



SPEEDCRAFTS®
ASPHALT & CONCRETE EQUIPMENT



**ASPHALT BATCH MIX PLANT
ASPHALT DRUM MIX PLANT
CONCRETE BATCHING PLANT**



Speedcrafts, the flagship company of our group was established in 1971 in Patna, the capital of Bihar. From a modest beginning, today our manufacturing unit covers 27 acres of land, with approx. 25,000 sq. mtrs. (250,000 sq. ft.) of covered area, in-house machine shop, forging arrangement, fabrication shop, press shop, mechanical, hydraulic and electrical assembly facilities and paint shop as well as handling and packaging facilities. Over the past fifty years **Speedcrafts** has built a formidable reputation for quality and technical excellence of its products. With in-house R&D and technical collaboration with world-leaders in road making machine industry, backed by an ISO 9001 & CE Certification, **Speedcrafts** is known for not only quality, but also for its commitment towards total customer satisfaction and implementation of projects on schedule.

*Your trusted companion...
on the road to prosperity...*

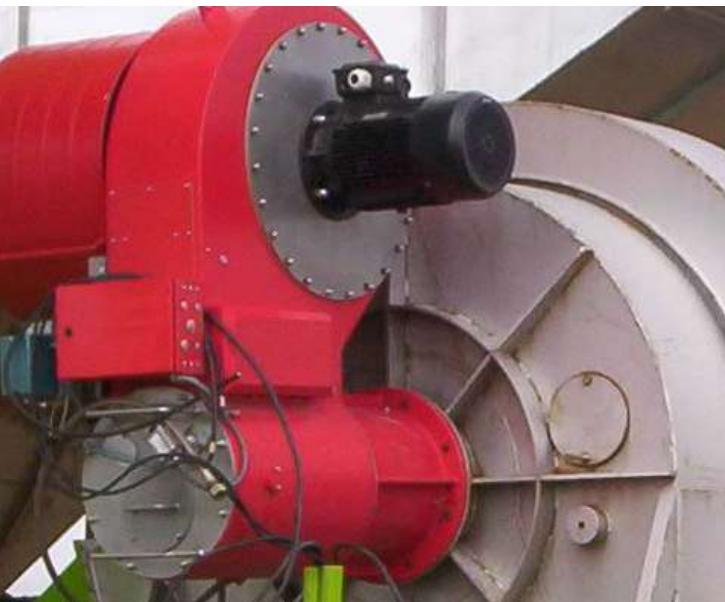




Asphalt Batch Mix Plant

Dryer Drum

It is designed for longer life. Proven flight design ensures a perfect distribution of material to be dried. The drum is guided through two rolling steel rings on 4 trunion rollers, coupled with geared motors and bearings, mounted on a sturdy main frame.



Burner

Our modulating burner works with either diesel or heavy oil. Burner is provided with servo motor for air regulation and PID Controller for modulation.





Batching Tower

It is fully automatic and guarantees best product quality. The operator can choose all the required process parameters and all components of the tower will become automatically set to obtain the requested product. The main units of the tower such as elevator, screen, hot aggregate storage bins and mixer are designed for long life, low maintenance and reliability.

Cold Feed Bins

Plants are provided with heavy duty cold feed bins. Bins have self-relieving bottom opening, which eliminates bridging of the feeders. Each bin is provided with variable speed inverter drive through gear box and motor.



Control Unit

Computerised Controls are provided for burner, temperature, damper, emergency plant shut down, sequential start and stop etc. The display shows Aggregate, Asphalt, Filler & Production TPH along with Temperature display of Aggregate, Asphalt, Exhaust & Mix Material. Daily production data can be printed out for records. Controls are mounted on a centralised Control Panel inside the Control Room.



Bag House Filter

Bag house filters remove the dust from the dryer's exhaust and comply with the most severe environmental regulations. They are fitted with safety devices for temperature control and automatic counter-flow cleaning through main exhauster and complete system for recovery and re-use of filler.





Bitumen Tank

Tanks are insulated with rock-wool, available in horizontal type and heated by thermal oil with automatic temperature adjustment. Suitable valves to control the charge, transfer and discharge of bitumen among tanks are provided.

Technical Specification

PLANT MODEL			BM 80	BM 120	BM 160	BM 180	BM 200
	Plant Capacity *	tph	80	120	160	180	200
COLD FEED BINS							
	Number		4	4	4	4	4
	Capacity	cum	10	10	13	15	15
DRYER DRUM							
	L x D	mm	8000 x 1800	8000 x 2000	8000 x 2200	9000 x 2200	9000 x 2200
	Drive Type		4 Wheel, Friction Drive				
Burner	Type		High Pressure, Automatic, Modulating				
	Fuel		Heavy Oil / Diesel				
	Power	MW	7.1	9.3	12.4	14.2	15.5
BATCHING TOWER							
Screening	Method		Inclined Circular Vibration				
	No. of Selections		4 + DIR	4 + DIR	4 + DIR	4 + DIR	4 + DIR
Hot Aggregate Bin	Number		4	4	4	4	4
	Capacity	cum	5	10	10	12	12
Mixer	Type		Twin Shaft				
	Batch Size	kg	1000	1500	2000	2250	2500
	Cycle Time	sec	45	45	45	45	45
POLLUTION CONTROL UNIT							
	Type		Bag House filter				
	Filter Area	sqm	355	580	665	720	800
CONTROL UNIT							
	Type		Fully Computerized				
ACCESSORIES							
Filler silo	Capacity	cum	10	10	15	15	20
Bitumen Tanks		ton	1 / 30	1 / 30	2 / 30	2 / 30	2 / 30
	Heating System		Thermal Oil Heating				
Thermal Oil Heater	Capacity	kcal / hr	250,000	250,000	400,000	400,000	400,000
Fuel Tank	Capacity	ltr	10,000	10,000	15,000	15,000	20,000

* Capacity @ 3% moisture content

Due to our policy of continuous improvement, the technical data mentioned in this entire catalogue is not binding and subject to change without notice.



Asphalt Drum Mix Plant



Dryer Drum

The dryer is accurately fabricated to ensure proper heating of aggregates with minimum heat loss. It is supported on steel rollers through steel tyres with idlers and guide rollers and is provided with segmented driving sprocket.

Four Bin Feeder

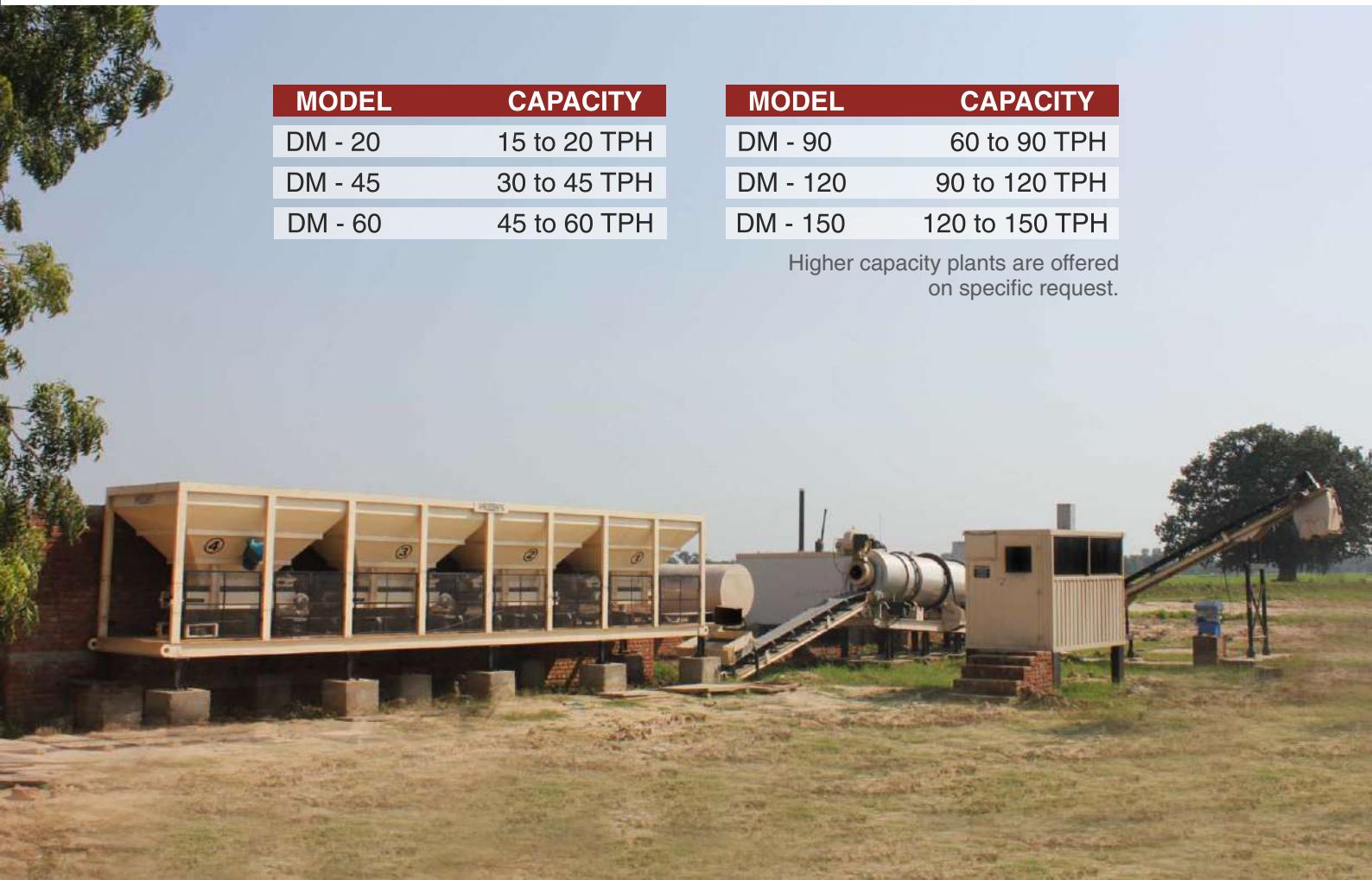
It is of single chassis construction. At each Bin, a radial gate is provided which can be opened in any position to regulate the aggregate flow. Individual endless belts fitted with variable speed motors discharges material onto the gathering conveyor as per the mix design.



MODEL	CAPACITY
DM - 20	15 to 20 TPH
DM - 45	30 to 45 TPH
DM - 60	45 to 60 TPH

MODEL	CAPACITY
DM - 90	60 to 90 TPH
DM - 120	90 to 120 TPH
DM - 150	120 to 150 TPH

Higher capacity plants are offered on specific request.



Features

- Fully Automatic Plants upto 150 TPH Capacity.
- Mobile and Stationary.
- Wet Type and Bag House Filter Systems.
- Plants with Counterflow Drum
- Hot Mix Storage Silos.
- Global Presence with Prompt Product Support.

Advantages

- All components used are of top quality.
- Moving and electrical parts are provided with safety covers.
- Ease of lubrication and dismantling has been built into the design for efficient maintenance and repair.
- Fabricated parts are thoroughly cleaned and treated before painting.
- Manufacturing is done with advanced, internationally recognised techniques.

Controls

A fully automatic control panel with feather touch controls are provided for controlling the quantity and quality of production with operator sitting in air-conditioned comfort.

All systems are completely synchronised with automatic / manual control of burners, load cell, mix temperature, cold feed, mineral, bitumen proportions, etc. Manual control is possible through over-ride system. Adequate safety measures are adopted to avoid overloading, short-circuit, etc.

Vibratory Screen

A single-deck vibratory screen is provided to remove oversize aggregate received from the four bin feeder.

Wet Scrubber

An effective air pollution control system for minimizing emission of fine particles and gases.





Conveyors

A slinger conveyor is provided which receives aggregate from the four bin feeder and feeds it to the dryer drum.

Loadout conveyor fitted with hydraulically operated hopper is provided at the discharge end of the dryer drum which feeds the hot mix material into tippers.

Dryer Burner

A fully automatic, high pressure, auto jet burner is mounted at one end of the drum.

Flight Design

The drying and mixing unit of the plant demands complex flight design. Specially designed flights lift and cascade the aggregate to reduce the final moisture content to 0.5% (by weight).

Filler Unit

Fabricated from steel plates, it feeds the required quantity of mineral to the dryer drum.

Asphalt (Bitumen) Tank

Tank of 15/20 MT capacity is provided, fabricated from steel plates with 50 mm glasswool insulation, manhole, thermocouples, etc. Bitumen is pumped to the dryer drum through hot oil jacketed pipelines. Tanks are fitted with independent on-off type burners.

Fuel Tank

One Tank of 2500 / 5000 / 10000 Ltrs. capacity is provided with each plant.



Technical Specification

MODEL	DM-20	DM-45	DM-60	DM-90	DM-120	DM-150
CAPACITY RANGE (TPH)*	15 to 20	30 to 45	45 to 60	60 to 90	90 to 120	120 to 150
DRYER						
Length (m)	5	6.2	6.2	6.75	6.75	8.5
Diameter (m)	1.05	1.13	1.22	1.5	1.82	2.1
Insulation (Cerawool in mm)	25	25	25	25	25	25
Exhauster (CFM)	5500	7500	10500	14500	18500	22500
Burner Rating (Ltrs./Hr.)	150	150	250	350	550	900
BIN FEEDER						
No. of Bins	4	4	4	4	4	4
Bin Capacity (MT)	8	8	11	11	13	13
Belt Feeder Width (mm)	500	500	500	500	500	500
Gathering Conveyor Width (mm)	600	600	600	600	600	600
SLINGER CONVEYOR						
Conveyor Width (mm)	600	600	600	600	600	600
LOADOUT CONVEYOR						
Conveyor Width (mm)	600	600	600	600	600	600
Loadout Height (m)	3.2	3.2	3.2	3.2	3.2	3.2
Hopper Capacity (kg)	800	800	800	1000	1000	1000
POWER REQUIREMENTS						
Drum Drive (HP)	10	15	20	30	40	60
Exhauster (HP)	10	15	20	25	50	75
Bin Feeder Hopper (HP)	4 x 2	4 x 2	4 x 2	4 x 2	4 x 3	4 x 3
Gathering Conveyor (HP)	3	5	5	5	7.5	7.5
Slinger Conveyor (HP)	3	5	5	5	7.5	7.5
Vibratory Screen (HP)	1	1	1	1	2	2
Loadout Conveyor (HP)	3	5	5	5	7.5	7.5
Hydraulic Powerpack (HP)	2	2	2	2	5	5
Bitumen (Asphalt) Pump (HP)	3	3	3	3	3	5
Filler Unit						
Rotary valve (HP)	1.5	1.5	2	2	5	5
Blower (HP)	5	5	5	5	5	5
Dryer Automatic Burner						
Fuel Pump (HP)	2	2	2	2	3	5
Blower (HP)	3	3	5	10	15	25
Hot Oil Pump (HP)	0.5	0.5	0.5	0.5	0.5	0.5
Water Pump of Wet Scrubber (HP)	5	5	5	5	5	5
BITUMEN TANK						
Capacity (MT)	15	15	15	20	20	15 x 2
Insulation (Glasswool in mm)	50	50	50	50	50	50
FUEL TANK						
Capacity (Ltrs.)	2500	2500	5000	5000	5000	10000
TOTAL CONNECTED LOAD						
Load (KVA)	80	100	120	135	220	300

*Capacity @ 3% moisture content

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Components of Asphalt Plant



Four Bin Feeder



Dryer Drum



Control Panel



Dryer Burner



Vibratory Screen



Asphalt (Bitumen) Tank



Bitumen Burner



Filler Unit



Fuel Tank



Flight Design Inside Dryer Drum



Mobile Four Bin Feeder



Mobile Dryer With Multicyclone & Exhauster



Mobile Dryer Drum



Hot Mix Storage Silo



Bag House Filter

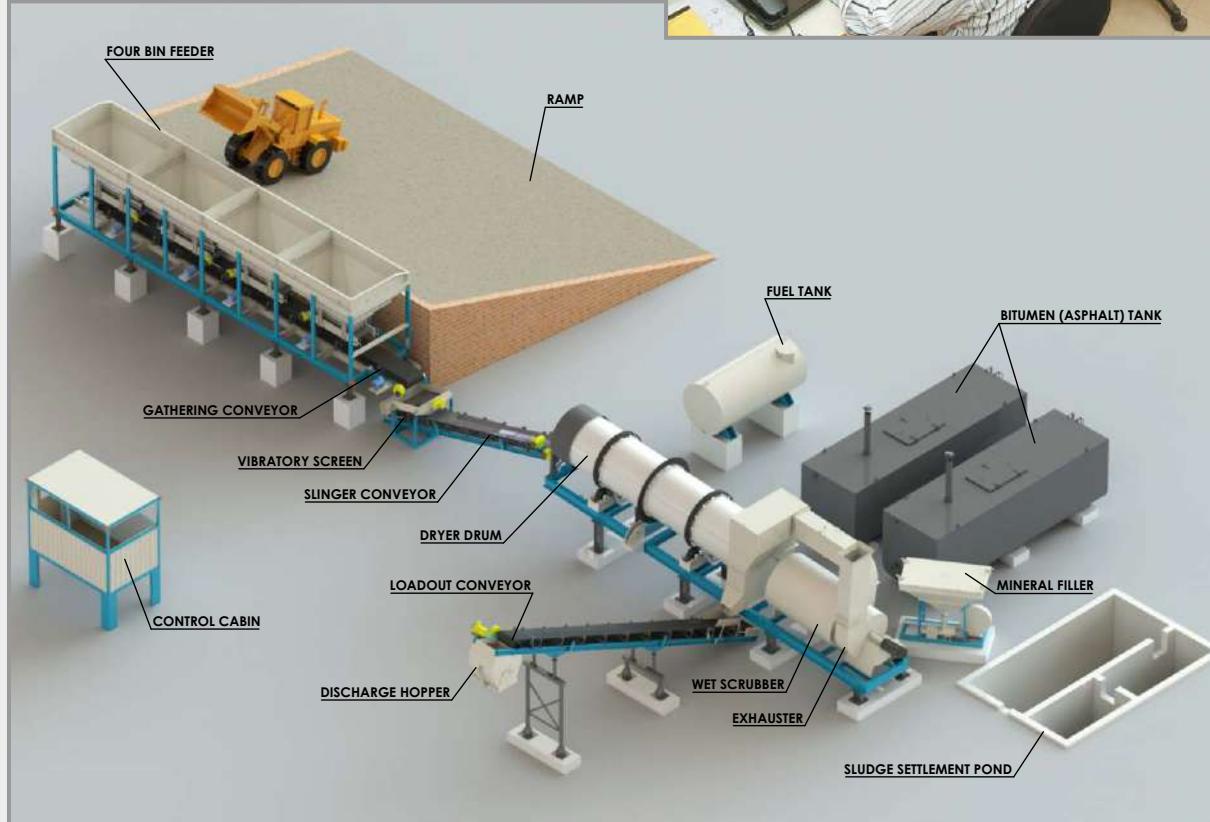
Certain components shown here are optional.
Please refer our offer to know the exact scope of supply.

R & D Division

Equipped with latest design software and technology dedicatedly works on finding solutions to tomorrows needs. We offer tailor made plants as per individual customers requirement.



General Layout of Drum Mix Plant



Land area requirement for installation - 40 m x 40 m (max.)



Mobile Four Bin Feeder



Mobile Dryer Drum with Wet Scrubber

Concrete Batching Plant



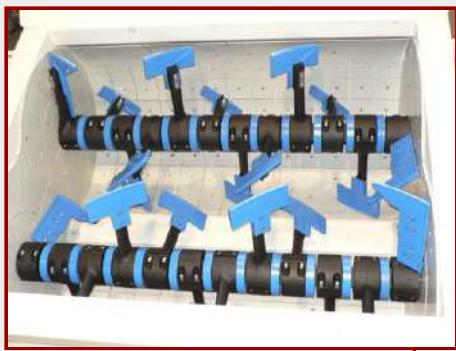
Inline Concrete Batching Plant

Fully automatic Stationary Concrete Plants are available upto 120 m³/hr capacity. These plants are highly advanced and durable.

Features

- Plants available in 30 / 45 / 60 / 75 / 90 / 120 m³/hr capacity
- Equipped with Pan / Twin Shaft / Planetary Mixer
- Inline storage of Aggregate & Sand
- Aggregate & Sand weighing conveyor suspended on load cells
- Inclined conveyor for feeding of Aggregate & Sand into mixer
- Independent weighing system for Cement, Water & Additive
- Operation through Fully Automatic Electronic Control Panel
- Manufacturing is done with advanced, internationally recognised techniques at our State of the art facilities
- Global presence with prompt after sales support
- Dedicated R & D Department

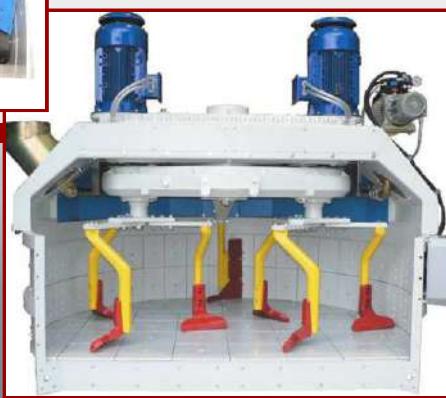
Twin Shaft Mixer



Mixer Features

- Outstanding Homogeneity In Short Time
- Low Wear Design
- Easy & Low Maintenance

Planetary Mixer



Controls

- PLC Based Control
- SCADA Interface
- Automatic & Manual Operation
- Auto Correction of Water
- Inventory Control Management



Optionals

- Cement / Fly Ash storage & conveying system up to 100 MT capacity
- Radial Conveyor for feeding of aggregate into the bins



Technical Specification : SCP 30 / 45 / 60

Model	SCP 30	SCP 45	SCP 60
Output (m ³ /hr)	30	45	60
Type of Sand / Aggregate Bin	In Line	In Line	In Line
No. of Bins	4	4	4
Bin Capacity (Each)	8 m ³	10 m ³	15 m ³
Transfer Belt Width	500 mm	550 mm	650 mm
Type of Mixer	Pan	Twin Shaft	Twin Shaft
Cement / Filler Weighing System	✓	✓	✓
Water Weighing System	✓	✓	✓
Admixture Weighing System	✓	✓	✓
Air Compressor	✓	✓	✓
Controls	SCADA Enabled	SCADA Enabled	SCADA Enabled
Auto + Manual Mode	✓	✓	✓
Inventory Management	✓	✓	✓
Discharge Height	4.1 mtr	4.1 mtr	4.1 mtr

Weighing Accuracy : Conforming to IS & DIN Standards 2% for Aggregate & 1% for Water & Cement

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Higher Capacity Plants are offered on specific request.

Compact Concrete Batching Plant

Highly compact and fully automatic Concrete Plant is available in 30 m³/hr capacity. Plant could be erected and dismantled in a day.

Technical Specification : CCP 30

Model	CCP 30
Output (m ³ /hr)	30
Type of Mixer	Pan
Mixer Capacity per Batch (m ³)	0.5
No. of Aggregate and Sand Bins	4
Total Storage Capacity of Bins (m ³)	20
Cement Feeding Hopper (kg)	2000
Water Weighing Hopper Capacity (m ³)	0.30
Cement Weighing Hopper Capacity (m ³)	0.35
Discharge Height from Ground Level (m)	4.1
Total Connected Load (hp)	72

Features

- Compact design with main unit mounted on single chassis
- Equipped with Pan Mixer
- Split bins for storage of Aggregate and Sand
- Cement / Fly Ash storage & conveying system
- Aggregate / Sand weighing & charging conveyor suspended on load cell
- Independent digital weighing system for cement, water and additive
- Fully automatic control panel
- Air conditioned control cabin
- Manufactured at state of the art facility
- 24 x 7 Product support



Containerized Concrete Plant

Container type, fully integrated, automatic Concrete Plants are available in 36 & 45 m³/hr capacity. With design, mixer and controls from Europe, these plants are available both in stationary and mobile versions.

Features

- Compact design from Europe
- European Mixer & Controls
- Quick Installation
- Low Maintenance Cost
- One Trailer Load
- Global Supplies & Support

Optionals

- Wheel & Axle for Mobility
- Cement Silo with Screw Conveyor and Accessories
- Cement Weighing System on top of Mixer
- Dosing system for Liquid Additives



Technical Specification : MCP 36 / 45

Model	MCP 36	MCP 45
Output (m ³ /hr)	36	45
Type of Mixer	Pan	Pan
Sand / Aggregate Bin	4 Nos	4 Nos
Bin Capacity (each)	4.5 m ³	4.5 m ³
Water Tank	In built	In built
Water Pump	1 No	1 No
Controls	Fully Automatic	Fully Automatic
Concrete Discharge	Through Conveyor Belt	Through Conveyor Belt
Approx. Weight	14000 Kg	15000 Kg

**



Portable Concrete Plant

These are highly Portable Concrete Plants & is available in 20 m³/hr capacity. Extremely useful for contractors on the move.

Features

- Compact design
- Cost Efficient
- Quick Installation
- Low Maintenance Cost
- One Trailer Load
- Global Supplies & Support

Optionals

- Wheel & Axle for Mobility
- Cement Silo with Screw Conveyor and Accessories



Technical Specification : PCP 20

Model	PCP 20
Output (m ³ /hr)	20
Type of Mixer	Pan
Mixer Motor Power	30 Hp
Sand/Aggregate Hopper (Split Bin)	4 Nos
Hopper Capacity (Each)	5 m ³
Water Pump	1 No
Additive Jar	1 No
Additive Pump	1 No
Controls	Fully Automatic
Weighing System	Electronic Digital
Approx. Weight	11000 Kg
Cement Hopper with Screw Conveyor	1 Set
Load Out Conveyor	1 Set
Power Requirement	75 KVA

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Mobile Concrete Plant

Compact design and fully automatic Mobile Concrete Plant is available in 15 m³/hr capacity. Ease of erection and operation is the key feature of this plant.

Features

- Compact design
- Cost Efficient
- Low Maintenance
- One Trailer Load
- Top Quality Components
- Global Supplies & Support



Technical Specification : MCP 15

Model	MCP 15
Output (m ³ /hr)	15
Type of Mixer	Pan
Sand / Aggregate Bin	4 Nos
Hopper Capacity (each)	2.5 m ³
No. of Wheels	6 Nos
Water & Additive Tank	In built
Water & Additive Pump	1 No. Each
Cement Hopper with Screw Conveyor	Included
Controls	Fully Automatic
Concrete Discharge	Through Conveyor Belt
Approx. Weight	11000 Kg

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Few of our Valued Customers





Exhibitions



Bauma 2019, Germany



The Big5 2019, Kenya



Bauma 2018, South Africa



Buildcon International Expo 2017, Bangladesh



Bauma 2016, Germany



Bauma Conexpo 2016, India

Worldwide



Cambuild 2019, Cambodia



Intermat 2018, France



Construction Expo 2017, Bhutan



Intermat 2017, Thailand



World of Concrete 2016, India



Samoter 2015, Italy



Samoter 2015, Italy

Other Products at a Glance



Wet Mix Macadam Plant



Bitumen Decanter



Pothole Repairing Machine



Bitumen Pressure Distributor



Diesel Road Roller



Paver Finisher



Mobile Hot Mix Plant



Trolley Mounted Bitumen Sprayer



Concrete Conveyor



Road Sweeper



Chip (Aggregate) Spreader



Road Marking Machine & Preheater

Notes

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Plants under despatch

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Authorised Dealer