fibo intercon

Semi-mobile concrete batching plants
F1200, F1800 and F2200

Your partner in concrete solutions

fibo intercon

A compact solution providing reliability and great economy

Cost effective production of concrete and stabilized earth concrete

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This concrete batching plant on a steel frame is ideal for the production of both standard high-quality concrete and stabilized earth concrete. The capacity is 10-45 m^3 /hour for the production of standard high-quality concrete. For the production of stabilized earth concrete, a capacity of 50-80 m^3 /hour is possible.

The 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, which is ensured by the integrated control system.

Our F-models are a highly flexible solution that is fast and easy to assemle. All you have to do is connect electricity, water and any other equipment. And fill sand and gravel in the hoppers.

The batching plant 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.

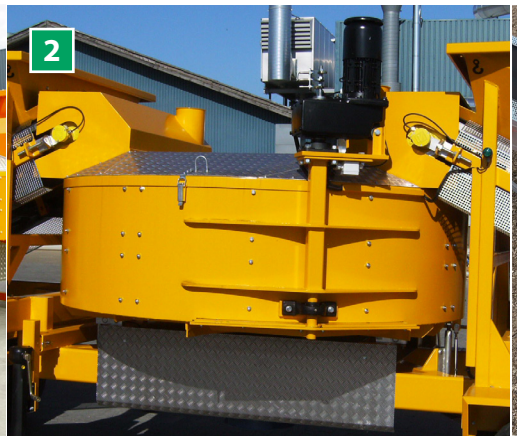
All of the plant components are easily accessible for facilitating daily cleaning, maintenance, and service.

Technical specifications of F-models

We offer three semi-mobile concrete batching plants:

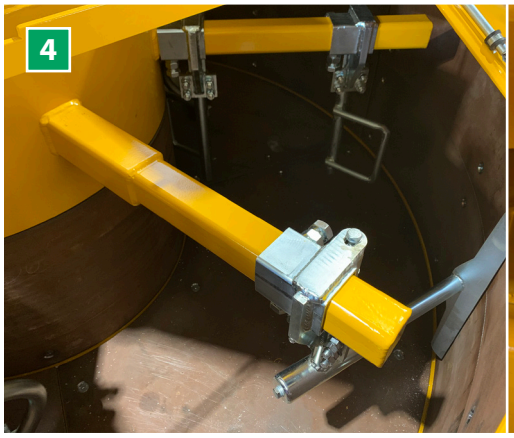
Model		F1200	F1800	F2200
Volume (gross/net)	L	1200/800	1800/1100	2200/1400
Capacity	M^3/hour	10-16	20-30	25-45
Motor	kW	15	30	55
Mixing arms/side scrapers	pcs	6 / 1	6 / 1	8 / 1
Load cells	kg	3 x 2000	3 x 5000	3 x 5000
Weighing accuracy	%	+/- 0.5	+/- 0,5	+/- 0.5
Dosing accuracy	%	+/- 3	+/- 3	+/- 3
Recipes	pcs	50	50	50
Aggregate hoppers	pcs	4 x 2.4 M^3	4 x 2.4 M^3	4 x 2.4 M^3
Water tank	L	250	500	500
Dimensions (W x H x L)	M	2.3 x 2.61 x 8.7	2.4 x 2.61 x 8.9	2.58 x 2.61 x 9.1
Weight	kg	6000	9500	10500
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 Hopper
Integrated twin hopper for two types of aggregate. Each hopper holds 2 x 2.4 m^3. It is made in an all-welded steel plate with reinforced corners and two separate feed belts for the dosing of aggregates.



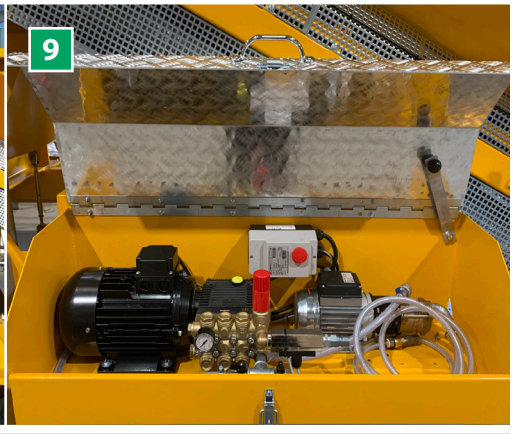
4 Mixing arms and side scrapers
Adjustable mixing arms and side scrapers in steel and hard PVC. Equipped with safety bolts to prevent large stones form seriously damaging the mixing arms.

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

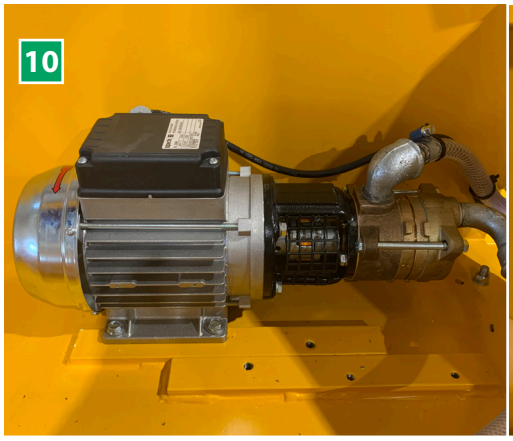
6 Control System
Possibility of manual, semi-automatic and automatic operation and PC interface. No previous knowledge is required and can be delivered with the language version desired. Stores 50 recipes. Dosing accuracy: +/- 0,5-2 %.

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

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

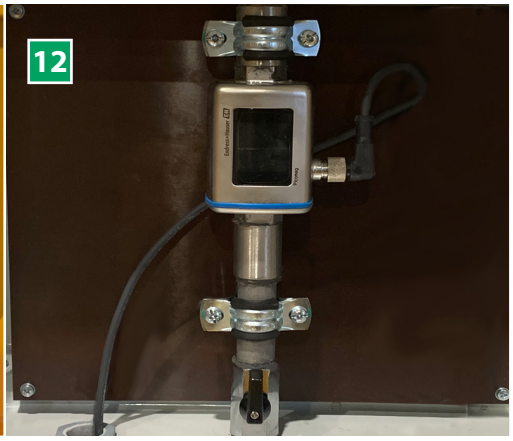


9 Equipment
The standard F-model is delivered with a high pressure cleaner while the additive pumps are optional.



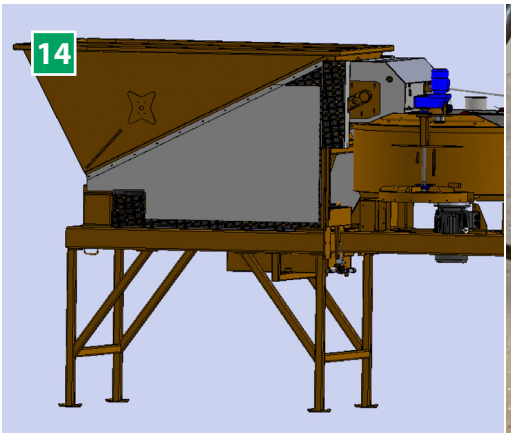
10 Additive pump (optional)
High quality dosing pump 0,25 kW for additive liquid, with 3/8" suction hose, check valve, and stainless steel strainer. Possibility for installation of 1 - 4 additive pumps.

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



12 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.

13 Preweighing of cement (optional)
Cement silo combined with cement auger. The equipment is suspended in weighing cells. The cement silo is supplied with a vibrator on the silo box and filter bag to reduce dust emissions when refilling. With the pre-weighing of cement, the dosage tolerance is +/- 1 % for the plant.

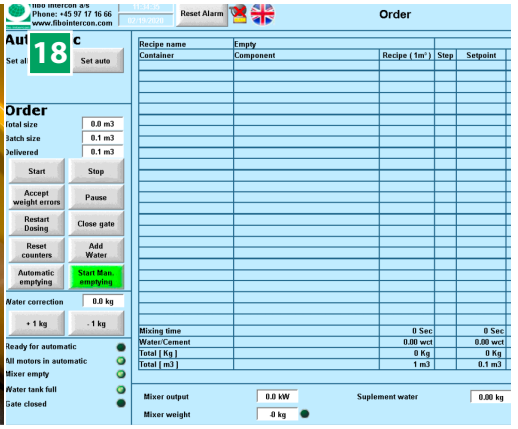


14 High extended legs (optional)
Set of high extended legs with a length of 1200 mm. Very useful for the requirement of a concrete pump.

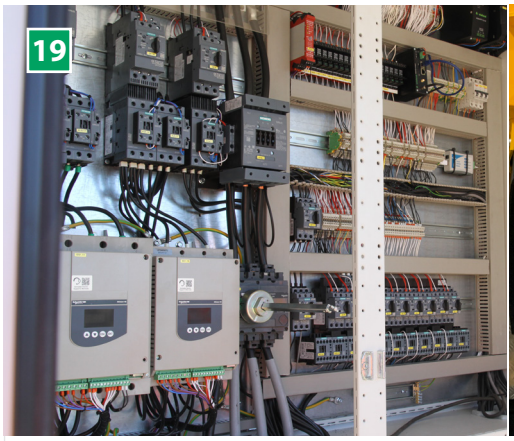
15 Water heating (optional)
Electric heating in the water tank for frost protection. Complete with thermostat and switch in control cabinet for automatic operation and frost protection. Power 4 kW. Voltage 3 x 400 volts, 50 Hz or 7.5 kW.

16 Enlarged silo sides (optional)
Get a capacity of 60 % more. The enlarge silo sides for hopper gives 1.5 m^3 more in each hopper, so the total volume in each hopper is 3.9 m^3. With this enlarge hopper sides, there is enough sand/stone for ¾ hour.

17 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.



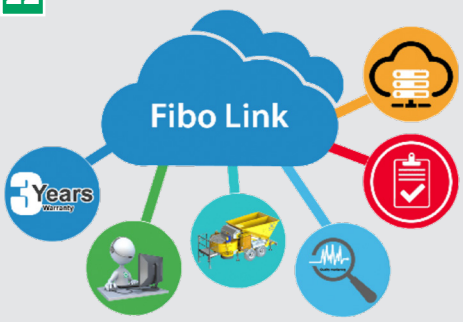
18 Wattmeter (optional)
KW measurement on the mixer motor to measure the load of the motor, to decide the viscosity of the concrete. The viscosity gives control over the water/chemical ratio in the concrete so that an equal target/flow number is achieved for the concrete.



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

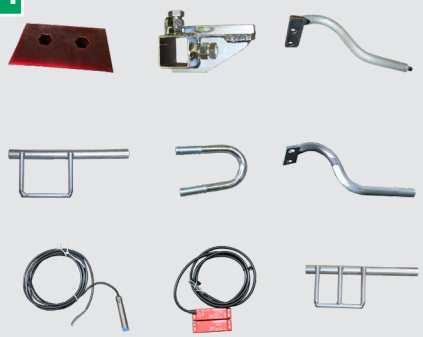
20 **Second outlet on the mixer** (optional)
PLC controlled automatic and electro-mechanical radial mixer opening with a position switch, including an additional seal at the opening for waste concrete, or an additional automatic emptying outlet for cleaning the batching plant.

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



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



24 **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+

25 **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).

26 **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.

27 **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.

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28 **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.

29 **Horizontal cement silos**
Horizontal cement silos with capacities between 18- 38 m^3. The horizontal cement silos can be delivered with a number of options. The choice of options will depend on the purpose of the silo.

30 **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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31 **Generator**
High quality diesel generator for off-grid power supply. 30 - 200 KVA. Possibility of adding emissions filter.

32 **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.

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

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

36 **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.

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 as well as with 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.

Boguchansky, Russia

F2200 with belt conveyor and two vertical silos.

The batching plant were used to construct the bridge across the river Angara which was a big architectural construction piece, especially for such a remote area.

The bridge length is 1608 meters, and the contractor selected a Fibo Intercon batching plan to get a steady supply of concrete on demand.

Representative:

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