

# HORIZONTAL CONCRETE MIXING PLANTS

Horizontal Concrete Mixing Plants HN 1 to HN 4 / H5 to H6

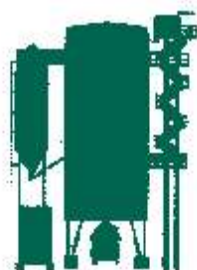


# SCHWING STETTER MOVES CONCRETE. **WORLDWIDE**

Wherever concrete is produced and moved is where you will find SCHWING - Stetter machinery.

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.

Our wide range of products with something for every application is what makes SCHWING - Stetter the No.1 system supplier for concrete machinery worldwide.



**CONCRETE MIXING PLANTS**



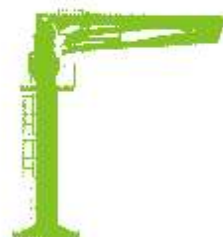
**TRUCK MIXERS**



**TRUCK-MOUNTED CONCRETE PUMPS**



**STATIONARY CONCRETE PUMPS**



**SEPARATE PLACING BOOMS**



**CONCRETE RECYCLING PLANTS**



**TOP SHOT RUNNER**

## OUR EXPERIENCE COUNTS

Stetter horizontal concrete mixing plants HN 1 to HN 4 and H5 to H6 incorporate the experience of over 47 years in mixing plant technology.

Depending on the requirements, the HN-type series is equipped with a pan mixer or a twin-shaft mixer. While designing the plant, high importance was attached to the access thereby facilitating maintenance. In addition, the generously dimensioned space allows this plant to be offered in a wide variety which can be taken from a modular system. H 5 & H 6 are plants for mass concrete requirements and can be suited to the individual demands by adapting the design.

These high capacity, heavy-duty plants are the first choice wherever large quantities of concrete are required. Small wonder that the Stetter H series plants hold the national records in PQC production (5050 cu.m of concrete in 1 day) and also in dam concrete production (6020 cu.m in 1 day)



*The H6 plant at Dankur that set record in PQC production (5050 cu.m in 1 day)*



*The H6 plant at Subansiri in DAM concrete that set record in PQC production (6020 cu.m in 1 day)*



## THE HORIZONTAL MIXING PLANTS HN1 to HN4 / H5 to H6

**RELIABLE, COST-EFFECTIVE, MODULAR.**



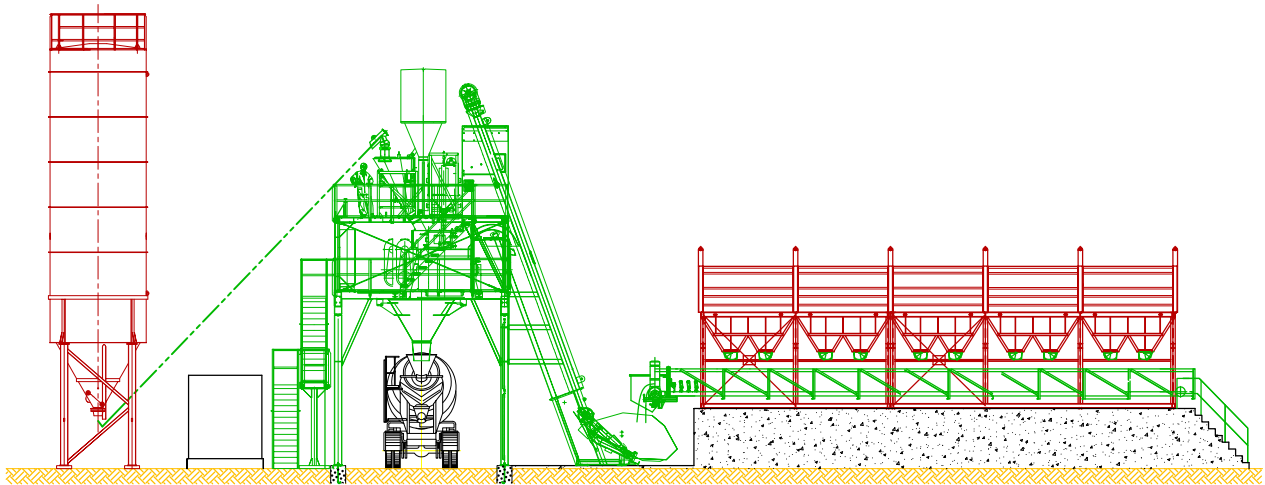




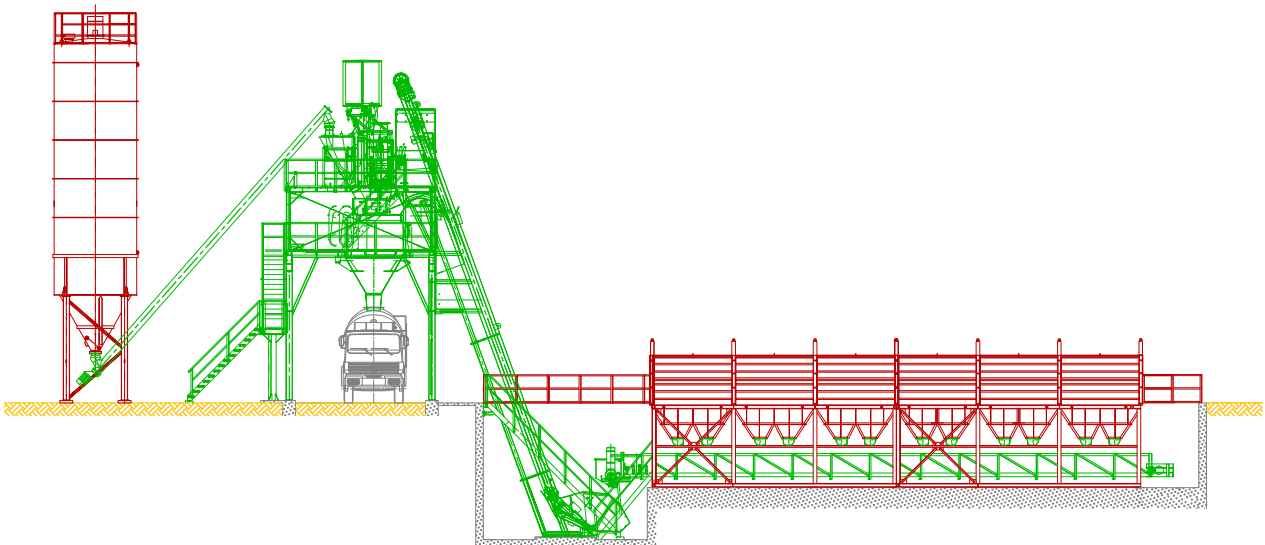
## THE VERSIONS:

### IN-LINE SILO, WITH SKIP OR INCLINED BELT CONVEYOR

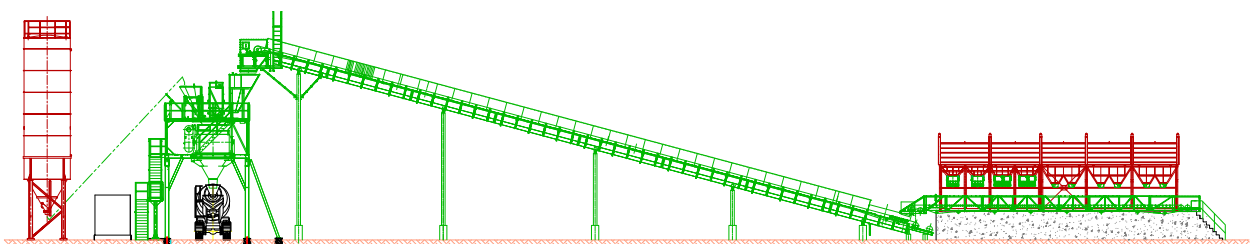
#### VERSION 1: IN-LINE SILO WITH SKIP



#### VERSION 2 : SEMI-SUNK IN-LINE SILO



#### VERSION 3: IN-LINE SILO WITH INCLINED BELT CONVEYOR



# STETTER PAN MIXERS.

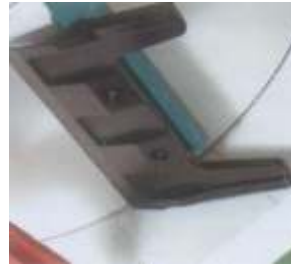
## YOUR GUARANTEE FOR QUALITY CONCRETE.

Stetter pan mixers guarantee production of quality concrete in all slump ranges as they mix intensively, thanks to short mixing paths both horizontally and vertically.

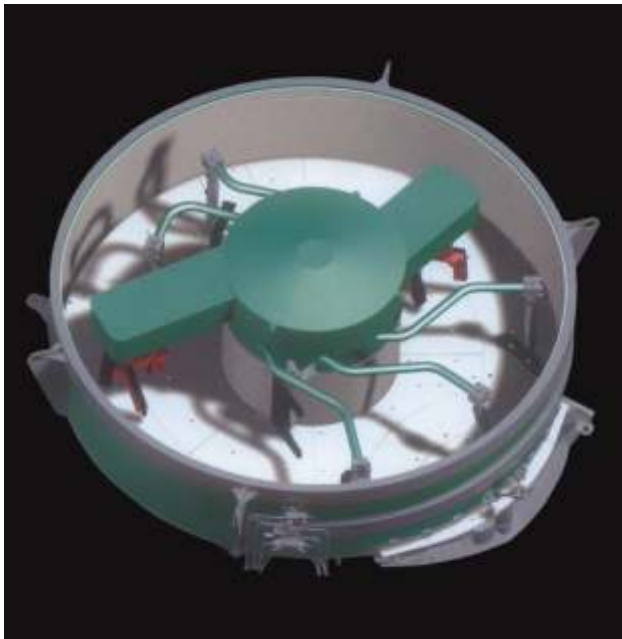
Therefore, homogenous concrete is produced with Stetter pan mixers with short mixing times and low energy input. The mixing tools of the Stetter pan mixer are designed for extremely low wear. The spring-mounted mixing arms can be adjusted quickly without difficulty and are protected against wear by polyurethane sleeves. Upon request, our mixers can also be made available with shovels made of syntethic material for particularly long lifetimes instead of the standard mixing shovels made of special chilled cast iron.



*Pictures top left and right : inner and outer scraper support mixing and discharging effect.*



*Agitators with reinforced agitating tools experience particularly low wear.*



*Wherever you employ the pan mixer for production of ready-mix concrete or in precast concrete factories - you produce quality concrete.*



*Large-dimensioned mixer discharge with hydraulically actuated sliding gate for fast discharging.*



*Power failure? Taking this into account, we have integrated a hydraulically operated manual discharge device.*



*The drive with planetary gear and flange - mounted hydraulic pump.*

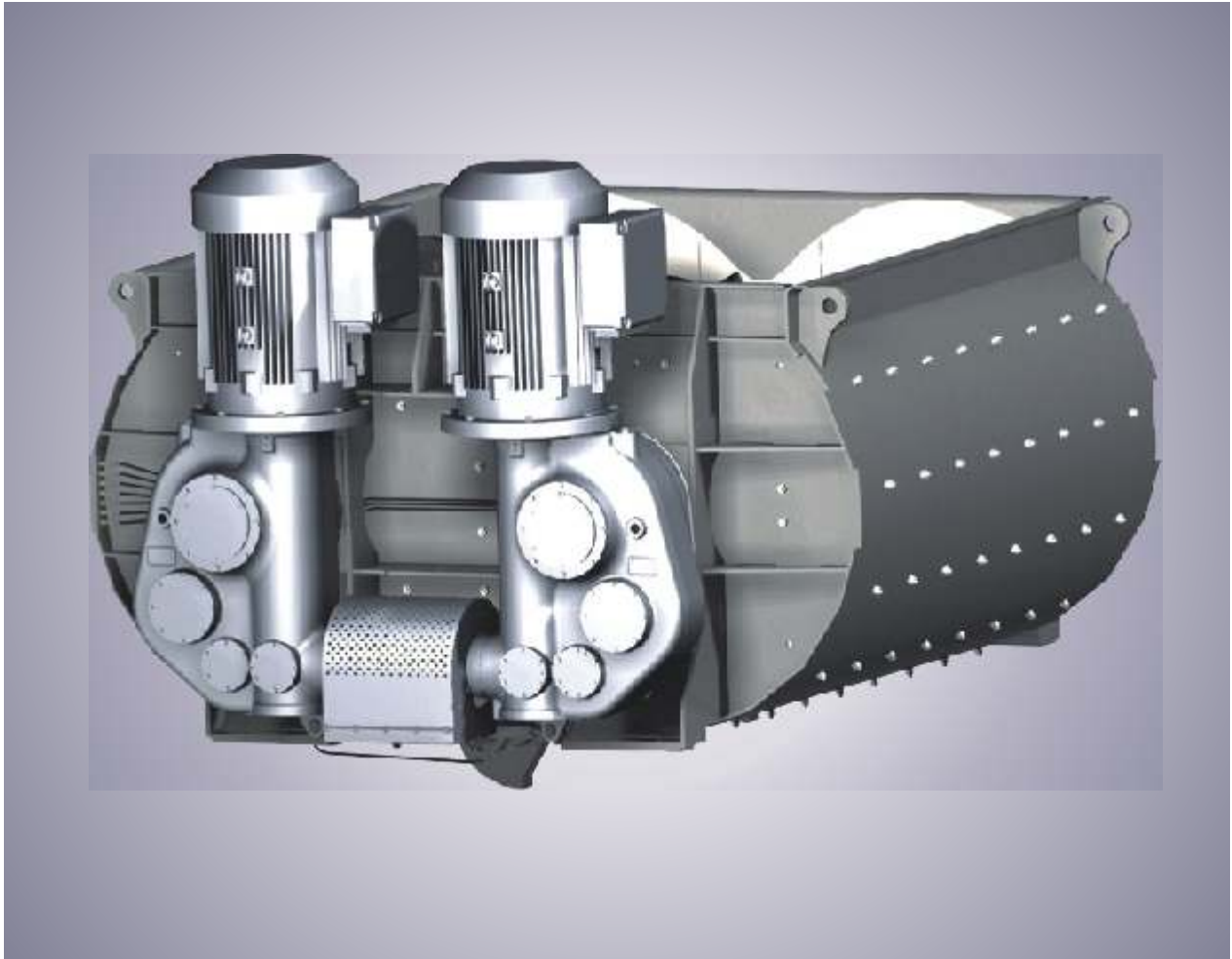
The mixing trough is lined with replaceable wear plates on the inner and outer wall as well as on the bottom. The mixing trough bottom can be lined either with normal wear plates made of special steel or special chilled cast iron tiles depending on the characteristics of the aggregates to be handled. The wear plates on the bottom can be turned upside down. Due to all these characteristics we have been able to extend the lifetimes of our mixers considerably.

The pan mixer can be equipped with upto three hydraulically actuated discharge gates which are driven by the mixer motor. The dust-proof mixer cover can be opened up to 70% for maintenance and cleaning.

High-pressure cleaning system is available as additional equipment.

## STETTER TWIN-SHAFT MIXER.

EXCELLENT MIXING EFFECT AND TIME SAVING



*Separated : sealing and bearing.*



*The discharge gate.*



*The pneumatic discharge gate operation*



Excellent mixing effect with short mixing and discharge times, a wide range of applications as well as low wear: these are the characteristics of Stetter twin-shaft mixers compact in design with two mixing shafts rotating against each other, they are made of high-strength heat-treated steel for a long life.

Thanks to Stetter's heavy-duty mixing unit, an intensive agitation of the mixture is reached resulting in fast homogeneity of the mixture. The new compact drive concept offers numerous advantages in daily operation. At first there is an easy access to all components of the mixer for maintenance and repair. And, thanks to the monobloc design with motor and gearbox forming one unit, misalignments and deviations in angles between the axles cannot cause problems.

The mixing arms, made of high-quality cast steel, are arranged on the two hexagonal mixing shafts in a spiral shape. A large overlapping of the tools and a low filling factor were envisaged. An intensive mixing of the concrete is guaranteed together by the flow-supporting blade configuration.

Moreover, the low peripheral speed and the special design of the mixing tools as well as the application of high-quality cast material provide for a long service life of the wear parts.

Even more: the mixing shafts are sealed towards the interior with a slide ring seal. An automatic grease lubrication system can be supplied for these four slide ring seals as an option.

Durable spherical roller bearings are used for the mixing shafts. The bearings are arranged outside of the shaft sealing and accommodated in a separate housing. All these features result in low maintenance requirements and save time and cost.

Optionally available: a special mixing unit for coarse grain for production of dam concrete. This enables the use of aggregates up to a grain size of 150 mm.



*The robust and high - capacity mixing unit is designed to be particularly energy saving*

## SOPHISTICATED IN THE DETAILS.

### THE HORIZONTAL MIXING PLANTS HN 1.0 HN 4.0



*The large - dimensioned skip with an optimum shape guarantees complete emptying.*



*The mixer discharge for filling truck mixers.*



*Discharge into open truck.*



*Forced dedusting from the mixer.*



*The cement weighing system for up to seven types of cement.*



*Ice weighing system for weighing of flake ice.*

No matter which plant you opt for:

These are the advantages you receive, thanks to the compact modular system of Stetter horizontal mixing plants:

- Fast erection
- Accessibility all around
- Very spacious and convenient mixer and weighing platform
- Clear arrangement and ease of maintenance
- Optional supply of a mixer ventilation filter
- Optional supply of a mixer cleaning system
- Optional supply of an ice weighing system
- Optional supply of a powder weighing system
- Optionally available with housing
- Optional supply of a camera system for the mixer
- Optional foundations for the complete plant for semi-mobile application



*Nozzle heads for clening of the mixer.*



*Admixture weighing system for chemical additives.*



*Water weighing system with discharge pump for pressurised feeding of water into the mixer.*



# STETTER CONTROL SYSTEM - MCI 360 / MCI 450

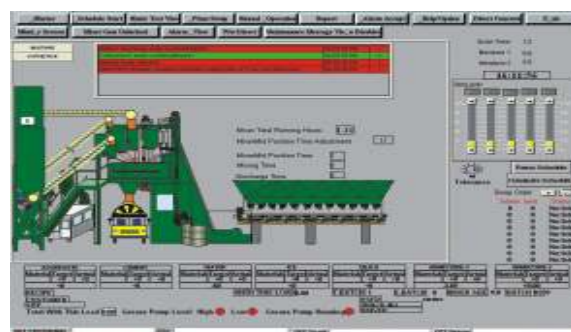
## QUALITY FROM OWN DEVELOPMENT AND PRODUCTION.

### MAIN FEATURES OF MCI 360 CONTROL SYSTEM

1. Schedule based batching - Not usable in case of generic interface enabling.
2. Maintenance schedule.
3. Cement batching silo can be changed in between incase of silo empty- Not usable in case of generic interface enabling.
4. Automatic calibration and manual calibration available.
5. All kinds of statistical reports are available.
6. Slump measurement (optional).
7. PID control based batching (addition to the material in air control).
8. Automatic batching after power recovery.
9. Centralized connection of load cell with PLC.
10. Common software for all Stetter plants ranging from M1 to H6.
11. Introduction of touch panel.
12. Introduction of membrane keypad instead of control desk.
13. Connectivity to USB camera (optional).
14. Customer credit locking system (optional)- Not usable in case of generic interface enabling.
15. Provision for slurry water batching.
16. Introduction of authority based password control.
17. Facility to divert the concrete from one customer to another (delivery docket) - Not usable in case of generic interface enabling.
18. Possibility for networking the plants (optional).
19. Option to integrate with Schwing 996 weigh bridge system.

### QUALITY AND RELIABILITY

We attach special importance to tried and tested first-class components when selecting the hardware. Only this way are we able to assure you of smooth operation, even under the most difficult conditions. Our control systems are checked with the most modern test and simulation tools during their development, an extensive final testing ensures constant high quality.



### FLEXIBILITY AND INVESTMENT SECURITY

The architecture of our software produced with the most modern methods of development in our own works guarantees the highest flexibility: thanks to their possibilities in configuration, software and system offer simple adaptation to your operating schedule-even if it changes in a few months.

Also, preparation of wiring diagrams and manufacture of switch cabinets is done in our own works. So we can optimally suit the control systems to our concrete mixing plants. Upon request, we integrate our control system also in external installations.

### MCI 450 Control System



The MCI450 is the improved version of MCI360 which was launched 7 years back. The MCI450 control system is known for its robustness. The main advantage in the system is it doesn't depend on any third party tool or editors to execute. This system is also known for its speed and accuracy.

## TECHNICAL DATA

Description	Unit	HN1	HN1.25	HN 2.25	HN 2.5	HN 3.0	HN 4.0	H 6.0
Capacity (compacted concrete with 30 s mixing time)	(m <sup>3</sup> /h)	60	70	100	110	120	160	240
Pan mixer (filling/compacted concrete)	(m <sup>3</sup> )	1.5 / 1.0	-	3.375 / 2.25				
Twin shaft mixer (filling/compacted concrete)	(m <sup>3</sup> )	1.5 / 1.0	1.875 / 1.25	3.375 / 2.25	3.75/2.5	4.5/3	6.0/4.0	9.0/6.0
Concrete discharge height	(m)	4.1	4.1	4.2	4.2	4.2	4.2	4.1
Height of mixer platform	(m)	5.3	5.3	5.9	5.9	5.9	5.9	6.2
Aggregate weighing system (inline silo)	(kg)	2500	3125	5625	6250	7500	10000	15000
Cement weighing system	(kg)	1125	1125	1125	1500	1500	2100	3000
Water weighing system	(kg)	600	600	600	800	800	1125	1500
Inline silo with capacity (5 bin)	(m <sup>3</sup> )	150	150	150	150	150	200	200
Filling width of each bin	(m)	3.16	3.16	3.16	3.16	3.16	3.5	3.5
Types of cement	upto	2/6	2/6	2/6	2/6	2/6	2/6	2/3
Water connection	DN	80	80	80	80	80	80	80
Operating pressure of water	bar	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4
Operating voltage	V	415	415	415	415	415	415	415
Admissible voltage fluctuation	%	+/-10	+/-10	+/-10	+/-10	+/-10	+/-10	+/-10
Mains frequency	Hz	50	50	50	50	50	50	50

Note :

1. Inline silo can be supplied with 4 or 5 or 6 bins based on customer requirement. Increased bin capacities are possible based on customer requirement.
2. HN plants upto the 3 m<sup>3</sup> mixer capacity, batching plants are available in both skip and inclined belt conveyor version. From HN 4.0 only inclined belt conveyor version is available



*Stetter plants are also used for precast applications with Pan / Planetary mixer.*





# STETTER HORIZONTAL MIXING PLANTS

Wherever quality is in demand.



# SCHWING - STETTER

## ALWAYS CLOSE TO THE CUSTOMER.



- Sales Branch
- Resident Engineer
- Resident Engineer with Spares Depot
- Service Centre with Spares Depot
- Dealership Support
- Customer Training Center



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An ISO 9001 : 2008 Company

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