

Laying the Foundations of Concrete First

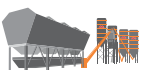


MCP BIN 160



Horizontal Concrete Batching / Mixing Plants

Available in MCP BIN 45, MCP BIN 60, MCP BIN 70, MCP BIN 75
MCP BIN 90, MCP BIN 120, MCP BIN 160, MCP BIN 200, MCP BIN 240



Concrete Batching
Mixing Plant (MCP)



Self Loading
Concrete Mixer



Concrete Batching
Mixing Plant (MAC)



Wet Mix Macadam Plant



Mobile Concrete
Batching Plant (MA)



Concrete Pipe
Making Plant



Kerbing Machine



Truck Mounted
Aerial Platform



Transit Mixer



MCP BIN 45



MCP BIN 60



MCP BIN 70



MCP BIN 75



MCP BIN 90



MCP BIN 120

MACONS is a single source supplier of turnkey concrete batching and mixing plant solutions. With decades of experience and numerous installations of various capacities, we provide you with everything needed to run the very heart of your business to produce the highest quality product possible. We specialize in projects where consistent, superior quality concrete is required as well as on site concrete plants for the construction of large civil projects such as roads, bridges, ports, dams, runways, buildings, tunnels etc. MACONS solution are designed to provide maximum flexibility by giving your plant the ideal combination of engineered and proven components.

We back our projects and solutions with extensive support, from comprehensive training of your operator staff once installation is complete, to ongoing maintenance support and advice. By combining our highly engineered skills, reliable control technology and a commitment to turnkey solutions we can get your project running with less hassle and in less time.



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 kind 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.



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 Waiting Hopper, Water, Cement & Additive Weigher

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



Automatic Greasing System

Mixer consisting automatic greasing system for shaft seals lubrication to ensure smooth operations.



Aggregate Storage Bin

The aggregate storage bins made from mild steel sheet. The installation of aggregate storage bins very user friendly, as the construction process and the extension of the pre-assembly reduce the installation time of the plant at site. The aggregate storage bins are broaden 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.



Elevating Conveyor

'V' shape embossed rubber belt conveyor with an integrated platform and railing to easy maintenance and cleaning, Conveyor transmitted via direct drive of geared motor.



Radial Conveyor

The radial conveyor has chevron belt with MS angle heavy duty frame structure. The conveyor has elevated wire rope with integrated platform, railing for easy maintenance. The conveyor is driven by shaft mounted gear reducer with inbuilt hold back facility. The fabricated hopper of ms plate is being supplied with vibrator.



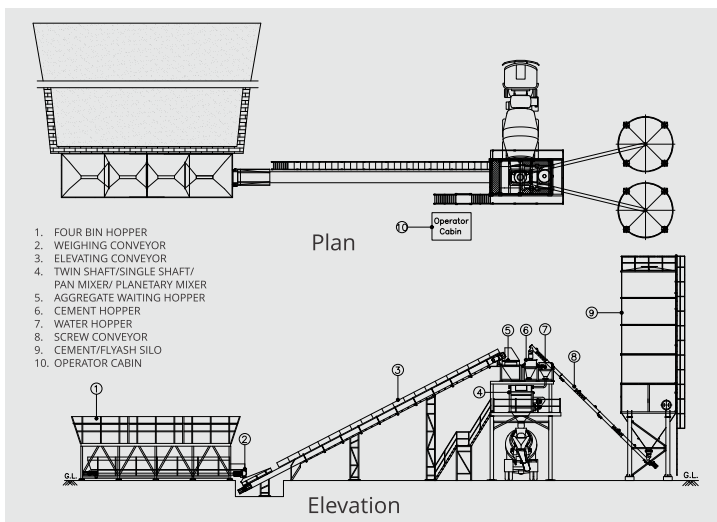
Weighing Conveyor

The conveyor belt and the partitioned weighing hopper are suspended on 6 Nos. of electronic load cells for accurate weighing. Weighing conveyor is driven via direct drive of powerful gear motor and having subsequent support of Idler roller.

Technical Specifications

Plant Capacity	Unit	MCP-BIN-45	MCP-BIN-60	MCP-BIN-70	MCP-BIN-75	MCP-BIN-90	MCP-BIN-120	MCP-BIN-160	MCP-BIN-200	MCP-BIN-240
Compacted Concrete	m ³ /hr	45	60	70	75	90	120	160	200	240
Mixer Specification										
Mixer Specification		Pan / Single Shaft / Twin Shaft / Planetary	Pan / Single Shaft / Twin Shaft / Planetary	Twin Shaft / Planetary	Twin Shaft / Planetary	Twin Shaft	Twin Shaft	Twin Shaft	Twin Shaft	Twin Shaft
Mixer Capacity	m ³	0.75	1	1.25	1.5	2	3	4	5	6
Input / Output Capacity	Lit	1000 / 750 - 1000 / 750 - 1000 / 750 - 1125 / 750	1500 / 1000	1875 / 1250	2250 / 1500	3000 / 2000	4500 / 3000	6000 / 4000	7500 / 5000	9000 / 6000
Motor Power	HP	40 / 40 / 30 / 40	50 / 50 / 50 / 60	60	75	50X2=100	75X2=150	100X2=200	120X2=240	75X4=300
Aggregate Bins										
No. of compartment	No.	4	4	4	4	4	4	4	4	4
Capacity of Each Compartment	m ³	8	15	15	15	25	25	40	40	40
Weighing System										
Aggregate Scale	Kg	2000	2500	3125	3750	5000	7500	10000	12500	15000
Cement Scale	Kg	600	900	1200	1200	1200	1800	2700	3200	3900
Water Scale	Lit	300	450	600	600	600	900	1350	1600	1920
Additive Scale	Kg	10	20	20	20	20	20	25	25	25
Water pump										
Connected power	HP	3	5	5	5	10	10	10	10	10
Cement Screw Conveyor										
Diameter	mm	Ø219	Ø219	Ø219	Ø219	Ø273	Ø273	Ø323	Ø323	Ø323
Connected power	HP	12.5	12.5	12.5	12.5	25	25	30	30	30
Std. supply of Screw		1	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Air Compressor										
Connected power	HP	3	5	5	7.5	7.5	10	10	10	10
Control Panel										
	HP	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic	Fully Automatic
Total Connected Load										
	HP	106.88 / 104.88 / 96.88 / 106.88	125.88 / 125.88 / 125.88 / 135.88	136.13	158.38	223.38	279.63	344.63	384.76	444.76

* Output Production is considerate with 30 Seconds Mixing Time



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

Salient Features

- Required installation time is very less, due to Modular design.
- Fully Automatic-Electronic operation with PLC/PC Control.
- Reliable, Fast and Accurate Electronic Weighing System for major inputs.
- Full service, technical support and spares back-up.

Optionals

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