

Transforming Construction with  
New Age Technology



**MAC 30**

# MAC Concrete Batching Mixing Plant

Available in MAC 20 / MAC 25 / MAC 30 / MAC 45



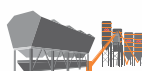
Concrete Batching  
Mixing Plant (MAC)



Self Loading  
Concrete Mixer



Wet Mix Macadam Plant



Concrete Batching  
Mixing Plant (MCP)



Mobile Concrete  
Batching Plant (MA)



Concrete Pipe  
Making Plant



Kerbing Machine



Truck Mounted  
Aerial Platform



Transit Mixer





**MAC 20**



**MACONS** is the single source supplier of turnkey Concrete Batching and Mixing plant solutions. With decades of experience in the industry, we have numerous installations of various capacities to our credit. We are renowned for offering you with everything that is needed to run the very heart of your business. In order to produce the highest quality concrete required as well as on-site concrete plants for the construction of large civil projects such as roads, bridges, ports, dams, runaways, buildings, tunnels, etc., MACONS solutions are designed to confer maximum flexibility by giving your plant the ideal combination of engineered and proven components.

MACONS introduces MAC Model, especially designed for the production of concrete at sites where the quality, flexibility and performance are key features to consider.

The flexibility of this plant begins in the different arrangements available. Four types of mixer models can be selected with a broad range of models: Single Shaft Mixer, Twin Shaft Mixer, PAN type Mixer and Planetary Mixer.

The main advantage of this plant is that it doesn't require large foundations and others civil constructions. The time and money can be saved by easy transportation, assemble and disassemble when plant is shifting from one site to another site.

The constitution of the plant is made in welded construction of steel profiles. The complete structure is shot blasted before the primary coat of paint being implemented. There are two coats of paint applied. Including elements like stairs, balconies, pavements, discharge mouths of the aggregates bins to resist to the attacks of the weather situations.

It's easy to disassemble, transport and assemble again. In one week we assemble your plant in a new site producing concrete, saving you time and money.



### Pan Type Mixer

The Mixer is mainly responsible for good quality concrete. We construct our own energetic mixer to provide that quality. In this mixer, all the ingredients are mixed and removed in circles, obtaining a homogeneous mixture. It moves and revolves with the arms, absorbing the shocks that are produced through the coupling spring incorporated that regulate the position and slope angles of the paddles to obtain the result with minimal power consumption. Mixer is having replaceable hard liner tiles on side and bottom. Mixer's top cover can be folded for easy cleaning of inside of the mixer.



### Twin Shaft Mixer

The Twin-shaft Mixer offers among the most advanced mixing solution, capable of handling from high to zero slump concrete. The twin shaft system mixing consisting two horizontal shafts with arms and paddles moving in counter current; Counter rotating mixing arms and paddle creates a spiral shaped vertical and horizontal mix direction, which has ensures to make three dimensional mixing. The twin shaft mixer is the best to make any king of concrete. The discharge is accomplished by a hydraulic operated gate, which is assembled throughout the length of the mixer vat for fast and complete discharge.







**MAC 25**



**MAC 45**



### Planetary Mixer

This mixer produces quality concrete with high homogeneity in a very short time. The whole mixer is powered and controlled with a hard surface gearbox so, it provides a stable driving. This mixer has an extremely high efficiency, attributed through the mixing arms that move on a sophisticated track and cover the whole mixing area. This may cause the planetary mixer one of the best machines for producing precast concrete products such as low or zero slump precast concrete, self-compacting concrete, etc. This mixer ideally presents various discharging styles including doors that may be run hydraulically, manually and pneumatically.



### Aggregate Weighing Conveyor

Aggregate weighing conveyor has chevron type belt and it is suspended on 4 nos. load cell for accurate weighing system. Weighing conveyor is driven by two gear motors which are directly mounted on both end of drive drum with inbuilt hold back facility. Weighing hopper is made from mild steel suitable to heavy working conditions for long time with mechanical separators.



### Aggregate, Cement, Water & Additive Weigher

Water and Cement hopper mounted on independent modular frame structure and weightment can be done by individual electronic load cell.



### Aggregate Storage Bin

The aggregate storage bins made from mild steel sheet. The aggregate bins have in cross layout. The installation of aggregate storage bins is very user friendly as the construction process and the extension of the preassembly reduce the installation time of the plant at site. The aggregate storage bins are broadened to facilitate the loading process by loader. The discharge window of aggregate bins opened through pneumatic cylinders.



### Control Panel

- The system combines the power of a PLC and dedicated Weighing Modules to provide reliable and accurate control.
- The system can handle up to 4 scales or more; with upto 5 Aggregates, upto 4 Cements, Water & upto 2 Admixtures, being accurately Batched on 'weight' basis.
- The system is capable of handling multi-scale, multi-ingredient Batching & Mixing operation, with All necessary Interlocking, Timing. Alarm generation,

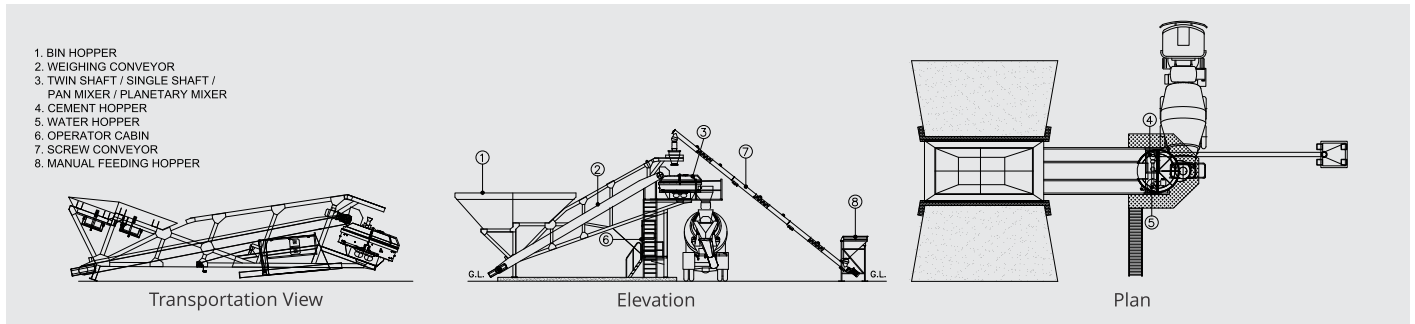
Event-logging, Recipe & Report generation facility.

- Software calibration for all scales with password protection.
- The system has Touch Screen display with 3 Serial communication ports & 2 USB port.
- High speed sampling ensures batch to batch accuracy.
- All necessary interlocks are programmed within the system to allow parallel batching and Mixing Operations.
- Variety of features incorporated in the system ensures easy and fault free plant operation.
- The Manual Desk is equipped with Push buttons, indications and change over switches. Each device in the plant can be operated manually completely by - passing the AUTO system.

## Technical Specifications

Plant Capacity	Unit	MAC-20CP	MAC-25	MAC-25CP	MAC-30N	MAC-30	MAC-30CP	MAC-45
Compacted Concrete	M <sup>3</sup> hr.	20	25	25	30	30	30	45
<b>Mixer Specification</b>								
Mixer Specification		Pan	Pan	Pan	Pan	Pan / Single Shaft / Twin Shaft / Planetary	Pan / Single Shaft / Twin Shaft / Planetary	Pan / Single Shaft / Twin Shaft / Planetary
Mixer Capacity	M <sup>3</sup>	0.33	0.35	0.35	0.5	0.5	0.5	0.75
Input / Output Capacity	Lit.	800 / 330	800 / 350	800 / 350	1000 / 500	750 / 500	750 / 500	1000 / 750-1000 / 750-1000 / 750-1125 / 750
Motor Power	Hp	20	25	25	25	30 / 30 / 25 / 25	30 / 30 / 25 / 25	40 / 40 / 40 / 40
<b>Aggregate Bins</b>								
No. of Compartment	No.	4	4	4	4	4	4	4
Capacity of Each Compartment	M <sup>3</sup>	3.5	4	4	4	5.5	5.5	8
<b>Weighing System</b>								
Aggregate Scale	Kg	Electronic-Digital	Electronic-Digital	Electronic-Digital	Electronic-Digital	Electronic-Digital	Electronic-Digital	Electronic-Digital
Cement Scale	Kg	875	875	875	1250	1250	1250	2000
Water Scale	Kg	150	200	150	300	300	300	600
Water Scale	Lit.	80	100	100	150	150	150	300
Additive Scale	Kg	10	10	10	10	10	10	10
<b>Water Pump</b>								
Connected Power	Hp	2	3	2	3	3	3	3
<b>Cement Screw Conveyor</b>								
Diameter	Mm	168	219	219	219	219	219	219
Connected Power	Hp	10	12.5	12.5	12.5	12.5	12.5	12.5
Std. Supply of Screw		1	1	1	1	1	1	1
<b>Air Compressor</b>								
Connected Power	Hp	2	3	3	3	3	3	3
<b>Control Panel</b>								
Cabin	Hp	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic
<b>Cabin</b>								
Discharge Height	Na	Yes	Yes	Na	Yes	Yes	Na	Yes
<b>Discharge Height</b>								
Total Connected Load	Mtr	3	4.1	3	4.1	4.1	3	4.1
<b>Total Connected Load</b>								
	Hp	43.63	53.13	52.134	53.13	59.38 / 59.38 / 54.38 / 54.38	59.38 / 59.38 / 54.38 / 54.38	76.88

\* Output Production is considerate with 30 seconds Mixing Time



### Salient Features

- Compact and economically designed.
- Heavy duty structure.
- Longer life of wear & tear parts.
- In-built control cabin not as an optional.
- Especially quick erection & commissioning.
- Inbuilt pipeline of water, additive and pneumatic.
- Tilting type control cabin for easy transportation.
- One operator can run the plant.
- Single Shaft and Planetary Mixer available on request.

\* Design and specification are subject to change without prior notice.

### Optionals

- Cement/ Fly Ash Storage & Conveying System from 20 to 220 MT capacity.
- Microwave Moisture Meter.
- Computer SCADA System with Software.
- Rotary Chute Conveyor Belt for Aggregate Feeding.
- Skid & Silo Accessories.



### Macons Equipments Pvt. Ltd.

**Corporate Office:** 11, Abhishree Corporate Park, Bopal-Ambli Road, Ahmedabad-380058, Gujarat, India

**Works:** Survey Block No. 212/216, Mahalaxmi Estate, Sarkhej Bavla Highway, Matoda Patia, Taluka Sanand, Ahmedabad - 382213, Gujarat, India

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**Toll Free Number**  
**1800 121 5671**





Transforming Construction with  
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**MAC 112**



## MAC Concrete Batching Mixing Plant

Available in MAC 60 / MAC 70 / MAC 75 / MAC 90 / MAC 112



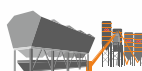
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Wet Mix Macadam Plant



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Mobile Concrete  
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Concrete Pipe  
Making Plant



Kerbing Machine



Truck Mounted  
Aerial Platform



Transit Mixer



**MAC 60**



**MAC 70**



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**MAC 75**



**MAC 90**



**MAC 112**



### Aggregate Weighing Conveyor

Aggregate weighing conveyor has chevron type belt and it is suspended on 4 nos. load cell for accurate weighing system. Weighing conveyor is driven by two gear motors which are directly mounted on both end of drive drum with inbuilt hold back facility. Weighing hopper is made from mild steel suitable to heavy working conditions for long time with mechanical separators.



### Aggregate, Cement, Water & Additive Weigher

Water and Cement hopper mounted on independent modular frame structure and weightment can be done by individual electronic load cell.



### Control Panel

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- Software calibration for all scales with password protection.
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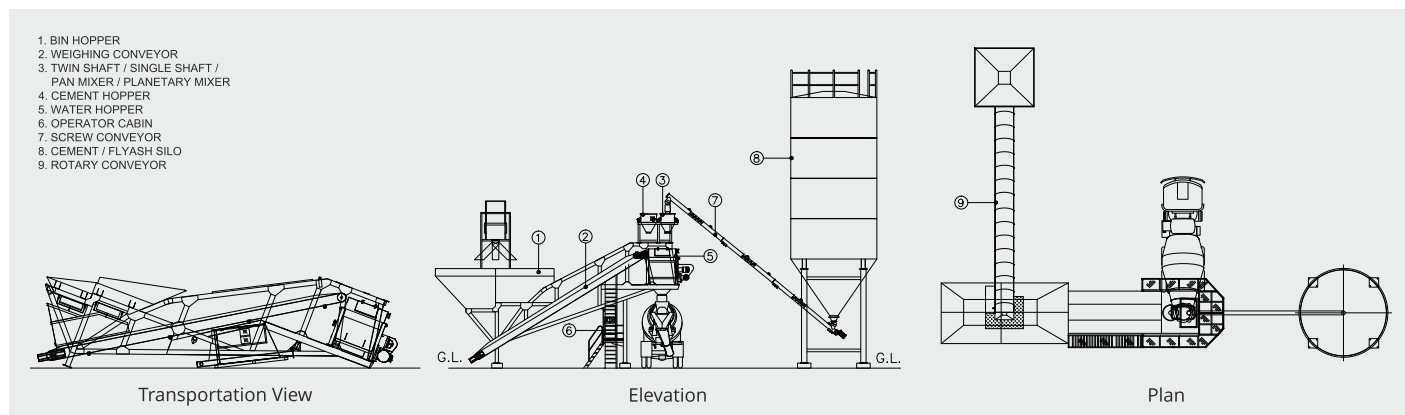
### Rotary Chute Conveyor

The rotary chute conveyor has Chevron belt with MS angle heavy duty frame structure. The conveyor has elevated wire rope with integrated plant form railing for easy maintenance. The conveyor is driven by shaft mounted gear reducer with inbuilt hold back facility. The fabricated hopper of 5 mm MS Plate is being supplied with vibrator.

## Technical Specifications

Plant Capacity	Unit	MAC-60	MAC-60P	MAC-70	MAC-75	MAC-90	MAC-112
Compacted Concrete	M <sup>3</sup> /hr.	60	60	70	75	90	112
<b>Mixer Specification</b>							
Mixer Specification		Pan / Twin Shaft / Planetary	Pan	Twin Shaft / Planetary	Twin Shaft / Planetary	Twin Shaft / Planetary	Twin Shaft
Mixer Capacity	M <sup>3</sup>	1	1	1.25	1.5	2	2.5
Input / Output Capacity	Lit.	1500 / 1000	1500 / 1000	1875 / 1250	2250 / 1500	3000 / 2000	3750 / 2500
Motor Power	Hp	50 / 50 / 60	50	60 / 60	75 / 80	100 / 100	120
<b>Aggregate Bins</b>							
No. of Compartment	No.	4	4	4	4	4	4
Capacity of Each Compartment	M <sup>3</sup>	12	8	12	15	20	24
<b>Weighing System</b>							
Aggregate Scale	Kg	2500	2500	3150	3750	5000	6250
Cement Scale	Kg	900	900	1125	1200	1200	1500
Water Scale	Lit.	450	450	562	600	600	750
Additive Scale	Kg	20	20	20	20	20	20
<b>Water Pump</b>							
Connected Power	Hp	5	5	5	5	10	10
<b>Cement Screw Conveyor</b>							
Diameter	Mm	219	219	219	219	273	273
Connected Power	Hp	12.5	12.5	12.5	12.5	25	25
Std. Supply of Screw		Optional	Optional	Optional	Optional	Optional	Optional
<b>Air Compressor</b>							
Connected Power	Hp	5	5	5	5	10	10
<b>Control Panel</b>							
Cabin	Hp	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic
<b>Discharge Height</b>							
Total Connected Load	Hp	95.88 / 95.88 / 105.88	95.88	105.38	120.38 / 125.88	178.88	199.88

\* Output Production is considerate with 30 seconds Mixing Time



### Salient Features

- Compact and economically designed.
- Heavy duty structure.
- Longer life of wear & tear parts.
- In-built control cabin not as an optional.
- Especially quick erection & commissioning.
- Inbuilt pipeline of water, additive and pneumatic.
- Tilting type control cabin for easy transportation.
- One operator can run the plant.
- Single Shaft and Planetary Mixer available on request.

### Optionals

- Cement/ Fly Ash Storage & Conveying System from 20 to 220 MT capacity.
- Microwave Moisture Meter.
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