

The Versatile Concrete Plant





Pan Mixer ►

The Mixer is mainly responsible for good quality concrete, on this way we construct our own energetic mixer. 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 angle of the paddles, to obtain the work with minimal power consumption. Mixer having replaceable hard liner tiles on shall and bottom. Mixer's top cover can be folded for easy cleaning of mixer.



◀ The Cement, Water and Additive Weigher

Cement and Water having independent batch controller for precise weighing through individual electronic load cells, the least count is 0.5 Kg. and the accuracy of weighing is $\pm 1\%$. A separate M.S. fabricated conical weighing hopper for cement and water shall be provided, which rests on mild steel fabricated modular frame. Additive system consisting transparent glass tank fitted under the electronic load cell. The least count of additive is 0.05 Kg. and the accuracy of weighing is $\pm 3\%$.



Star Batcher - Aggregate Weigher ►

Batching star unit incorporating four compartment with individual bulk heads for storage of 3 types of aggregate and sand. The gates are opened by pneumatic cylinder from where bucket is charged with aggregate and sand. The agg. bucket rests on four electronic load cells, which is fitted on fabricated modular frame. The strain gauges are sensing the mechanical deflection of the load cell due to charging of agg. and display of weight of indicates on the panel. The least count is 1 Kg. and the accuracy of weighing is $\pm 2\%$.





◀ Radial Dragging Scraper

Radial Scraper help pulling aggregate & sand towards the gate of the bulk head. The reach of the boom dragline bucket will be according to the capacity of batching plant. The swiveling of the boom is done by a geared motor fitted in the cabin double drum winch is fitted inside the cabin of the radial scrapper and is driven by an electric motor. The control levers and pedals are within the easy reach of the

operator. The cabin is mounted on the top of bulk head structure and the boom facing the batching star. A slewing ring motorized gear is provided & swiveling is done by Forward / Reverse switch in front of the operator. Alternatively swiveling can be done manually by replacing motorized gear by a simple steering wheel coupled mechanically with slewing gear by a pinion. The cabin has glass window on all sides for clear unobstructed view of the scrapper in all phase of the operation.

Screw Conveyor ▶

A heavy duty screw conveyor is installed in inclined position to convey the cement from manual feeding hopper to cement hopper, Cement/Fly Ash Silo adequate drive unit provided with screw conveyor. Screw conveyor supported by suitable vertical M.S. supports. A screw have one inlet connection at bottom, where manual feeding hopper/cement silo connected and one discharge connection at the top from where the cement is discharged to cement weighing hopper.



◀ Control / Operating Panel

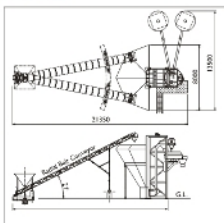
- Control Panel using reliable & high performance automation components and extremely user friendly operator interface.
- Separate weight indicators for Aggregates/Sand, Cement, Water and Additive with software calibration.
- Full runtime status display on MMI with weight readings, No. of batches, status and error messages.
- Recipe storage for upto 99 recipes.
- On-line and Off-line printing facility for batch data.
- Tight feed control using features like In-flight compensation, Batch correction and Jog feeding.
- Manual operation mode, which bypass the automation system and allows operation of all equipments individually and independently.



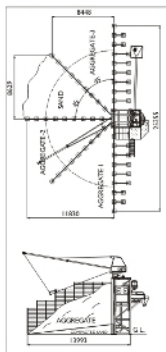
Technical Specification

No.	Specification	Unit	RMC-30	RMC-BIN-30	RMC-P-30
1	Output Capacity	m ³ /hr	30	30	30
2	Type of Mixer	-	PAN	PAN	PAN
3	Capacity of Mixer	Liter	750/500	750/500	750/500
4	Aggregate Storage	-	Star Batcher	In Line Bins	Pocket Bins
5	Nos. of Bins	Nos.	-	04	04
6	Storage capacity of each bins	m ³	-	12.5	8-10
7	Boom Length	Meter	12	-	-
8	Complete Storage with a box radius of 12 m	Approx. m ³	500	-	-
9	Active Reserves of Aggregate	Approx. m ³	25	-	-
10	Weighing Scale / Load Cell				
	- Aggregate Scale	Kg.	1500	1500	1500
	- Aggregate Load Cell	Nos.	04	06	04
	- Cement Scale	Kg.	300	300	300
	- Cement Load Cell	Nos.	03	03	03
	- Water Scale	Kg.	150	150	150
	- Water Load Cell	Nos.	01	01	01
11	Cement Screw Conveyor	N.B.	Ø 219	Ø 219	Ø 219
12	Vibrator Motor	-	Sand / Cement	Sand / Cement	Sand / Cement
13	Controls		Fully Automatic	Fully Automatic	Fully Automatic
14	Connected Power	KW	56	56	44
15	Concrete Discharge Height	Mt.	4.2	4.2	4.2
16	Total Weight (Approx)	Ton	12	16	12

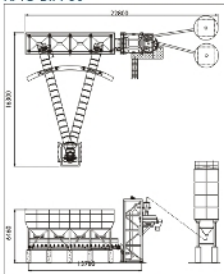
RMC-P-30



RMC-30



RMC-BIN-30



Salient Features :

- Sturdy fabricated skip hoist track.
- Heavy duty PAN type mixer for continuous mixing.
- Mixer discharge done by powerful hydraulic cylinder.
- Replaceable Tiles and Tips in to the mixer.
- Independent weighing system for cement, water & additive, reduces the cycle time as the weighments of above are done simultaneously.
- Aggregate weigher is suspended on four shear beam type load cells, gives higher accuracy.
- Skip Bucket is driven by two speed geared motor.
- External glass cabin for inspection of entire operation.
- Ample space on platform with protective railing for easy maintenance.
- Three side glass cabin for Radial Scraper operator for extensive view.
- Maximum weighing accuracy.
- Completely close conveying system for cement to ensure absolutely no wastage.
- Fully Automatic – Electronic function with digital display of each operation.
- Full Service Technical Support & Spares Backup.
- Simple & Economical Foundation.

Optional Accessories :

- Cement and Fly Ash Storage & Conveying System from 20 to 200 MT. capacity.
- Chemical Additive dosing system.
- Online/Offline Printing System.
- Computer SCADA System with adequate software.

MACONS EQUIPMENTS

(Formerly known as M/s. Maxocrete Equipments)

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