



COMPACT CONCRETE BATCHING PLANT (CCBP – 60 RPP)

PRODUCES 60 M³/HOUR OF QUALITY MIX CONCRETE

FOAR is a manufacturer of advanced technology concrete batching plants with a wide range of applications. This medium size compact concrete batching plant is suitable for multi-story apartment buildings, concrete supplies, medium size bridges, industrial projects, and pre-cast factories.

Rapid and simple installation on the construction site enables a team to erect the plant and make it ready for operation in just three days. The main frame, mixer, and linear aggregate hoppers can be separated easily. FOAR CCBP-60 batching plant minimizes installation space and can be placed in congested construction sites. Uninstalling the plant is a quick process as well.

FOAR batching plants are simple to operate as they are equipped with a state of the art automatic control which guarantees high performance and the production of quality concrete due to the precision of a load cell based weighing system adopted for aggregate, cement, admixture, and water.

Aggregate Supply System

The aggregate supplying system is compact and reliable. The sand is fed by one hopper of 15 m³ capacity each while the aggregates of various sizes are fed through three storage hoppers of 15 m³ capacity each. All hoppers are equipped with pneumatically controlled gates discharging the material onto the weighing trough conveyor fixed below.



A FOUR STORAGE HOPPER AGGREGATE SUPPLY SYSTEM WITH 15 M³ HOPPERS

Weighing System

This weighing conveyer is equipped with four load cells for weighing of aggregates. The conveyer trough intakes aggregates of various sizes as per the desired formulation and conveys the material to the elevator skip. The cement weighing hopper and batch water is weighed through separate three point load cell systems provided in the tower frame located above the mixer. Liquid admixture will be added to mix by a dosing pump.

Elevator Skip

The skip elevates the aggregate batch and charges into the mixer returning back to the weighing conveyer for reloading for the next batch completing the cycle in less than one minute.

Rotary Pan Planetary Mixer

The rotary pan mixing technology is the latest adaptation within the field of concrete mixing. A planetary rotary pan mixer provides a comprehensive mix of concrete within a minimum time period. The concrete mix is delivered directly to the transit truck via chute.



ROTARY PAN PLANETARY MIXER



FOAR CCBP – 60 RPP (continued)

Operation Center and Control Cabinet

The operation center has overall visibility of the entire plant operation. The operator can see the weigher data display, water flow data, admixture dosage and the operation of the mixer, aggregates, skip, and concrete discharging all at a glance.

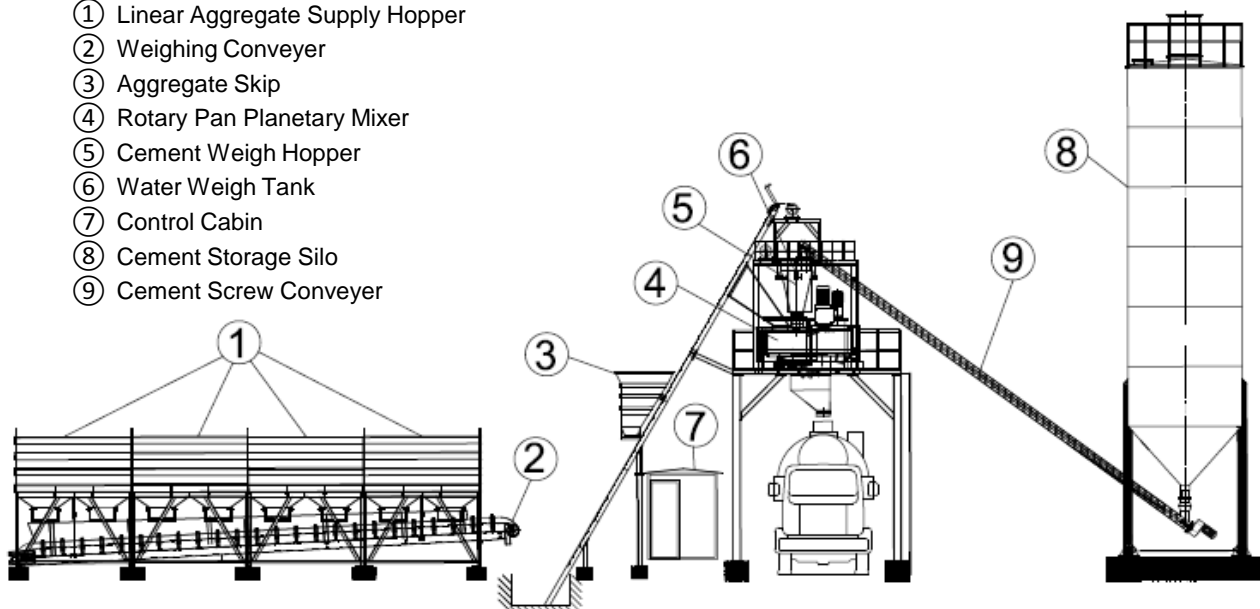
The control cabinet has a power supply and all safety components like circuit breakers, contactors, fuses, relays, timers, programmable logic controller (PLC) for the weighing systems and other devices underneath the control desk.

Technical Specifications

Plant Capacity	60 m ³ /hr of concrete	Elevator Skip	
Material Hoppers & Feed Gates		-Volume	1 m ³
-Aggregate Hopper	3 Nos x 15 m ³ x 2 gates each	-Travel Speed	24 running meters/minute
-Sand Hopper	1 Nos x 15 m ³ x 2 gates each	-Geared Drive	11 kW
-Cement Weigh Hopper	1 Nos x 500 kg x 2 inputs	-Wire rope Φ	12 mm
-Water Weigh Tank	1 Nos x 300 liters	Mixer - Planetary Rotary Pan Mixer Model RPP 1500	
-Additive Tank	1 Nos x 20 liters	-Dry Volume	1500 liters
Weighing Conveyor		-Working Capacity	1000 liters
-800 mm wide trough type 3 ply belt		-Pan Geared Drive	7.5 kW
-Conveyer Drive	7.5 kW	-Star Geared Drive	22.0 kW
Weighing System - Electronic Load Cell Based		Cement Storage	
-Weighing Conveyers	4 cells x 3000 kg each	1 silo x 100 tons	
-Cement Hopper	3 cells x 300 kg each	Screw Conveyor	
-Water Weigh Tank	3 cells x 300 kg each	10" Φ x 12 m; 15 kW drive	
-Additive Weigh Tank	1 cell x 100 kg each	Water Pump	
Full Automatic HMI with PLC (Printer Optional)		5.5 kW drive, centrifugal type, 550 liters/minute	
-HMI provides the option to input formulation data and receive process feedback	-Batches per lot	-Fly weights	-Built-in recipes
	-Batch formulation	-Process inputs	-Print screen option
	-Batch weight	-Process outputs	

Note: Technical specifications are subject to improvement without prior notice

- ① Linear Aggregate Supply Hopper
- ② Weighing Conveyor
- ③ Aggregate Skip
- ④ Rotary Pan Planetary Mixer
- ⑤ Cement Weigh Hopper
- ⑥ Water Weigh Tank
- ⑦ Control Cabin
- ⑧ Cement Storage Silo
- ⑨ Cement Screw Conveyor



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