUEL EFFICIENT
HOMOGENEOUS MIXING**



**2 Years
Extended Warranty**

COLD BINS (FEED HOPPERS)



FEED HOPPERS (#4 COLD BINS)

Each bin having independent belt conveying system driven by AC variable speed motors synchronized with load cells for accurate and best weighing of aggregates (to minimize overflow of hot bins) . At the discharge end of gathering conveyor a single deck vibrating screen is provided for removal of oversized aggregates. This arrangement saves fuel and also eliminates the blockage of overhead chutes by oversized aggregates. The Dust bin is supplied with a electric vibrator to allow smooth flow of dust in high humid areas. The bins are supported on sturdy steel structure and loading mouth of 2.76m X 2.20m.

DRYER UNIT (THERMO INSULATED)



DRYER UNIT (THERMO INSULATED)

The Dryer drum is counter-flow dryer with four-wheel friction drives by shaft. It is fully insulated to prevent heat loss. Modulating type burner with simple operating mechanism maintains perfect air / fuel ratio resulting in perfect combustion of fuel. Consequently, High fuel efficiency and Environmental friendly are achieved.. The burner, giving high energy output with low fuel consumption is positioned in such a way that the flame direction creates a counter flow situation with heat control in all seasons. The proven flight design ensures a perfect distribution of the flow of aggregates. Replaceable internal lifting flights are designed to ensure optimum heat transfer from hot gases to aggregates. A suitable capacity separate service fuel tank is provided for dryer burner

MODULATING BURNER

MODULATING BURNER

A First Class Modulating Burner with turbojet proportioning pressure, atomized fully endorsed, capable of burning F.O. | Diesel or L.D.O. Our Burners are equipped with flame failure detectors and sequential auto controlled drums. The blower & exhaust are activated before ignition is on, or flame is produced. Suitable pumps and motors are selected for an efficient flow of fuel.. Gas burner is Optional.



BAG HOUSE FILTER UNIT



BAG HOUSE FILTER UNIT

Fine dust is absorbed by filter bag type air pollution control unit to meet the most stringent emission control levels with pneumatic bag cleaning system, Dust re-feeding to filler pneumatically or by bucket elevator through screw conveyor. It operates in forward-reverse mode

Fitted with safety devices for temperature control.

Bag house filters are envied in the industry for their guaranteed savings on power, lower maintenance, trouble free service and strict conformity to stringent environmental norms (International standard).

DUAL CYCLONE PRIMARY DUST COLLECTOR)



DUAL CYCLONE TYPE PRIMARY DUST COLLECTOR (HEADING DUST COLLECTING SYSTEM)

Coarse dust particles in aggregate are fully absorbed or controlled by damper before moving to hot aggregate bucket elevator. Smoke/ gas with fine dust particles are filtered by filter baghouse.

HOT BUCKET ELEVATOR (TWIN CHAIN)

TWIN LANE HOT BUCKET ELEVATOR

Twin lane chain and toothed sprocket at drive for bucket elevator ensures smooth operation of the entire elevator system. Eliminating unbalancing of buckets during heavy loads when plant is operated at full capacity. Double sprocket chain drive with four piece type fully covered box for easy installation on tower container frame. The hot aggregate bucket elevator is a totally enclosed chain driven system. Bucket tips are double reinforced for maximum durability. The elevator unit is electrically driven from the head shaft via a chain system. Sytechs bucket elevators are designed for long service life and easy maintenance access. The use of Super-tough wear resistant materials and a special entry chute design result in superior performance



4 DECK VIBRATING SCREEN

FOUR DECK VIBRATING SCREEN

Totally enclosed dust sealed housing, 4nos. discharge chute with removable rails and access for maintenance and mesh replacement. A properly sized motor vibrator to create linear motions which prevent the clogging of the screen by the flow of aggregates. The vibration amplitude of the screen can easily be adjusted by increasing or decreasing the weight of the fly-wheel on each end of the vibratory motor and high sieving efficiency for each type of aggregate is guaranteed.



TWIN SHAFT PUG MILL MIXER



PADDLE MIXER UNIT

The anti aging mixer is a double shaft pugmill type. The adoption of the circulation mixing system results in uniform mixing within a short time even with fine grain composition. Liners and tips of the mixer are made of Ni - Hard material and are of anti-abrasive cast alloy steel, ensuring long life and durability. The HR Steel linear plate (with temper hardening) and tips are easily replaceable. The dumper type discharge gate allows smooth discharge of mixture across the full width of the mixer. Pneumatically operated with full width discharge door.



THERMIC OIL HEATER

THERMIC OIL HEATER

Thermic oil heater (boiler) of suitable capacity Kcal./Hr provides efficient hot oil circulation with auto temperature control system to maintain precise asphalt temperature. The Hot oil circulates through the asphalt pump, asphalt pipeline, asphalt weighing hopper and mixing unit in suitable flow capacity supplied with service fuel tank forburne



BITUMEN STORAGE TANKS



BITUMEN STORAGE TANKS

Fully insulated Bitumen Storage tanks with efficient heating system through thermic fluid boiler and with jacketed bitumen pump station, insulated jacketed bitumen pipeline supply to bitumen weighing buckets, feeding through auto control valve.

The bitumen is automatically maintained at a constant temperature by the hot oil heater.



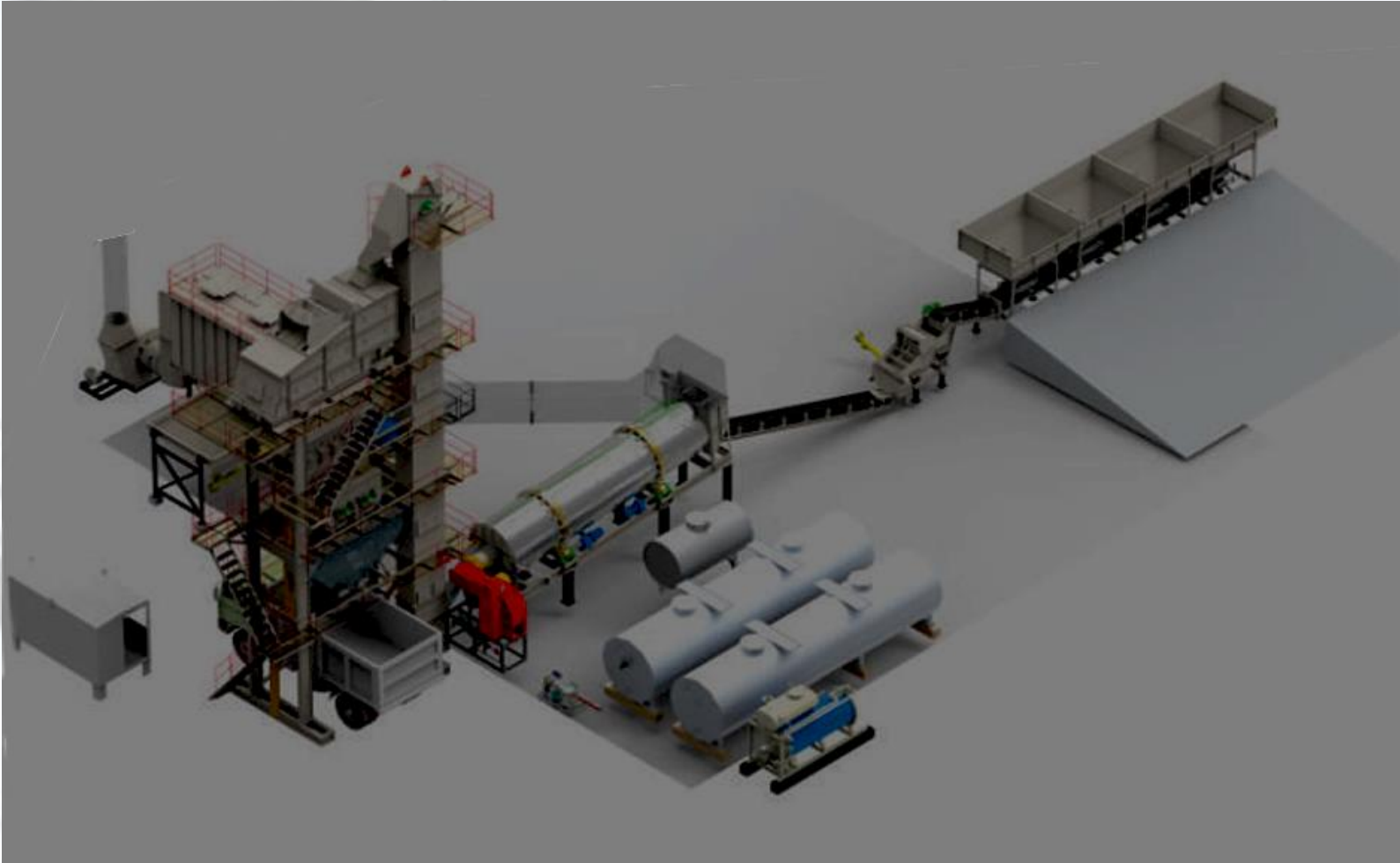
CONTROL ROOM / PANEL

- ✓ A fully Automatic world class SCADA based computerized control panel
- ✓ Unlimited jobs Mix Design Parameters
- ✓ High resolution screen and 19" LCD color graphic monitor with CPU for live operation on screen
- ✓ Safety signal indicators, which indicates the time service & maintenance requirements on the plant.
- ✓ World-class AC Drive Inverter for cold bin feeder
- ✓ Centralized operation measuring for batch Kg/per cycle of with homogeneous mix of aggregate, bitumen & minerals
- ✓ Manual operation control ability for test trial or for maintenance. .
- ✓ Unlimited memory data for Mix Design Recipes on PLC & SCADA index list.
- ✓ Production data printout per trip with total batch details. (Aggregate, Bitumen & Filler)
- ✓ Data history saved on PLC (Date, Job mix, Data)



TECHNICAL SPECIFICATIONS

NO	MODEL	ST-BP100	ST-BP120	ST-BP160	ST-BP200	ST-BP240
1	COLD FEED BINS	4X15 TON	4 X 15 TON	4 X15TON	5X20TON	6X20TON
2	COLD FEEDER CONVEYORS	4 X 100TPH	4 X 100TPH	4 X 150TPH	5X 150TPH	6X 200TPH
3	COLLECTING CONVEYOR	140TPH	180 TPH	220TPH	280TPH	330TPH
DRYING CAPACITY						
4	5% MC	60 TPH	90TPH	120 TPH	150TPH	180TPH
	3% MC	80 TPH	120 TPH	160 TPH	200TPH	240TPH
5	BURNER		900 KG/HR	1200 KG/HR	1500 KG/HR	1800 KG/HR
6	HOT ELEVATOR	120 TPH	180 TPH	220 TPH	280TPH	330TPH
7	VIBRATING SCREEN	4 DECKS	4 DECKS	4 DECKS	5 DECKS	5 DECKS
8	HOT BIN	4 BINS	4 BINS	4 BINS	4BINS	5 BINS
9	AGGREGATE SCALE	1600 KG	1600 KG	2000 KG	2500 KG	3000 KG
10	BITUMEN SCALE	300 KG	300 KG	300 KG	375 KG	450KG
11	FILLER SCALE	300 KG	300 KG	400 KG	500KG	600KG
12	MIXER	1300 KG	1500 KG	2000 KG	2500 KG	3000 KG
MIXING CAPACITY						
13	60 SEC. CYCLE	60 TPH	90TPH	120 TPH	150TPH	180TPH
	45 SEC. CYCLE	80 TPH	120 TPH	160 TPH	200TPH	240TPH
	36 SEC. CYCLE	100 TPH	160 TPH	200TPH	250TPH	300TPH
14	BITUMEN T SPRAY PUMP	800 L/M	800 L/M	800 L/M	1000 L/M	1500 L/M
15	RECUPERATED FILLER ELEVATOR	20 TPH	20TPH	25TPH	30TPH	40TPH
16	DUST EXTRACTOR	50M M ³ /MIN	50M M ³ /MIN	70M ³ / MIN	70M ³ / MIN	100M ³ / MIN
17	AIR COMPRESSOR		600 L/M	900 L/M	900 L/M	1200 L/M
18	BITUMEN STORAGE TANKS	1 x 30 TONS	2 X 30 TONS	3 X 30 TONS	4 X 30 TONS	4 X 30 TONS
19	BAG FILTER	350 M ³	400 M ³	450 M ³	500 M ³	550 M ³
20	EXHAUST FAN	750 RPM	750 RPM	1000 RPM	1200 RPM	1400 RPM
21	EXHAUST MOTOR	75 HP	120 HP	120 HP	150 HP	150HP
22	DRUM SIZE	1600X7500	1800 X8000	2000 X 8000	2000X8500	2100 X 9000



EXTENDED WARRANTY POLICY (OPTIONAL)

For more complete information on Symonstechnology (Sytechs) products, dealer services, and industry solutions, please contact sales@symonstechnology.com

Sytechs Minerals N.A -Factory (Asphalt Plant) Address: 181-2, Phase-III, Adeshwar Mould Lane, Vatva, Ahmedabad- Gujarat, India

© 2020 Sytechs Minerals All Rights Reserved

Manufactured as per North American Design and Specifications,
Under License of Sytechs Minerals N.A

**ISO 9001
QUALITY SYSTEM
CERTIFIED**

Form: SCA409-2022