

fibo intercon

Semi-mobile concrete batching plants C1200, C1800 and C2200



Your partner in concrete solutions



A compact solution providing reliability and great economy



Combines flexibility, performance and profit

With a semi-mobile batching plant, it is possible to produce concrete at the same place over a longer period and then move on to new jobs. The robust container frame is equipped with a draw hook, which allows the batching plant to be pulled on to a lorry with a hook hoist. Alternatively it can be lifted on to a lorry with a crane.

The batching plants require no poured foundation and they can be placed on any even surface. You can start producing concrete within a few hours after the batching plant is assembled. All you have to do is connect electricity, water and any other equipment, then fill sand and gravel in the hoppers.

The powerful pan mixer is equipped with adjustable mixing arms with robust mixing shovels and side scrapers, providing a short cycle time and a high uniform concrete quality. A high quality is also ensured by the integrated control system, which controls and monitors all processes and connected equipment, e.g. a belt conveyor and/or cement silos.

A hook container model is a profitable investment which will soon pay for itself and return a profit. All wearing parts are produced in robust materials and can be replaced separately, which minimizes operating costs. There is free access to all of the plant functions,

facilitating daily cleaning, maintenance and service.

As a part of the concept, we offer you a thorough training in how to operate and maintain the plant at our factory in Denmark. This will give you the opportunity to become familiar with all functions

Technical specifications of C-models:



We offer three concrete batching plants on a hook container frame:

Model		C1200	C1800	C2200
Volume (gross/net)	L	1200/800	1800/1100	2200/1400
Capacity	M ³ /hour	10-16	20-30	25-45
Motor	kW	15	30	55
Mixing arms/side scrapers	pcs	6 / 1	6 / 1	8 / 1
Load cells	kg	3 x 2000	3 x 5000	3 x 5000
Weighing accuracy	%	+/- 0.5	+/- 0,5	+/- 0.5
Dosing accuracy	%	+/- 3	+/- 3	+/- 3
Recipes	pcs	50	50	50
Aggregate hoppers	pcs	2 x 2.4 M ³	2 x 2.4 M ³	2 x 2.4 M ³
Water tank	L	250/500	500	500
Dimensions (W x H x L)	M	2.5 x 2.4 x 5.7	2.5 x 2.5 x 5.9	2.58 x 2.65 x 6.0
Weight	kg	3900	4800	5200
Power	volts	3 x 400 volts	3 x 400 volts	3 x 400 volts
	A/KVA	32A 22KVA	80A 55KVA	125A 86KVA
Generator size	KVA	60 KVA	80-100 KVA	150 KVA



1

Hook container frame

The batching plants are mounted on a joint hook container frame in welded steel with covering. The draw hook can be dismantled, and thus helps to prevent theft.



2

Pan mixer

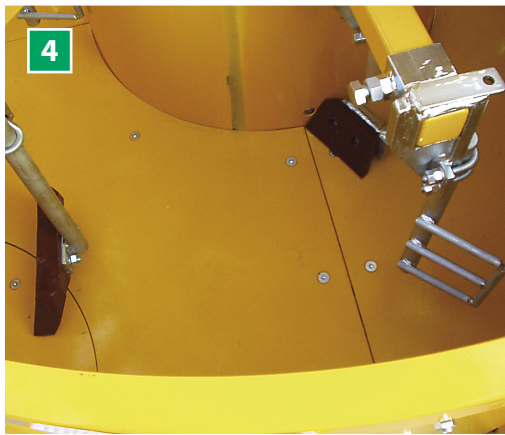
Made in hard-wearing Hardox steel. C1800 and C2200 have an internal lining of replaceable, sectioned wearing plates. Equipped with a gear motor for optimized effect, automatic radial opening, inlet for cement auger and inspection hatches.



3

Hopper

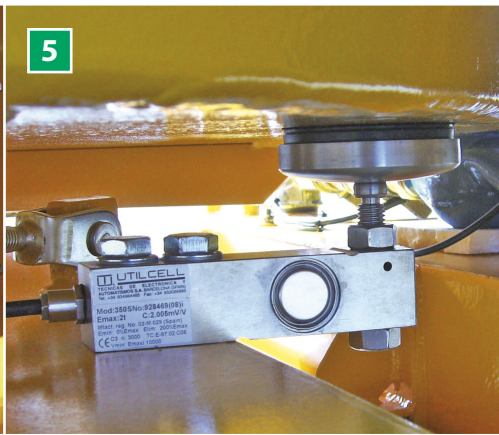
Integrated twin hopper for two types of aggregate. Each hopper holds $2 \times 2.4 \text{ m}^3$. It is made in an all-welded steel plate with reinforced corners and two separate feed belts for the dosing of aggregates.



4

Mixing arms and side scrapers

Adjustable mixing arms and side scrapers in steel and hard PVC. Equipped with safety bolts to prevent large stones from seriously damaging the mixing arms.



5

Load cells

The pan mixer is placed on three electronic load cells with an accuracy of less than $\pm 0.5\%$.



6

Control System

Possibility of manual, semi-automatic and automatic operation and PC interface. No previous knowledge is required and can be delivered with the language version desired. Stores 50 recipes. Dosing accuracy: $\pm 0.5 - 2\%$



7

Discharge gate

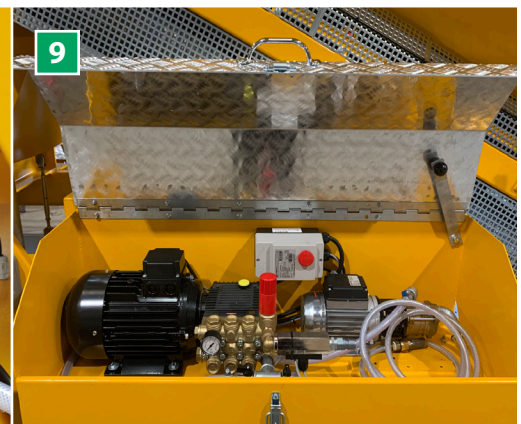
Possibility of manual, semi-automatic and automatic emptying. Complete with overload protection and position detector.



8

Flow meter

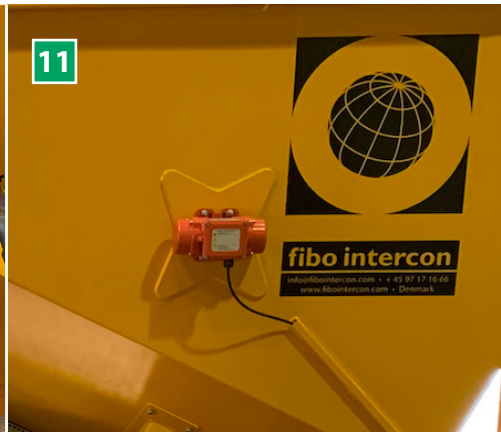
Parallel dosing of water and aggregates for reduced cycle time and pan mixer wear and reduced energy consumption.



9

Equipment

All models are delivered with a high-pressure cleaner, while additive pumps are optional.



10 Additive pump (optional)

High-quality dosing pump 0,25 kW for additive liquid, with 3/8" suction hose, check valve, and stainless steel strainer. Possibility for installation of 1 - 4 additive pumps.

11 Vibrators (optional)

Vibrator MVE 100/3 for vibrating sand out of hopper, with cabling and switch. Require placement on the left or right hopper side.

12 Flow measurement chemistry (optional)

Electromagnetic flow measurement, 1/2" in stainless steel, max. 16 bar, temperature -10 to + 70 °C, minimum conductivity 20 µS / cm. The flow measurement guarantees a dosing accuracy to +/- 1 % (repeatedly +/- 0.2 %), according to EN 206-1.



13 Hook container frame (optional)

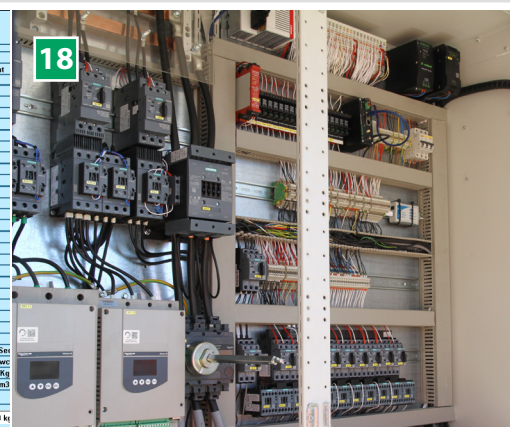
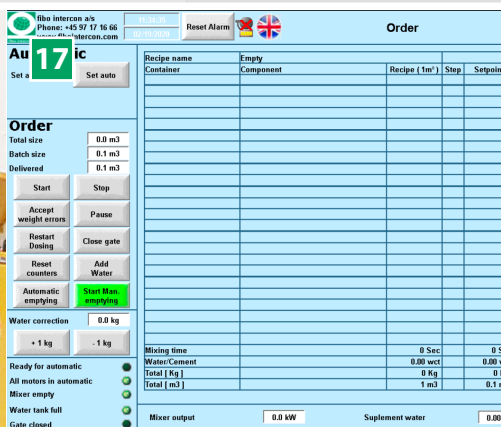
Clarify the hook lift frame according to DIN 30722, EN or another std. with the customer. The hook lift frame makes it easy to pull the plant onto a lorry with a hook hoist. Alternatively, it can be hoisted up onto a truck with a crane.

14 Water heating (optional)

Electric heating in the water tank for frost protection. Complete with thermostat and switch in control cabinet for automatic operation and frost protection. Power 4 kW. Voltage 3 x 400 volts, 50 Hz or 7.5 kW.

15 Insulation (optional)

Liquid supply lines are provided with a trace heating tape and additionally insulation. The chemistry and high-pressure cleaner box are provided with a radiant heater.



16 Enlarged silo sides (optional)

Get a capacity of 60 % more. The enlarged silo sides for hopper gives 1.5 m³ more in each hopper, so the total volume in each hopper is 3.9 m³. With these enlarged hopper sides, there is enough sand/stone for 3/4 hour.

17 Wattmeter (optional)

KW measurement on the mixer motor to measure the load of the motor, to decide the viscosity of the concrete. The viscosity gives control over the water/chemical ratio in the concrete so that an equal target/flow number is achieved for the concrete.

18 Frequent converter (optional)

Frequent converter on mixer motor to achieve the perfect speed in the mixing sequence. The frequent converter can reduce the generator size by 25 %.



- 19 Second outlet on mixer (optional)**
PLC controlled automatic and electro-mechanical radial mixer opening with a position switch, including an additional seal at the opening for waste concrete, or an additional automatic emptying outlet for cleaning the batching plant.

- 20 Water protection cover (optional)**
Removable cover made in heavy duty PVC, to protect material hopper from the elements and for easy cleaning of the material bunker.

- 21 Remote control (optional)**
Remote control with the functions: auto start / stop mixing system, - open / close emptying slide.



- 22 Fibo Link cloud system (optional)**
The software controls the batching process of the concrete batching plant. This means the data is safe; it can be used for automating documentation, improving productivity, delivering live quality control and lots more. See separate document for Fibo Link.

- 23 Spare parts (optional)**
Spare parts kit for mixer arms consisting of mixer shovels, mixer arms, finger scrapers, fittings, safety bolt and side scraper.
Included in Fibo Service+

- 24 Wear plates (optional)**
Replaceable sectioned wearing plates in Har-dox steel for bottom and side of the pan mixer incl. bolts, nuts, and disks. (OBS! Wear plates for 1200 models, needs to be welded on).



- 25 Belt conveyors**
Belt conveyors in belt widths of 0.8 m, 1.0 m, and 1.2 m and lengths of 4 - 14 m. Available mounted on either wheel, height-adjustable legs, or a frame with draw hook. All conveyors are delivered complete with drum motor, integrated gearbox, inlet, and lifting devices for easy transportation.

- 26 Big bag cement silo with ø193 auger**
Big bag silo in fully welded construction with height-adjustable support legs. Complete with cement auger, counterweight for cement auger, cone with outlet flange, top hatch, a grid for cement inlet, cutter for big bags, control unit, a set of electrical wiring and connection and lifting devices.

- 27 Vertical cement silos**
Vertical cement silos with capacities between 15- 35 m3. They are designed for filling with big bags or cement tanker. The vertical cement silos can be delivered with several options. The choice of options will depend on the shape and purpose of the silo.

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28

Horizontal cement silos

Horizontal cement silos with capacities between 18- 38 m³. The horizontal cement silos can be delivered with a number of options. The choice of options will depend on the purpose of the silo.

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Cement auger with gearbox

Available in several lengths. All augers are delivered complete with either flange or universal ball joint inlet, flange for butterfly valve, cylindrical outlet, inspection hatch under the inlet. Etc.

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Concrete pump

The concrete pump is a moveable stamp pump that is hydraulically controlled with a full detector, motor and control system.

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Level sensor for concrete pump

Level sensor installed in concrete pump. The sensor ensures an automatic opening of the mixer gate to give a better flow at the concrete pump.

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Control cabin

The Control Cabin is available in various specifications. We offer a number of control cabin options that can be customized to meet your particular requirements.

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Test laboratory

The fibo intercon Test Laboratory in Container is designed for use on remote sites, enabling the routine testing of soil and concrete to be carried out efficiently. **See separate document for the laboratory.**

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34

Generator

High-quality diesel generator for off-grid power supply. 30 - 200 KVA. Possibility of adding emissions filter.

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Moulds

Moulds for interlocking concrete blocks. Based on a thought out reconfigurable design, to produce various block shapes and sizes from cast concrete.

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Vibrating poker

A concrete vibrator is a handheld electric concrete vibrator, designed for removing air bubbles from freshly placed concrete.

High-quality concrete solutions

Many years of experience in the industry has made fibo intercon a leading supplier to the global concrete industry. We manufacture and deliver both mobile, semi-mobile and stationary concrete batching plants as well as production equipment and complete concrete systems.

In our production, we only use state of the art technologies and methods to ensure our customers the best quality, efficiency, and reliability.

Over the years, we have been developing and delivering high quality solutions to customers all over the world. The products delivered have ranged from standard batching plants to unique customized solutions, and our batching plants have been used for both small and large scale building projects.

fibo intercon strives to provide quick and competent service. We have developed our own representative network in several countries, and our service technicians are ready to go to your place and help you with the installation and servicing of your batching plants and with the training of your employees.

France

A C2200 batching plant with belt conveyor at a building site in northern France. The batching plant has been used, among other things, for several recycling projects.



Kabul, Afghanistan

C1200 batching plant with additional hopper for aggregates and belt conveyor. The batching plant is used for concrete production in the Afghan capital.



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