Compact Batching Plant

CP 30

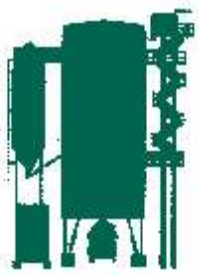
SCHWING Stetter

SCHWING STETTER MOVES CONCRETE. WORLDWIDE

Wherever concrete is produced and moved, Schwing-Stetter products are employed.

With plants in Germany, Austria, USA, Brazil, Russia, China and India, as well as with more than 100 sales and service facilities, the group of companies is always close to the customer.

The wide range of products with the suitable variety of types makes Schwing-Stetter the No.1 system supplier worldwide.



CONCRETE MIXING PLANTS

TRUCK MIXERS

TRUCK-MOUNTED CONCRETE PUMPS

STATIONARY CONCRETE PUMPS

SEPARATE PLACING BOOMS

CONCRETE RECYCLING PLANTS

TOP SHOT RUNNER

COMPACT AND PROVEN

CP30 CONCRETE MIXING PLANT

The CP30 concrete mixing plant from Stetter has now proven its abilities at more than 1500 locations in India as well in countless sites across the globe.

45 years of Stetter experience in the construction and production of concrete mixing plants has been implemented in the newest development of the CP30. The concrete output is approximately 30m^3/h of compacted concrete for a batch size of 0.5 m^3.

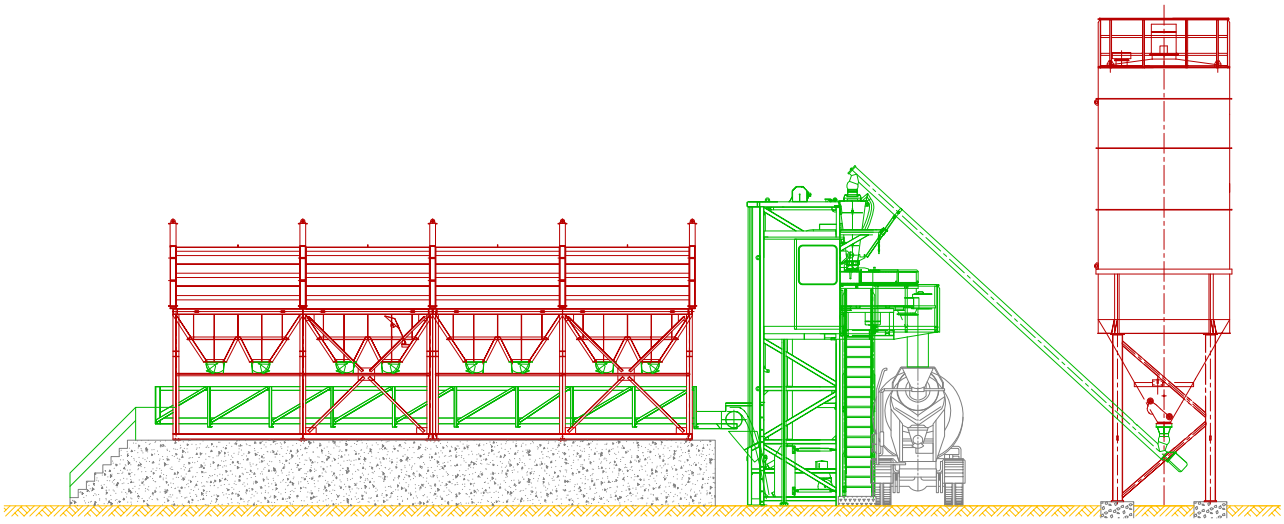
The plant design fully meets the requirements as a mixing plant for ready-mix concrete or as a plant at building site. Other areas of use include the precast factories and concrete product industries. Additionally, it is also used for mortar manufacturing.

STATE-OF-THE-ART

A special characteristic of the CP plant series is the large active and passive reserve provided by the star design. This gives you a high level of independence from the scheduled delivery of aggregates. The CP30 is especially compact when used with a compartment batcher. There are advantages in regard to the space required as well as when transporting the plant to other locations.

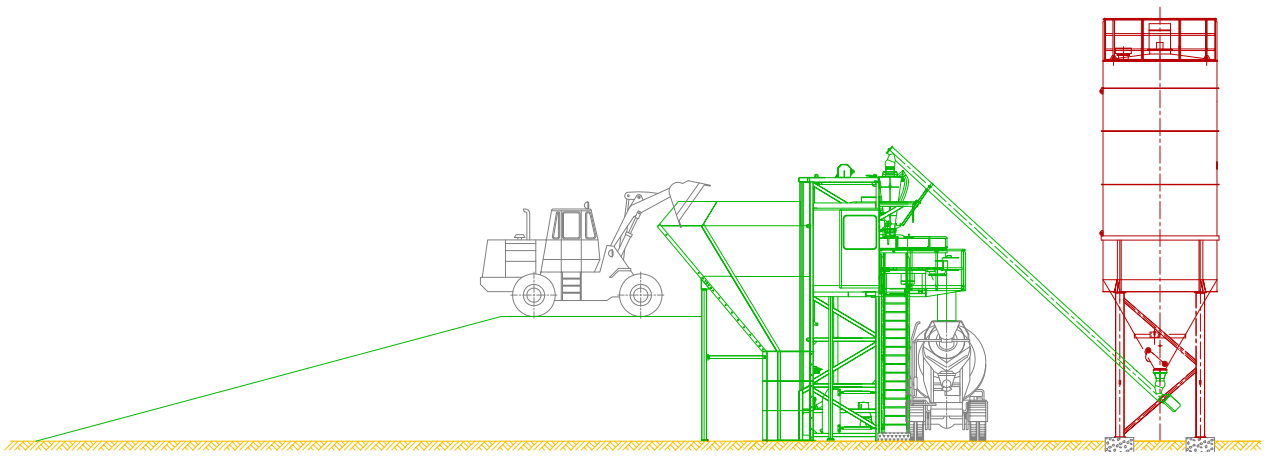
THE VARIATIONS

IN - LINE SILO, COMPARTMENT BATCHER, STAR BATCHER.



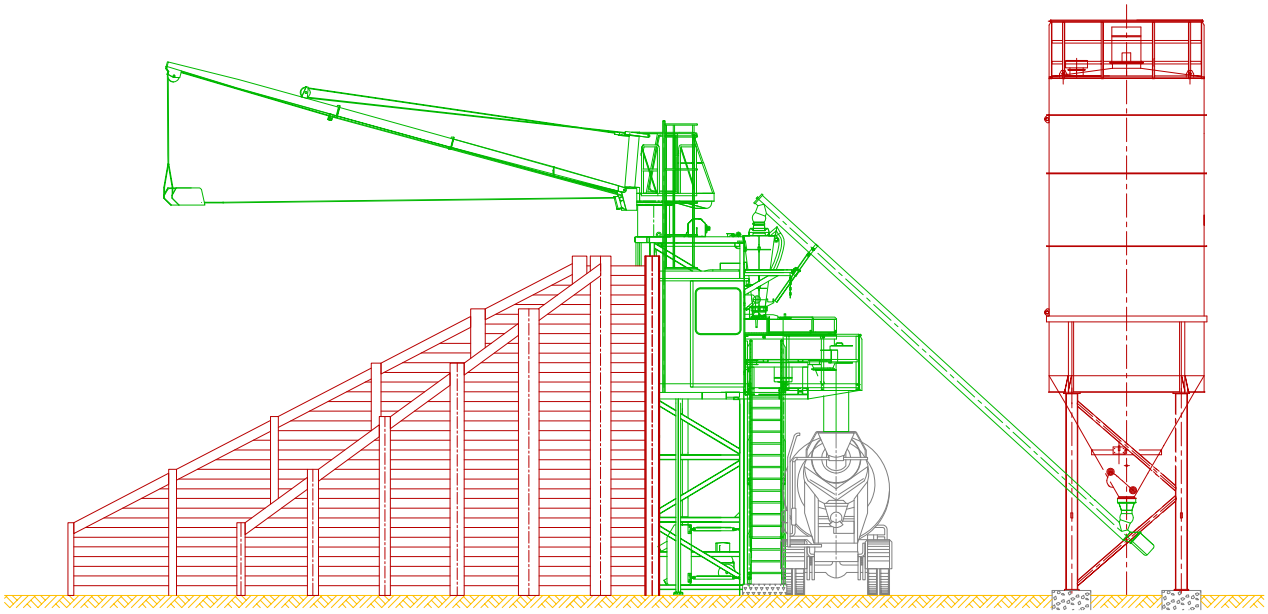
1 : IN-LINE SILO VERSION

If you use more than four types of aggregates, an in-line silo can be used for storage. Each aggregate component is stored in a steel or customer-owned concrete silo. If the aggregates cannot be delivered on time when large amounts of concrete are required, intermediate storage can also be built. A weighing belt that can be calibrated is installed for dosing the aggregates instead of a weighing container. After weighing, the conveyor belt transports and delivers the aggregates into the feeder skip of the mixing plant. Feeding the in-line silo compartments is done using a wheel loader or belt conveyor equipment.



2 : COMPARTMENT BATCHER VERSION

The CP30 with compartment batcher is designed for individual situations where the plant location can be changed at low cost. It is an economical alternative to the in-line silo and the star batcher unit. The compartment batcher consists of four individual compartments with a total capacity of 40 cu.m. Dosing and weighing the aggregate takes place, as with a star batcher, directly in the feeder skip.



3 : STAR BATCHER VERSION

With a star batcher, the aggregates are separated according to components and stored at ground level on a prepared surface. Depending on the concrete quality, you can use one type (mixed gravel) or separated fractions. The star batcher is fed using a scraper. Dosing and weighing the aggregates takes place directly in the feeder skip.

CP30 CONCRETE MIXING PLANT

SOLID TECHNOLOGY FOR PRECISE CONCRETE PRODUCTION

STETTER PAN MIXER

Stetter pan mixers guarantee the production of high-quality concrete in all consistencies. They mix intensively using short alternating movements both horizontally and vertically. Therefore homogeneous concrete is produced with Stetter pan mixers with short mixing times and low energy input.

The mixing tools are designed to be exceptionally resistant to wear. The spring-mounted mixing arms can be quickly adjusted without problems, and polyurethane sleeves protect against wear. Upon request, our mixers can also be made available with shovels made of synthetic material for particularly long lifetimes instead of standard mixing shovels made of specially chilled cast iron.

The mixing trough is equipped with replaceable wear plates on the inner and outer walls as well as the mixing through bottom. Depending on the composition of the respective aggregates, the floor of the mixer can be equipped with normal wear plates made of a special steel or special chilled cast iron tiles. Through all of these measures, we have significantly increased the lifetime of our mixers.

PROVEN AND RELIABLE TECHNOLOGY

Two rope technology

Aggregate Weighing system

Pan Mixer

Lapp Cables

Cement and Water Weighing system

Pneumatic System

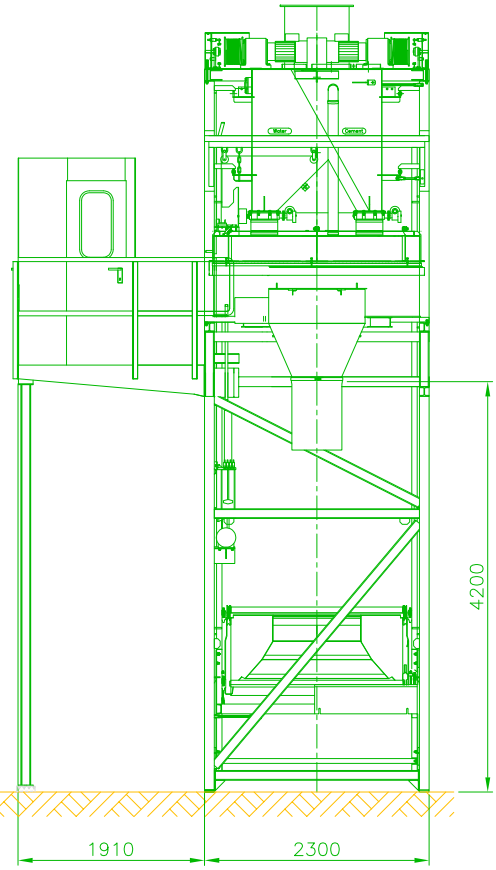
Dosing Gates

Double skip rail track

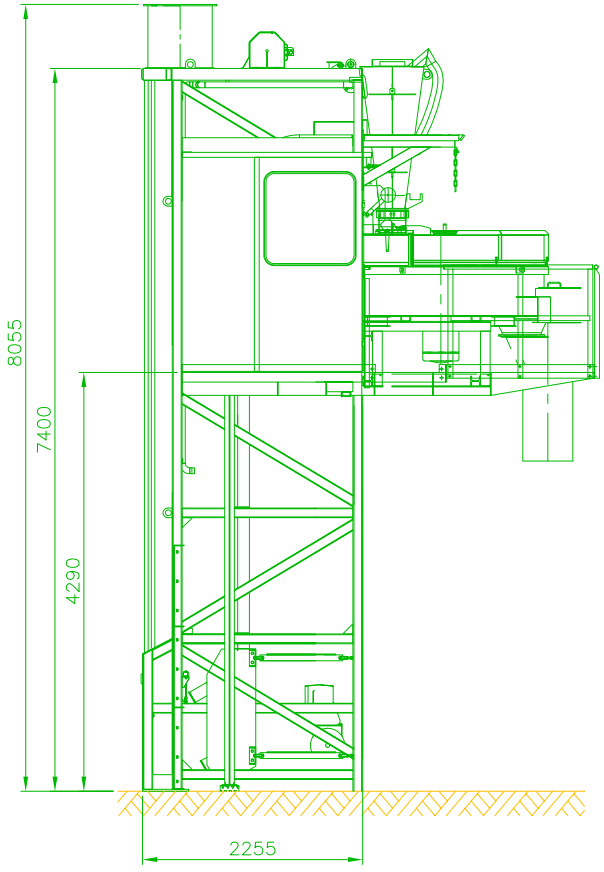
Manual emergency emptying

Separate Cement and Water Weigher

As an option for batching high grade concrete with high cement content



Container transport of the plant



CONTROL SYSTEMS

THE OPTIMAL SYSTEM FOR EVERY SITUATION

FEATURES OF MCI 70N VERSION 3.0.*

Direct interfacing of weighing load-cells with the PLC Modules, Membrane key buttons, Alarm pop-up facility in both HMI and Computer., SMS of critical alarms and production details (optional), Generic Interfacing with third party software for SAP interface (optional).

FOR AUTOMATIC CONCRETE BATCHING

The MCI 70N batching plant is controlled by SIMATIC S7 PLC and HMI interface. Users can easily access the HMI via function keys. The user can quickly access the required menu by symbols and clearly marked buttons. Alarm pop-up facility is available in both HMI and computer. Full online status is possible in HMI unit. In the event of a power failure, the remaining batches can be viewed through HMI unit after power resumes. Full featured recipe editing control through HMI i.e, data change, copy & delete operations. Full featured Auto and Manual calibration of all weighers.

MEMBRANE KEY BUTTON

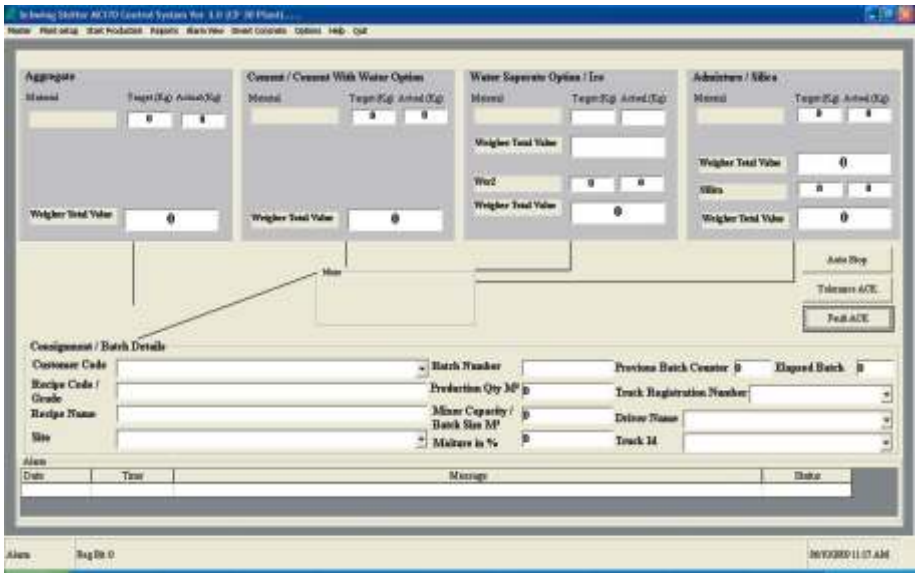
Instead of push buttons, membrane keys have been introduced in MCI70N VERSION 3.0. These membrane keys are used to operate the plant in manual mode. The key is built-in with indication LEDs that give status of the current operational function.

TECHNICAL DATA FOR CP30 -MCI70N VER 3.0

Aggregate scale	1250 Kg.
Cement scale	250 Kg.
Water scale	150 Kg.
Aggregate types	4.
Admixer	6 Kg.
D.G requirement	75KVA.
Supply voltage	3 Phase 415 Volts , 50Hz
Control system	PC, Intel Dual Core Processor with 1GB RAM (Optional) 15.6” LCD Monitor

MAIN MENU MIMIC SCREEN

MCI70N SCADA software is an optional package of VERSION 3.0. MCI70N VERSION 3.0 comes with an option of selecting computer / operating panel for operating batching plant as Customer master, Site master, Recipe master and Truck master.



TECHNICAL DATA FOR THE CP30 COMPACT MIXING PLANT

BASIC PLANT		CP30
Pan Mixer (filling capacity / compacted concrete)	m^3	0.75/0.5
Output volumes (compacted concrete with 30s mixing time)	m^3/h	30
Concrete discharge height	m	4.10
Mixer platform height	m	4.28
Aggregate weighing system (in-line silo / skip)	kg	1,250
Cement weighing system	kg	250
Water weighing system	kg	150
Cement types	upto	3
Water supply	DN	50
Water pressure for operation	Bar	5-6

AGGREGATE STORAGE		STAR BATCHER	COMPARTMENT BATCHER	IN-LINE SILO
Aggregate types		4	4	4 - 6
Storage volumes with 10 m box radius	m^3	500		
Active reserve	m^3	25	40	120-180
Connected load (approx.)	kVA	80	60	85

CP 30 Batching Plant with Compartment Batcher

CP 30 Batching Plant with Star Batcher

Storage of different aggregates in Star Batcher

Stetter CP 30 Concrete Mixing Plant

CP 30 Batching Plant working in RMC

CP 30 Batching Plant working in project site

CP 30 Batching Plant mounted in a Barge

SCHWING - STETTER ALWAYS CLOSE TO THE CUSTOMER.

SCHWING STETTER (INDIA) PVT LTD

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The Data given in this brochure are subject to change without notice.

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