fibo intercon

Mobile concrete batching plants
M1800 and M2200

Your partner in concrete solutions

fibo intercon

A compact solution providing reliability and great economy

An investment with great flexibility and capacity

These compact batching plants combine high capacity, quality, mobility, and cost-efficiency. The standard capacity of the M1800 is 20-30 m^3/hour and 25-45 $m3^3$/hour for the M2200. For the production of stiff-mix concrete, even higher capacity is possible.

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.

The batching plant is a highly flexible solution. It is easy to erect. All you have to do is connect electricity, water, and any other equipment and fill sand and gravel in the hoppers. It is also easy to move the plant between building projects, as it can be pulled by a tractor or a similar pulling device at a maximum speed of 30 km/hour. It is equipped with hooks, which makes it easy to transport on a lorry with a mega-trailer or a low-loader trailer.

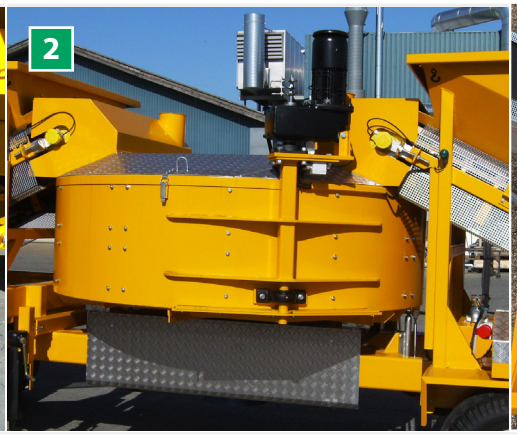
M1800 and M2200 are profitable investments that will soon pay for themselves and return a profit. All wearing parts are produced in robust materials and can be replaced separately, which minimizes operating costs. There is free access to all of the plant functions, facilitating daily cleaning, maintenance, and service.

Technical specifications of M-models

We offer two mobile concrete batching plants on a joint triple-axle bogie:

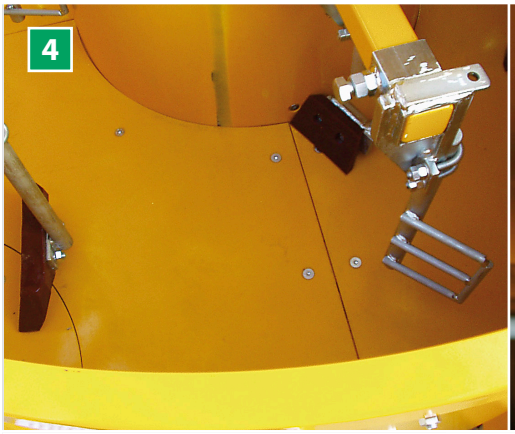
Model		**M1800**	**M2200**
Volume (gross/net)	L	1800/1100	2200/1400
Capacity	M^3/hour	20-30	25-45
Motor	kW	30	55
Mixing arms/side scrapers	pcs	6 / 1	8 / 1
Load cells	kg	3 x 5000	3 x 5000
Weighing accuracy	%	+/- 0.5	+/- 0,5
Dosing accurracy	%	+/- 3	+/- 3
Recipes	pcs	50	50
Aggregate hoppers	pcs	4 x 2.4 M^3	4 x 2.4 M^3
Water tank	L	500	500
Dimensions (W x H x L)	M	2.50 x 2.65 x 8.8	2.58 x 2.65 x 9.0
Weight	kg	10,400	11,000
Power	Volts	3 x 400	3 x 400
	A/KVA	80A 55KVA	125A 86KVA
Generator	KVA	100 KVA	150 KVA

1 Bogie trailer
Joint triple-axle bogie in a welded steel frame with a turnable front axle. The draw hook can be dismounted and thus helps to prevent theft. The trailer also has a parking brake.

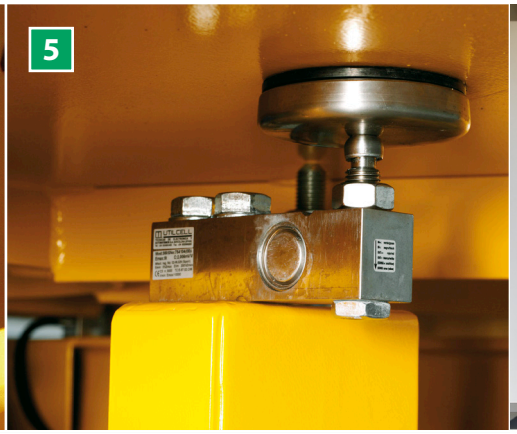


2 Pan mixer
Pan mixer in steel with an internal lining of replaceable, sectioned wearing plates and Hardox steel-plate bottom and enclosure. It is equipped with a gear motor for optimized effect, automatic radial opening, inlet for cement auger, and inspection hatches.

3 Hoppers
Two integrated twin hoppers for 2 x 2 types of aggregate. Each hopper holds 2 x 2.14 m^3. Made in all-welded steel plate with reinforced corners. 2 x 2 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.

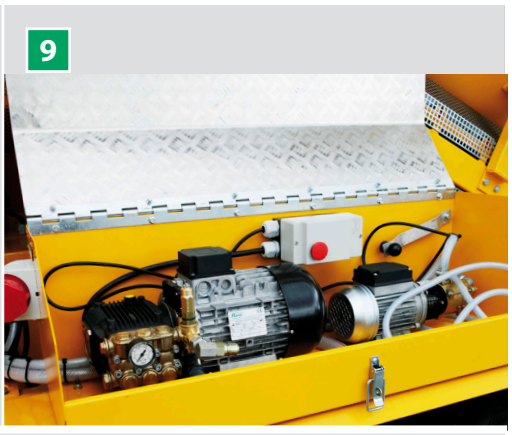


5 Load cells
The pan mixer is placed on three 11.025 pound electronic load cells with an accuracy of +/- 0.5%.

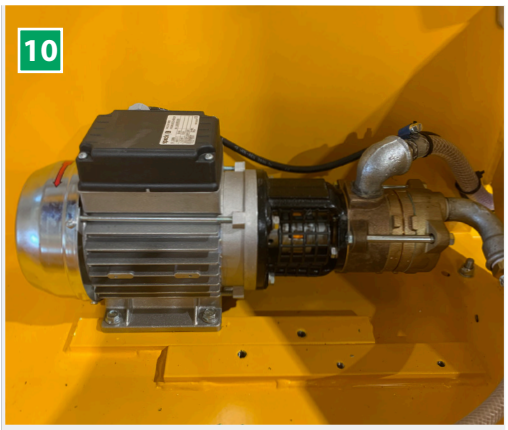
6 Control system
Possibility of manual, semi-automatic, and automatic operation and PC interface. No previous knowledge required and can be delivered with the language version desired. Stores 50 recipes. Dosing accuracy: +/- 0.5 - 2%.

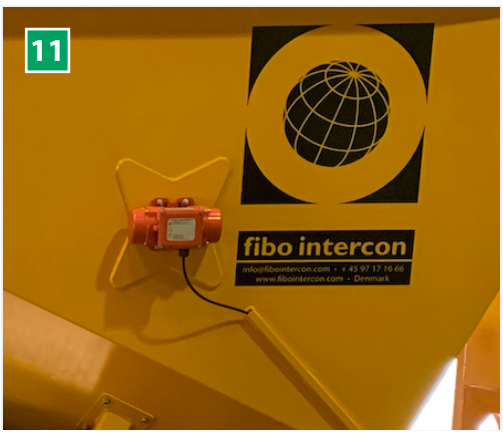
7 Discharge
Possibility of manual, semi-automatic, and automatic discharge. Complete with overload protection and position sensor.

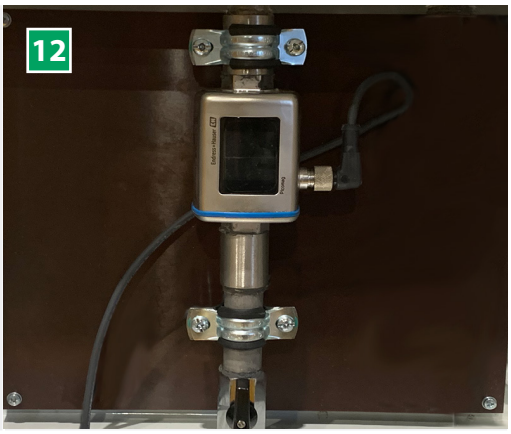
8 Flowmeter
Parallel dosing of water and aggregates for reduced cycle time and pan mixer wear and reduced energy consumption.



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



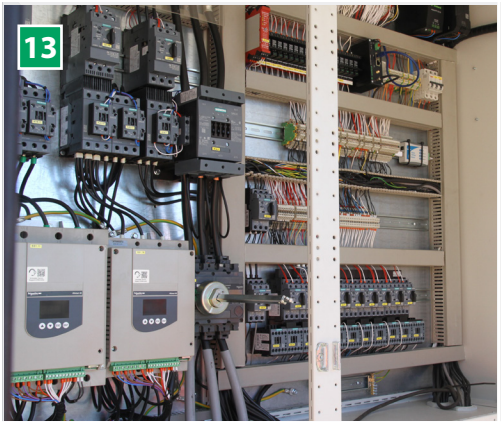


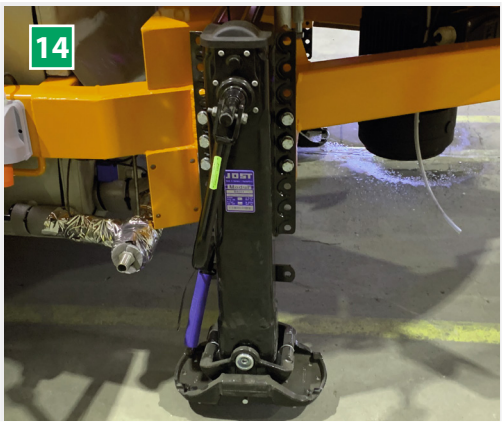


10 **Additive pump** (option)
High-quality dosing pump 0,25 kW for additive liquid, with 3/8" suction hose, check valve, and stainless steel strainer. Possibility for installation of 1 - 4 additive pumps.

11 **Vibrators** (option)
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** (option)
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.

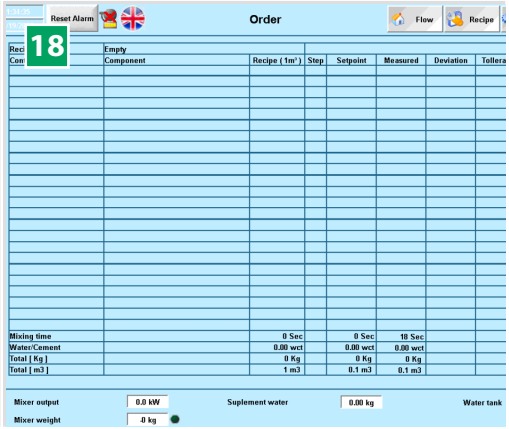




13 **Frequent converter** (option)
Frequent converter on mixer moter to achieve the perfect speed in the mixing sequence. The frequent converter can reduce the generator size by 25 %.

14 **High extended support legs** (option)
Set of high extended legs with a length of 0-5200 mm. Very useful for different placement sites and needed with the requirement of a concrete pump.

15 **Water heating** (option)
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** (option)
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.

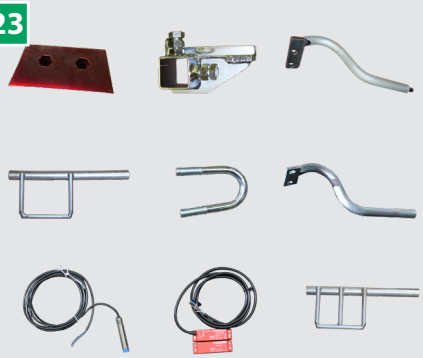
17 **Isolation** (option)
Liquid supply lines are provided with a trace heating tape and additionally insulated. The chemistry and high-pressure cleaner box are provided with a radiant heater.

18 **Wattmeter** (option)
KW measurement on the mixer motor to measure the load of the mixer 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 **Second outlet on mixer** (option)
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** (option)
Removable cover made in heavy duty PVC, to protect material hopper from the elements and for easy cleaning of the material bunker.

21 **Fibo Link cloud system** (option)
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.



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

23 **Spare parts** (option)
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** (option)
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).

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 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.

29 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.

30 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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31 Test laboratory
The fibo intercons 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.**

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

33 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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34 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.

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

36 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' 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, therefore, 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.

Tressere, France

M2200 with belt conveyor. The batching plant was used for the construction of tunnels for the new railway connection between Perpignan and the Spanish town Figueras.

Siberia, Russia

M2200 with belt conveyor and vertical cement silo. The batching plant mixes concrete for the oil and gas industry in Siberia.

Representative:

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