

HN 1.5 - HN 6.0

Horizontal batching plants



MADE IN GERMANY
by SCHWING-Stetter

Hardened concrete capacity	80 to 184 m ³ /h
Mixer size	1.5 to 6.0 m ³
Row silo chambers	flexible (from 1 chamber)
Chamber volume	25 to 100 m ³ (per chamber)
Binder types	1 to 7

engineering future.



The horizontal batching plants from Stetter

Reliable performance

For decades, Stetter's HN batching plants have stood for high performance, consistent concrete quality and long-term cost-effectiveness at every location. Each of the eight plant sizes with a hardened concrete output of between 80 and 250 m³/h can be flexibly adapted to the respective installation site and variably equipped thanks to the numerous, tried-and-tested options. The development and production takes place exclusively in Germany and, in combination with the robust, fully galvanised steel construction and the proven Stetter twin-shaft mixer, guarantees a long service life and low maintenance costs. This guarantees excellent efficiency and reliability in concrete production.

Benefits and advantages at a glance

Powerful mixer

The Stetter twin-shaft mixer is the powerful centrepiece of the HN batching system. With its reliable direct drive and optimally shaped mixing blades, it offers the best conditions for a homogeneous mixing result. In contrast to other mixers, the bearings and seals of the mixer shafts are not a combined component but designed separately. This ensures excellent operational reliability and simplifies maintenance of the mixer. The twin-shaft mixer from Stetter therefore impresses with its high reliability, performance and low maintenance costs, not only in new systems.



Quality from Stetter

Stetter has been developing and manufacturing batching systems in Germany for more than 50 years. During this time, more than 8,000 batching systems have been realised for customers all over the world. New plants and modernisations are planned, manufactured and installed by an experienced team of engineers and skilled workers. For maximum reliability and efficiency in concrete production.



Flexible plant cladding

The requirements for the plant cladding are as varied as the locations of the batching plants. Stetter therefore offers suitable solutions for every requirement. The batching plant is optimally protected from wind and weather with cladding made of sturdy trapezoidal sheet metal. Alternatively, insulating panels in various thicknesses can also be used. This minimises the energy required to heat or cool the concrete, while increased fire protection requirements can be met with PU foam or mineral wool insulation. And if the batching plant is set up near a residential area, for example, a noise protection enclosure significantly reduces noise pollution.



Safe maintenance

Stetter batching plants offer a pleasant and safe working environment for high productivity thanks to their low maintenance requirements and well thought-out detailed solutions. Plant personnel can reach the mixer and weighing platforms with their generously dimensioned landings via wide steps. The compact design of the Stetter twin-shaft mixer allows an unobstructed 360° tour around the mixer and facilitates its maintenance. Numerous windows bring plenty of daylight into the batching plant and thus ensure optimum visibility.



Flexible installation, variable equipment

Every HN batching plant from Stetter can be customised to customer and site requirements thanks to a wide range of installation and equipment options. This allows each batching plant to achieve maximum performance and efficiency at its location. In extreme outdoor conditions, a heating or cooling system suitable for the batching plant reliably and efficiently ensures consistently high concrete quality.



High-pressure cleaning system

The automatic high-pressure cleaning system ensures clean conditions and high concrete quality. Up to 5 rotating cleaning heads clean the mixer thoroughly and reliably. The benefits: significantly shorter cleaning times, greater work safety, reduced water consumption.



Galvanised steel construction

The robust steel construction of every Stetter HN batching system ensures high stability and smooth operation. The high-quality, fully galvanised steel components ensure a long service life and low maintenance costs, even under difficult climatic conditions. The individual steel elements are connected to each other quickly and easily using bolted connections.



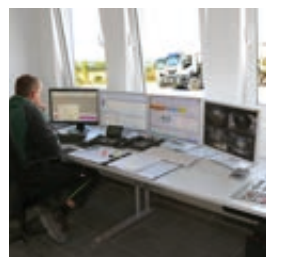
Pan mixers

Stetter pan mixers guarantee the production of quality concrete in all consistency ranges. They mix homogeneous concrete with short mixing times and low energy consumption. We also equip the mixers with two fast-rotating agitator tools for a wide range of applications with the highest demands on mixing quality. The result is an extremely homogeneous mix. The Stetter pan mixers are available in sizes from 1.5 to 2.67m³ batch size of hardened concrete.



Batching plant control

The MC 500 batching plant control system developed by Stetter is the right choice for all batching plants. In addition to dosing and weighing control, this powerful and versatile mixing plant software can also be used for reliable and convenient scheduling, fleet management and invoicing.



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Storage and feeding of the aggregate

In Stetter's horizontal batching plants, the aggregate is stored in row silos made of steel or, on request, in concrete silos provided by the customer. The row silo chambers are filled using a wheel loader (ramp required) or a conveyor belt system. Three installation variants are possible for storing and feeding the aggregate.

The row silo

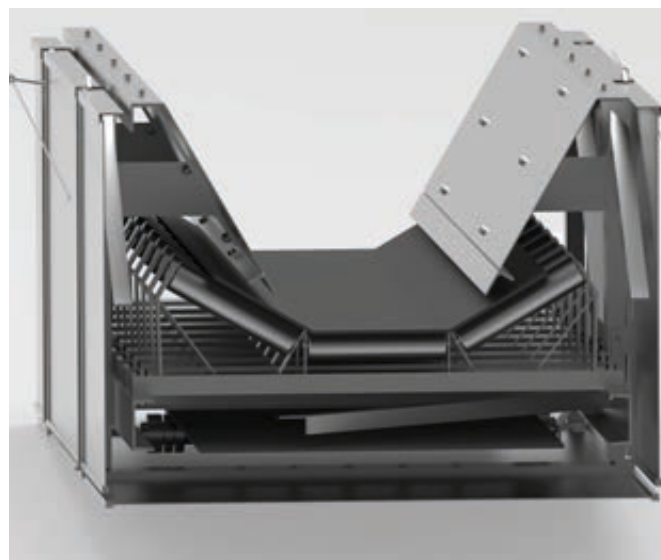
The row silos from Stetter impress with their robust construction, hot-dip galvanised surface and wide range of variants. The number and volume of the silo chambers can be freely combined and any number of silo chambers can be combined to form a row silo. The chambers can be designed with a volume of 25, 39, 45, 52, 60, 80 or 100 m³ (intermediate sizes are optionally available) and the row silo is clad with trapezoidal sheet metal or, if required, with insulating panels.



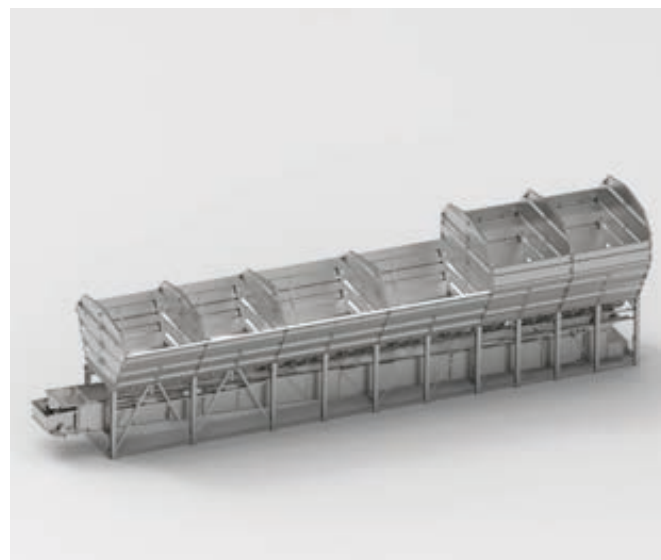
Well protected: remote-controlled hinged lid



Quality assurance: gratings to protect against oversize grain



Weighing belt



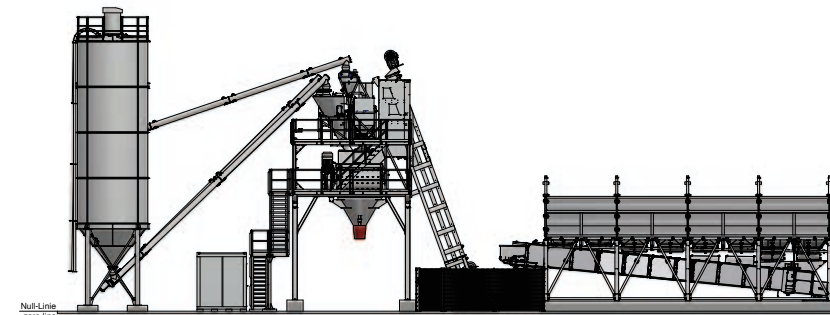
Full flexibility: the number and volume of the row silo chambers can be combined as required

The installation variants

Row silo with feeder

Variant 1

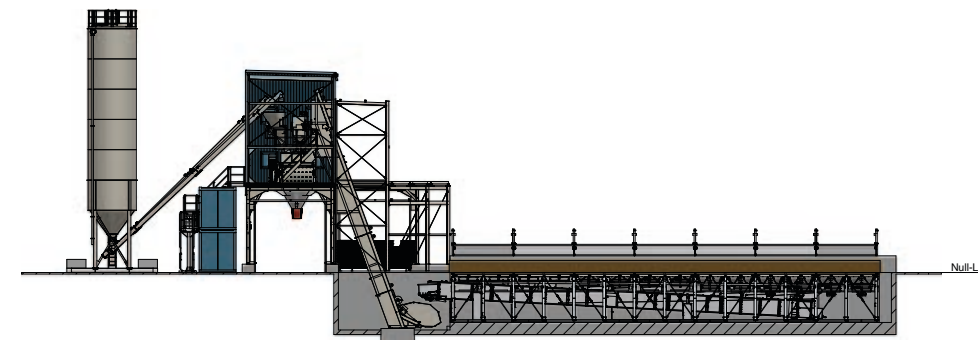
In this variant, the row silo and feeder lift are installed at ground level. Once the weighing process is complete, the conveyor belt transports and transfers the aggregates to the feeder bucket of the batching plant. The row silo chambers are filled using a wheel loader via an access ramp.



Lowered row silo with feeder

Variant 2

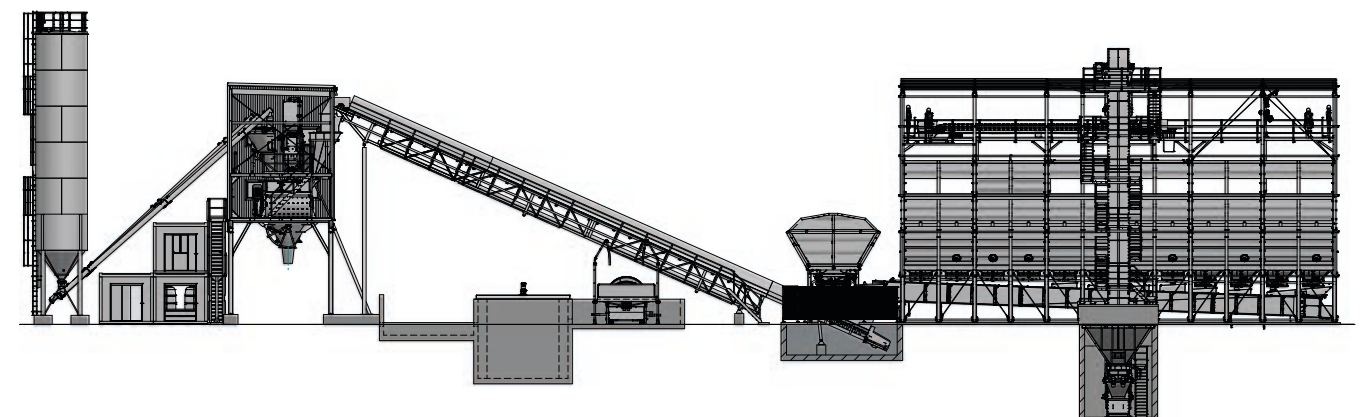
Lowering the in-line silo into a pit is economically interesting. This means that the required access ramp can be shortened or even omitted completely. This reduces the space required and lowers the operating costs of the wheel loader. In winter operation, the pit design facilitates plant logistics and minimises the effort required to heat the row silos.



Row silo with high conveyor belt

Variant 3

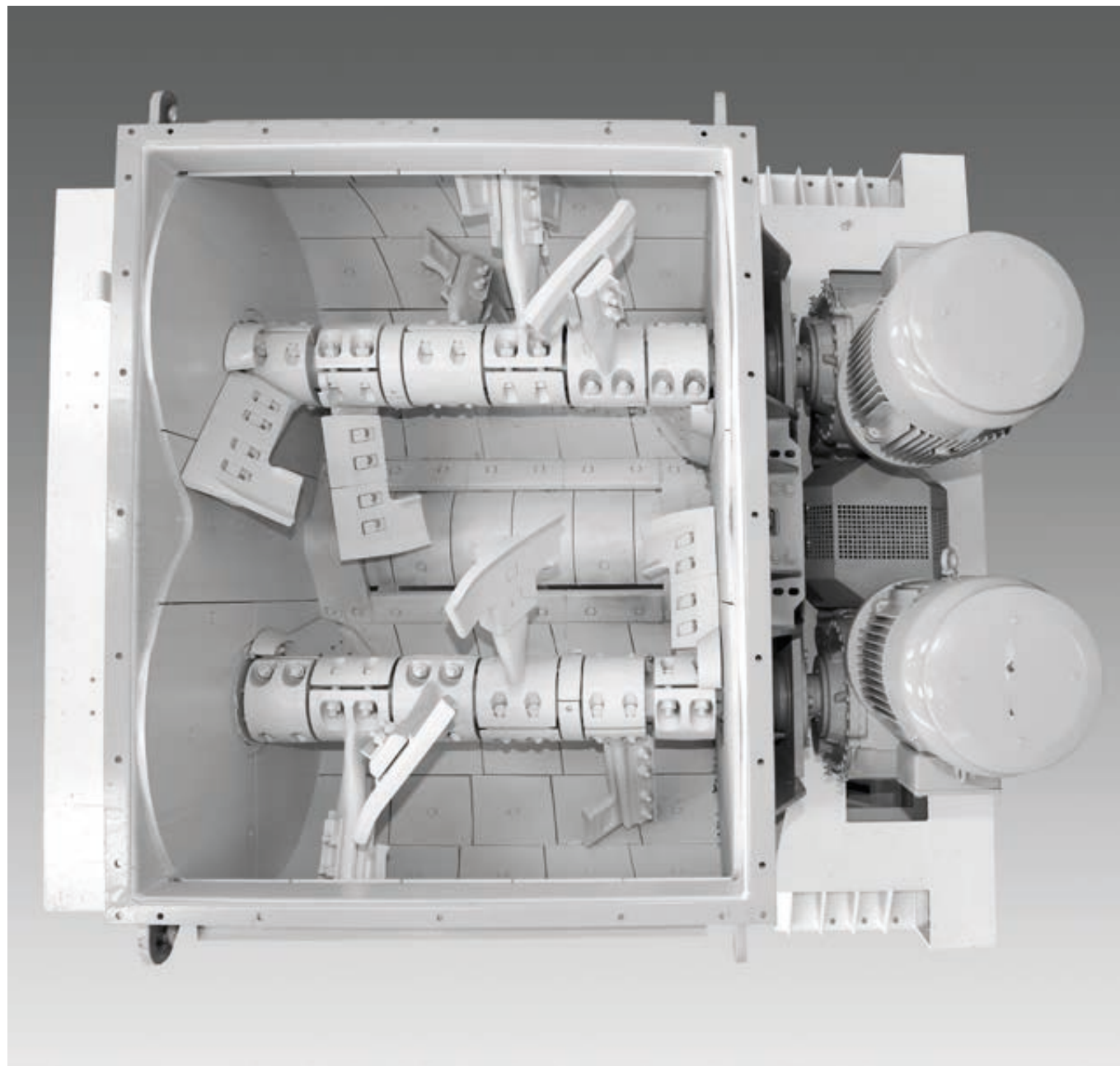
When the aggregate is fed to the batching plant via an elevated conveyor belt, the entire feeding system is omitted. Here too, the aggregates are dosed via a calibratable weighing conveyor belt. Once the weighing process is complete the weighing belt transports and transfers the aggregates to the high conveyor belt. The incline angle of the high conveyor belt is between 16° and 24°. The high conveyor belt transports the aggregate to an intermediate silo above the mixer. From there, the aggregates flow directly into the mixer via a closing flap.



The twin-shaft mixer

Perfection in mixing technology

The Stetter twin-shaft mixer is the powerful centrepiece of the HN batching plant. Its high reliability and excellent mixing effect provide the best conditions for a homogeneous mixing result and consistently high concrete quality. The flow-optimised blade shape of the mixing tools ensures intensive mixing material movement and enables fast mixing homogeneity with short mixing times. A long service life and low wear costs are achieved through the use of high-quality cast materials. A special coarse-grain mixer is optionally available for the production of dam concrete, with which aggregates up to a grain size of 160 mm can be processed.



Efficient and low-maintenance drive

Instead of a belt drive, the twin-shaft mixer from Stetter uses a powerful direct drive via bevel helical gears. The motor and gearbox form an efficient unit. Misalignment or angular errors between the mixer shafts, which can occur with a belt drive, are ruled out by the design of the direct drive. Together with the excellent maintenance accessibility, this minimises the service requirements for the Stetter twin-shaft mixer.



Separate bearings and seals

In contrast to other mixers, the bearings and mechanical seals of the mixer shafts in Stetter mixers are designed separately and are not a combined component. This ensures greater operational reliability and simplifies maintenance of the mixer. Automatic grease lubrication can be supplied as an option for the four mechanical seals. An extension to all lubrication points of the twin-shaft mixer is possible. This ensures the functionality of the mixer and prevents damage caused by a lack of or insufficient lubrication.



Powerful discharge gate

Thanks to its large opening width, the pneumatically driven discharge gate ensures that the mixer is emptied quickly, thus guaranteeing a high hardened concrete output. The opening positions can be individually adjusted. The discharge gate can also be hydraulically driven on request.



Batching plant on-board computer

Organised work for all batching plants

The new batching plant on-board computer not only allows operating statuses to be queried and maintenance schedules to be displayed, but the operating hours and potential error messages are also shown on the high-resolution colour display in a user-friendly way. The automatic mixer paddle positioning (AMP) for maintenance and cleaning of the system can be conveniently displayed and controlled via the on-board computer, as can the high-pressure cleaning system. All relevant images from monitoring cameras (e.g. for mixer, feeder, discharge hopper, etc.) can also be displayed on the on-board computer.

The display of the on-board computer can also be mirrored on the control PC!



Automatic mixer blade positioning



The new automatic mixer blade positioning allows the user to select both the respective mixing shaft of the twin-shaft mixer and the desired blade via the touch display of the on-board computer and have it moved to the respective maintenance position. This means that each mixer blade can be moved to predefined positions for maintenance and cleaning, while the mixing tool is shown precisely on the on-board computer display.

New: Working air gap display

Maintenance of the feeder brake

With the new maintenance display of the on-board computer, it is possible for the first time to ...

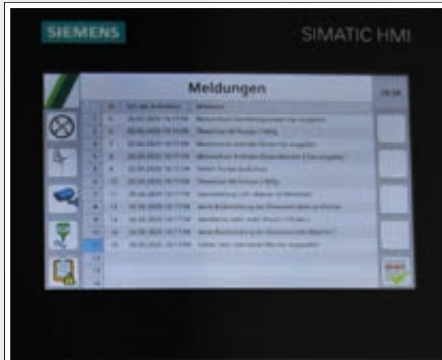
- the total operating hours of the feeder drive
- the number of journeys
- information on the oil change of the gear motor

... the status of the working air gap of the feeder brake can now also be displayed digitally and the wear shown graphically.

Work safety and simplicity taken to the next level!



Further display options



Further display options (also as part of a retrofit)	
Operation of the Stetter high-pressure cleaning system via display	Continuous pressure and temperature monitoring
Individual cleaning times can be set for each head	Display and documentation of possible error messages
Discharge hopper cleaning and additional cleaning heads can be displayed	Display of all surveillance camera images

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Options

The proven options from Stetter further increase the efficiency and performance of the HN batching system.

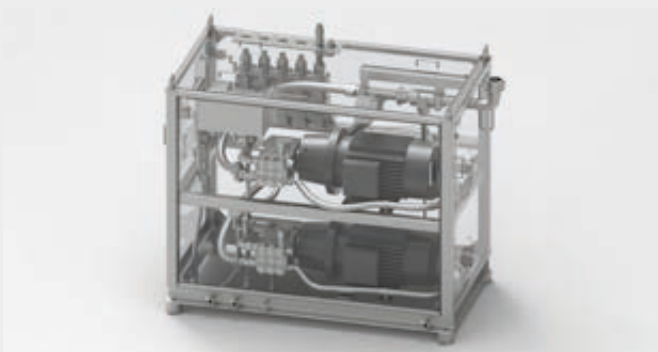
Cleaning hopper and funnel for self-collection



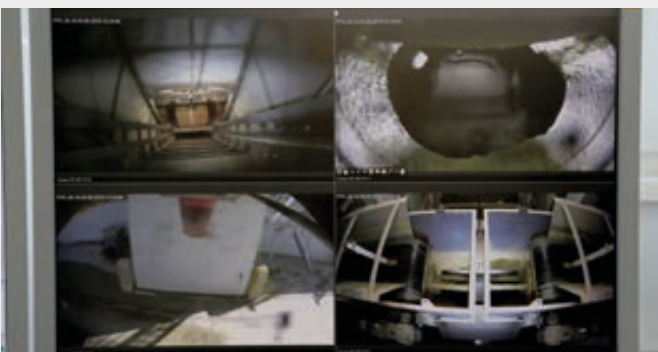
Cleaning funnel



High-pressure cleaning system



Camera system (with mixer camera)



Lowerable discharge funnel with drip protection



Cooling systems



More options

forced dedusting for mixers
(series: Airbag)

Additive scale
additive container

automatic outlet hopper cleaning
(only in conjunction with high-pressure cleaning system)

System panelling
(insulated/uninsulated/mobile for quick relocation)

mobile foundations
Crane rail (for mounting a maintenance crane)

heating systems



Technical data

Performance		HN 1.5	HN 2.25	HN 2.5	HN 3.0
Hardened concrete output* (for lorry loading) max.	m³/h	86	113	125	150
Hardened concrete output* (with tipper loading) max.	m³/h	80	104	111	122
Mixer					
Type (T = pan mixer / DW = twin-shaft mixer)		T 1500 / DW 1.5	T 2250 / DW 2.25	DW 2.5	DW 3.0
Drive power	kW	55 / 2 x 30	2 x 37	2 x 37	2 x 55
Filling quantity (volume before mixing process)	m³	2.25	3.375	3.75	4.50
Hardened concrete (volume after mixing process)	m³	1.50	2.25	2.50	3.00
Number of batches	1/h				
max. grain size round / crushed					
Row silo					
Number of chambers		ab 1	ab 1	ab 1	ab 1
Capacity per chamber*	m³	25, 39, 45, 52, 60, 80 und 100 (intermediate sizes optionally possible)			
Filling edge (from ground level)	m	4.95	4.95	5.10	5.10
Weighing capacity of the weighing belt	kg	3,700	5,600	6,250	7,500
Scales					
Binder scale Cement, fly ash, stone powder ...					
Weighing capacity (weight / volume)	kg / m³	1,500 / 2.0	1,500 / 2.0	1,500 / 2.0	1,500 / 2.0
Binder types max.		7	7	7	7
Spirit level, weighing capability	kg	1,100	1,100	1,100	1,100
Powder weigher, customised					
Electronic					
Connected load (approx.)	kVA	180	225	250	330
Operating voltage	V / Hz	400 / 50 (Adaptation to any other country-specific voltage possible)			

Performance		HN 3.35	HN 4.0	HN 5.0	HN 6.0
Hardened concrete output* (for lorry loading) max.	m³/h	165	190	230	275
Hardened concrete output* (with tipper loading) max.	m³/h	132	148	173	184
Mixer					
Type (T = pan mixer / DW = twin-shaft mixer)		DW 3.35	DW 4.0	DW 5.0	DW 6.0
Drive power	kW	2 x 55	2 x 75	2 x 90	2 x 110
Filling quantity (volume before mixing process)	m³	5.025	6.00	7.50	9.00
Hardened concrete (volume after mixing process)	m³	3.35	4.00	5.00	6.00
Number of batches	1/h				
max. grain size round / crushed					
Row silo					
Number of chambers		ab 1	ab 1	ab 1	ab 1
Capacity per chamber*	m³	25, 39, 45, 52, 60, 80 und 100 (intermediate sizes optionally possible)			
Filling edge (from ground level)	m	4.95	4.95	5.10	5.10
Weighing capacity of the weighing belt	kg	8,375	10,000	12,500	15,000
Scales					
Binder scale Cement, fly ash, stone powder ...					
Weighing capacity (weight / volume)	kg / m³	2,200 / 2.9	2,200 / 2.9	2,500 / 3.3	3,000 / 4
Binder types max.		7	7	7	7
Spirit level, weighing capability	kg	1,100	1,100	1,500	1,500
Ice scales					
Additive scales					
Electronic					
Connected load (approx.)	kVA	350	420	450	500
Operating voltage	V / Hz	400 / 50 (Adaptation to any other country-specific voltage possible)			

*during operation with 30 s mixing time

**geometric filling



youtube.com



instagram.com



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SCHWING concrete pumps. Efficiency as standard.



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