fibo intercon

Semi-mobile concrete batching plants
FP1200, FP1800 and FP2200

Your partner in concrete solutions

fibo intercon

A compact solution providing reliability and great economy

Well thought out efficiency and cost effectiveness

Our FP-modesl are an ideal solution for mining and tunnel projects, as it is easy to transport, quick to install, and easy to operate.

This compact, semi-mobile mixing plant has a capacity of 10 m^3 - 45 m^3/ hour, depending on the mixer size.

Our FP-models are a highly flexible solution as it is fast and easy to assemble. All you have to do is connect electricity, water, and any other nessary equipment.

This flexible and reliable plant can mix several different types of concrete.

Our FP-models are equipped with a powerful pan mixer in hard-wearing Hardox steel. The pan mixer is equipped with adjustable mixing arms with robust mixing shovels and side scrapers; this ensures uniform concrete quality and the shortest possible cycle time.

High quality is also ensured by the integrated control system, which controls and monitors all processes and connected equipment, e.g., conveyor belt and cement silos.

Throughout the design phase of our FP-models, there are given thoughts to materials, wear-resistance, and durability. The result is a robust and solid batching plant with long service life and low service costs.

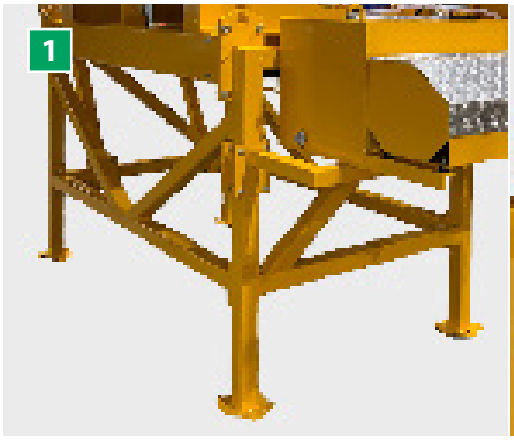
All surfaces on the plant are easy to clean with the high-pressure cleaner - and there is free access to maintain and service the plant.

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 its functions.

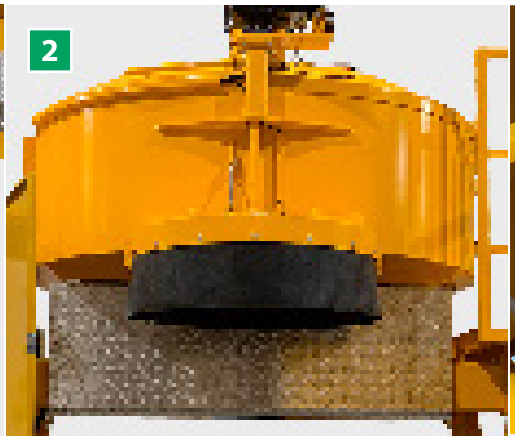
Technical specifications of our FP-models

We offer three semi-mobile concrete batching plants:

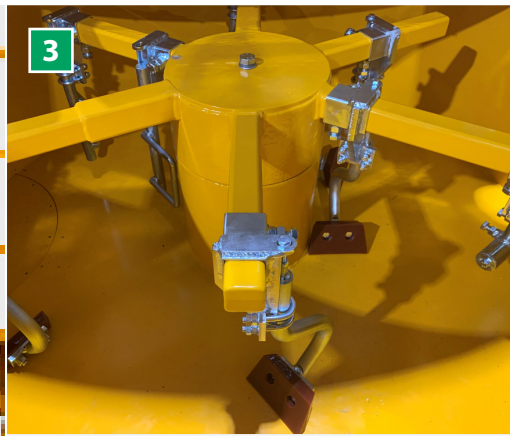
Model		FP1200	FP1800	FP2200
Volume (gross/net)	L	1200/800	1800/1100	2200/1400
Capacity	M^3/hour	10-16	20-30	25-45
Motor	kW	15	30	55
Mixing arms/side scrapers	pcs	6 / 1	6 / 1	8 / 1
Load cells	kg	3 x 2000	3 x 5000	3 x 5000
Weighing accuracy	%	+/- 0.5	+/- 0,5	+/- 0.5
Dosing accuracy	%	+/- 3	+/- 3	+/- 3
Recipes	pcs	50	50	50
Water tank	L	500	500	500
Dimensions (W x H x L)	M	2.1 x 2.3 x 3.7	2.3 x 2.5 x 4.2	2.55 x 2.65 x 4.4
Weight	kg	2500	4500	5500
Power	Volts	3 x 400	3 x 400	3 x 400
	A/KVA	40A 28KVA	80A 55KVA	125A 86KVA
Generator	KVA	60	100	150



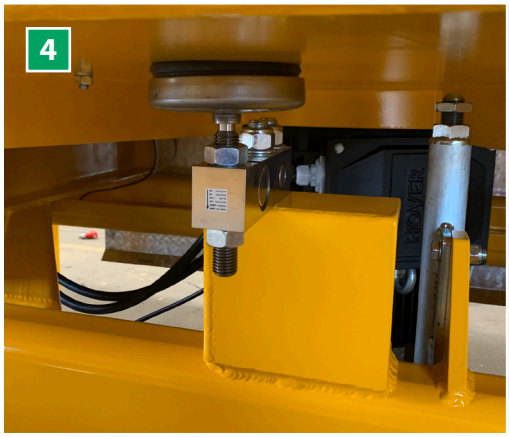
1 Steel frame
The batching plant is mounted on a joint steel frame.



2 Pan Mixer
Pan mixer in steel with an internal lining of replaceable, sectioned wearing plates and Hardox-steel-plate bottom and enclosure. The pan mixer is equipped with a gear motor for optimized effect, automatic radial opening, inlet for cement auger, and inspection hatches.

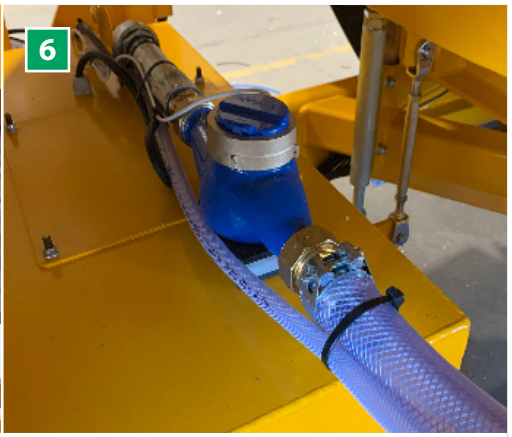


3 Mixing arms and side scrapers
Adjustable mixing arms and side scrapers in steel and hard PVC. Equipped with safety bolts to prevent large stones form seriously damaging the mixing arms.



4 Load cells
The pan mixer is placed on three 5000 kg electronic load cells with an accuracy of +/- 0,5 %.

5 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: +/- 0,5-2 %.

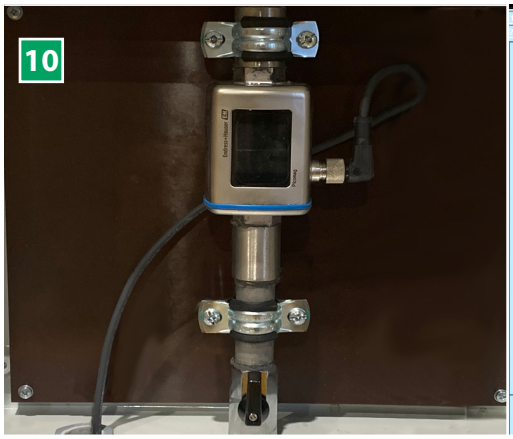


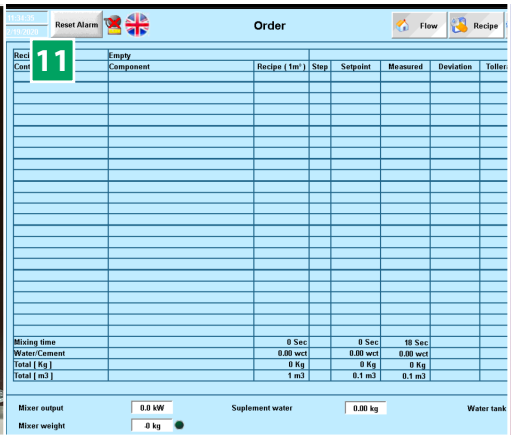
6 Flowmeter
Parallel dosing of water and and aggregates for reduced cycle time and pan mixer wear and reduced energy consumption.

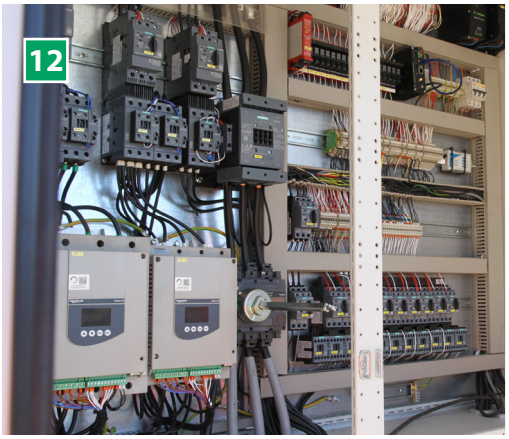
7 Discharge
Possibility of manual, semi-automatic, and automatic discharge. Complete with overload protection and position sensor.

8 Equipment
The standard FG-model is delivered with a high-pressure cleaner while the additive pumps are optional.

9 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.



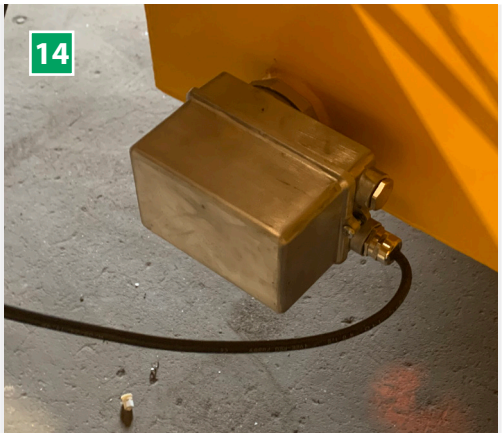




10 **Flow measurement chemistry** (optional)
Electromagnetic flow measurement, ½" in stainless steel, max. 16 bar, temperature -10 to + 70 ° C, minimum conductivity 20 µS / cm. The flow measurement guarantees a dosing accuracy to +/- 1 % (repeatedly +/- 0.2 %), according to EN 206-1.

11 **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.

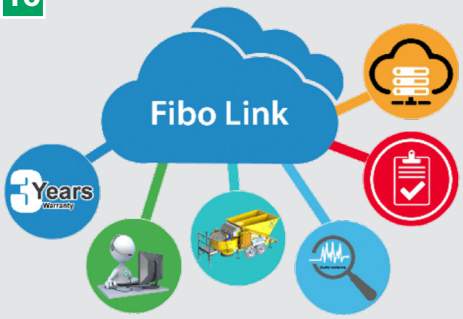
12 **Frequent converter** (optional)
Frequent converter on mixer motor to achieve the perfect speed in the mixing sequence. The frequent converter can reduce the generator size by 25 %.

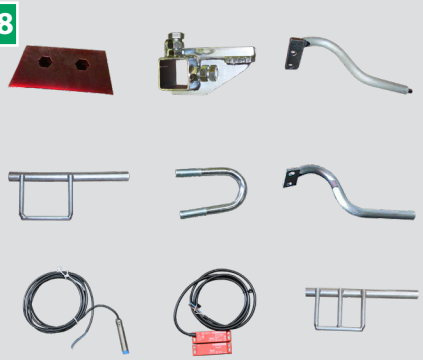


13 **Second outlet on the mixer** (optional)
PLC controlled automatic and electro-mechanical radial mixer opening with a position switch, including an additional seal at the opening for waste concrete, or an additional automatic emptying outlet for cleaning the batching plant.

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 insulated. The chemistry and high-pressure cleaner box are provided with a radiant heater.





16 **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.

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

18 **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+

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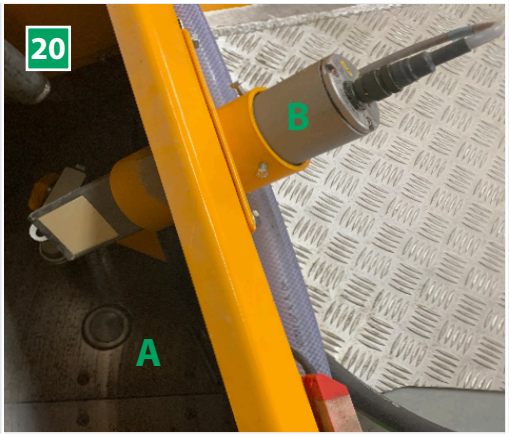

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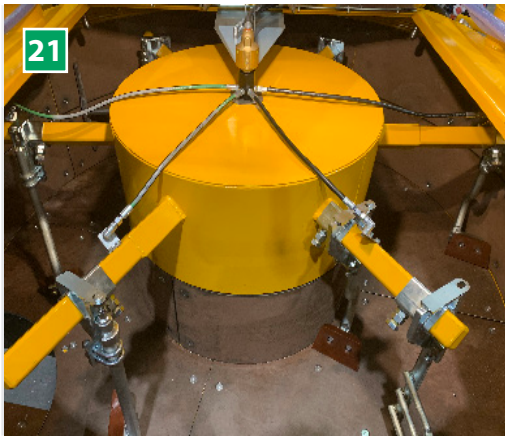

19 **Wear plates (optional)**
Replaceable sectioned wearing plates in Hardox steel for bottom and side of the pan mixer incl. bolts, nuts, and disks. (OBS! Wear plates for 1200 models, needs to be welded on).

20 **Moisture sensor (option A and/or B)**
The sensor consists of an electronic moisture meter in robust stainless steel with a ceramic surface. Most materials or products have a natural and varying moisture content. The moisture sensor can help ensure the quality of the final product.

21 **High pressure washing system (optional)**
Keep your concrete batching plant running cleanly & efficiently. The cleaning cycle performed by the high pressure water jets reduces maintenance and extends the life of the machine.

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22 **Water dosing system with rotating nozzles (optional)**
Automatic water dosing system through rotating nozzles, distributes the water better than the traditional way. Additionally, the regular intermediate dosing avoids deposit build-up on the mixer arms and reduces the cost for the mixer cleaning at the end of the working day.

23 **Cement Dust Collector (optional)**
An effective dust collection system is essential for compliance with environmental regulations as it reduces the amount of cement dust in the air. National Institute for Occupational health found that decline in lung volume are consistently associated with increases in exposure to cement dust.

24 **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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25 **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.

26 **Concrete buffer storages tank**
A storage tank are reservoirs for intermediate concrete storage & used for feeding concrete pumps. It secure a continuous flow for maximum effciency.

27 **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.

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28 **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.

29 **Load cells for big bag silo**
Load cells for an accurate level and weight indication of the content of the cement silo.

30 **Inliner**
Four bin feeder. Storage capacity of each bin is 10 m3. Our offered four bin feeders are available in different specifications, in order to meet numerous requirements of customers. Our feed bins are designed and built to last.

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31 **Vertical/Horizontal cement silos**
Cement silos with capacities between 15- 38 m3. all cement silos can be delivered with several options. The choice of options will depend on the shape and purpose of the silo.

32 **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.

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

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

35 **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.

36 **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.**

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.

Vyborg, Russia

2 x F2200 with two Big bag silos.

The batching plants were used for the construction of the North Stream gas pipe from Vyborg in the Russian Federation to Greifswald in Germany.

The concrete specifications were to a very high documented standard, which is why the civil engineering contractor selected fibo intercon to supply the batching plants because of the high dosing accuracy and the reliability of the plants.

Baghdad, Iraq

A B1200 batching plant working on the reconstruction of the Iraqi parliament building. Thanks to its flexibility and mobility, the plant can fit into narrow places.

Representative:

fibo intercon a/s

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