

STATIONARY CEMENT BATCHING PLANTS

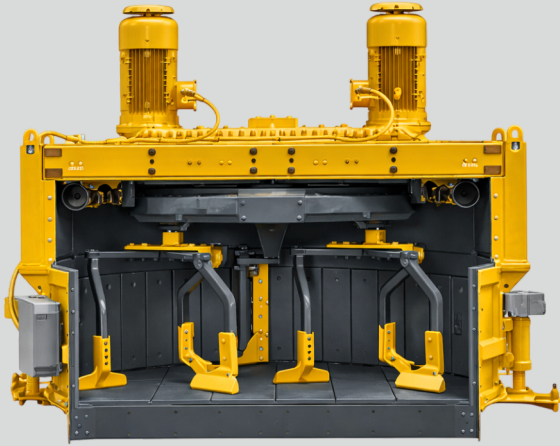
Features

- ➔ High-Precision Weighing System
- ➔ Robust Mixer Unit
- ➔ Automated Control System
- ➔ Durable Construction
- ➔ Environmental Compliance



About us

Himalaya Engineering Company is a trusted manufacturer of advanced Concrete Batching Plants, delivering reliable and high-performance solutions for modern construction needs. With strong engineering expertise, we design plants that ensure consistent concrete quality, high production efficiency, and long-term operational reliability.

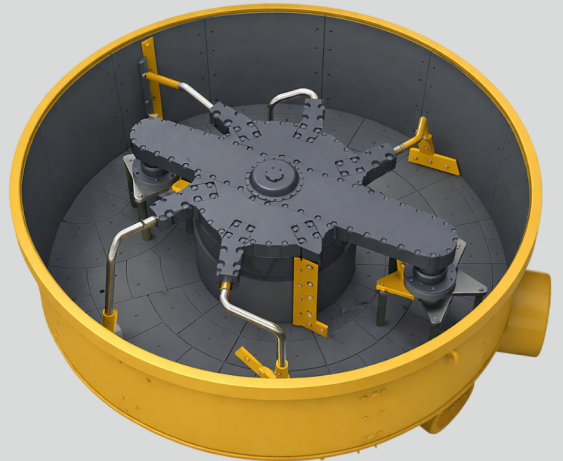


PLANETARY MIXER

A Planetary Mixer delivers highly uniform mixing through a rotating star mechanism that covers the entire mixing area. Ideal for precast, high-strength, and specialty concrete, it ensures excellent homogeneity, faster mixing cycles, and superior performance for demanding mix designs.

PAN MIXER

A Pan Mixer provides reliable and economical mixing with a circular pan and rotating blades. Suitable for small to medium batching plants, it delivers consistent results, simple operation, and low maintenance, making it ideal for general construction needs.



TWIN SHAFT MIXER

The Twin Shaft Mixer is designed for high-output production with powerful dual horizontal shafts that ensure rapid and thorough mixing. It is best suited for RMC and large-scale projects, offering consistent mix quality, high efficiency, and heavy-duty performance.



CEMENT BULKER / SILO FEEDING SYSTEM



This system enables fast and dust-free transfer of bulk cement from tankers to the storage silo using air pressure. It ensures safe unloading, minimal material loss, and smooth material flow, supporting clean and continuous plant operation.

AGGREGATE FEEDER BINS

RMC plants are available with two types of aggregate feeder bin arrangements, designed to suit different site layouts and production needs.

CROSS BINS

Cross bins are arranged in a two-by-two configuration, providing a stable and balanced structure. This layout allows efficient segregation of different aggregate sizes and ensures uniform discharge. Cross bin systems are well-suited for high-production plants and offer strong structural support along with reliable material flow control.



INLINE BINS

Inline bins are arranged in a straight line, allowing easy material loading and a compact plant layout. This design ensures smooth aggregate flow, simplified maintenance access, and efficient feeding to the conveyor system. Inline bins are ideal for sites with space constraints and continuous production requirements.



CEMENT / FLY ASH SILO



The Cement / Fly Ash Silo is designed for safe and efficient storage of bulk cementitious materials. Constructed from heavy-duty steel with a robust structure, it ensures long service life and reliable performance in demanding site conditions.

The silo is equipped with a dust collector, pressure relief valve, level indicators, and a screw conveyor connection for smooth material discharge. A pneumatic aeration system and vibrator help prevent material clogging and ensure consistent flow to the weighing system. Designed for easy installation and maintenance, the silo supports continuous plant operation with minimal downtime.

WEIGHING SYSTEM

The cement weighing hopper supplied with the batching plant is mounted on three load cells to ensure accurate measurement and is fitted with a butterfly valve for efficient material discharge. The hopper is designed with adequate capacity and is equipped with a pneumatic vibrator along with two inlet connections to accommodate twin screw conveyors. The water tank is also supported on load cells for precise weighing and features a bottom discharge gate fitted with a rubber gasket to prevent leakage. The additive system includes an admixture tank of suitable capacity, complete with a feeding pump for controlled dosing.



PLC CONTROL PANEL

A fully computerized control cabin with a PLC-based control system is provided (optional SCADA-based control available). The user-friendly software ensures efficient operation and optimal performance of the mixing equipment.

The system allows printing of essential data such as mix proportions, batch weight, total number of batches, subtotals, and gross totals as required. The preset batch controller accurately manages the number of batches for each transit mixer.

Production details and mix proportions can be easily stored and edited, with the capacity to save up to 99 mix recipes.



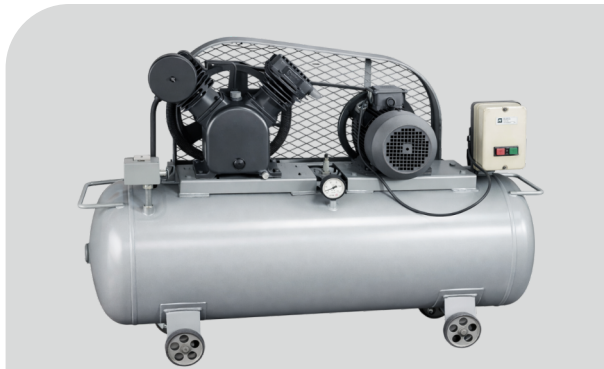


CHARGING CONVEYOR

The Charging Conveyor efficiently transfers aggregates from feeder bins to the mixer. Built with a heavy-duty structure and chevron belt, it ensures smooth material flow, minimal spillage, and reliable performance under continuous operation. Powered by a robust geared motor, it delivers consistent feeding and long service life.

CEMENT HOPPER

The Cement Hopper is mounted on precision load cells for accurate weighing and consistent batching. Equipped with a butterfly valve and pneumatic vibrator, it ensures smooth cement discharge and prevents material buildup. Designed for screw conveyor feeding, it offers reliable performance and efficient operation.



AIR COMPRESSOR

The Air Compressor supplies compressed air for operating pneumatic components such as gates, valves, and cylinders in the batching plant. Designed for reliable performance, it ensures smooth and efficient operation of material discharge systems with minimal maintenance and long service life.

SCREW CONVEYOR

The Screw Conveyor ensures smooth and controlled transfer of cement or fly ash from the silo to the weighing hopper. Built with a heavy-duty structure and reliable drive system, it provides consistent material flow, low maintenance, and dependable performance in batching plant operations.



Technical Specification

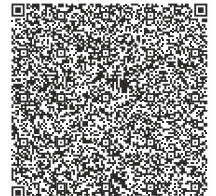
| Model | HSCP 20 | HSCP 30 | HSCP 45 | HSCP 60 | HSCP 75 | HSCP 90 | HSCP 120 |
|---|--|------------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Hourly Output | 20 m3/hr | 30 m3/hr | 45 m3/hr | 60 m3/hr | 75 m3/hr | 90 m3/hr | 120 m3/hr |
| Mixing Time / Batch | 60 sec | 60 sec | 60 sec | 60 sec | 60 sec | 90 sec | 90 sec |
| Loading Capacity | 550 Ltr | 750 Ltr | 1125 Ltr | 1500 Ltr | 1875 Ltr | 3000 Ltr | 4500 Ltr |
| RMC Output Per Batch | 350 Ltr | 500 Ltr | 750 Ltr | 1000 Ltr | 1250 Ltr | 2000 Ltr | 3000 Ltr |
| Power of Mixing Motors | 15 kW | 30 kW | 30 kW | 37 kW | 2 x 22.5 kW | 2 x 37 kW | 2 x 55 kW |
| Cycle/Hour | 60 | 60 | 60 | 60 | 60 | 40 | 40 |
| Mixer | Turbo Pan Mixer / Twin Shaft Mixer / Planetary Mixer | | | | | | |
| Discharge Height | 4.2 Meters from The Ground Level | | | | | | |
| Control Panel | PLC/ SCADA FULLY AUTOMATIC CONTROL PANEL | | | | | | |
| Digital Load Cell-based Weighing System | | | | | | | |
| Aggregate Scale (Kg) | 1500 | 1700 | 2500 | 3000 | 3500 | 5000 | 7500 |
| Cement Scale (Kg) | 250 | 450 | 500 | 600 | 750 | 1200 | 1800 |
| Water Scale (Ltr) | 100 | 200 | 200 | 300 | 350 | 500 | 750 |
| Ad-Mix Scale (Kg) | 3 Kg | 5 Kg | 6 Kg | 8 Kg | 10 Kg | 16 Kg | 25 Kg |
| Aggregate Storage Bin Feeder | 2.5 m ² x 4 | 3.5 m ² x 4 | 5 m ² x 4 | 8 m ² x 4 | 15 m ² x 4 | 18 m ² x 4 | 18 m ² x 4 |
| No. of Bins | 4 (2 x 2 Cross Bin) | 4 (2 x 2 Cross Bin) | 4 | 4 | 4/5. | 4/5 | 4/5 |
| Weighing Conveyor | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Power Consumption (HP) x Qty | | | | | | | |
| Twin Shaft (TS) / Pan Mixer (PM) | 20 (PM) | 30 (PM) | 40 (PM) / 15x2 (TS) | 50 (PM) / 25 x 2 (TS) | 30 x 2 (TS) | 50 x 2 (TS) | 75 x 2 (TS) |
| Gathering Conveyor Belt | 10 | 12.5 | 12.5 | 12.5 | 20 | 12.5 x 2 | 15 x 2 |
| Cement Screw Conveyor | 10 | 12.5 | 12.5 | 12.5 | 15 | 20 | 20 |
| Air Compressors | 2 | 3 | 3 | 5 | 5 | 7.5 | 10 |
| Water Pump | 2 | 2 | 2 | 5 | 5 | 7.5 | 7.5 |
| Additive Pump | 0.5 | 0.5 | 1 | 1 | 2 | 2 | 2 x 2 |
| Hydraulic Power Pack | 2 | 2 | 2 | 3 | 2 | 2 | 2 |
| Vibratory Motors | 0.18 x 2 | 0.18 x 4 | 0.18 x 4 | 0.18 x 4 | 0.5 x 3 | 0.5 x 3 | 0.5 x 3 |
| Total Connected Power | 48 | 62 | 72 | 90 | 110.5 | 165.5 | 225 |
| Suggested DG set | 62 kVA | 82 kVA | 102 kVA | 125 kVA | 160 kVA | 200-250 kVA | 320 kVA |

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