fibo intercon

Concrete batching plant for extreme winter conditions

Your partner in concrete solutions

fibo intercon

For production of concrete in areas with a rough climate and difficult infrastructure conditions

Flexible and robust solution

This semi-mobile winter plant mixes concrete at temperatures as low as minus 40 °C without compromising on quality and performance. The plant doses more than 100 kg/sec. and produces 1100-1200 litres of concrete per batch. This makes it one of the most efficient plants on the market.

The plant is insulated with plates with 100 mm PU insulation and is connected to an external steam generator. The steam generator heats up the pan mixer and the aggregates in the hoppers to 70 degrees and keeps a constant temperature in the cabin. An integrated service corridor along the plant coupled with the possibility of supervising all processes from inside means that the staff only rarely has to go outside.

The winter plant is built on a robust steel frame, which allows it to be transported frequently even over large distances and on poor roads. The winter plant is also designed for areas with limited access to raw materials and is therefore able to use clean water from for instance freshwater lakes.

The standard winter plant is delivered with a 1800 litre pan mixer, a 1500 litre water tank, two additive pumps, an air compressor, a high-pressure cleaner and a pipe system for steam. It is also prepared for connection to a power generator, additional hoppers for aggregates, cement silos etc.

Our winter 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 with the use of ordinary tools like screwdrivers and adjustable spanners. This minimises operating costs. There is free access to all of the plant functions, facilitating daily cleaning, maintenance and service.

Equipment

The winter plant can be combined with a 14 M belt conveyor covered with module-built 60 MM PU insulating plates. A calorifier blows heated air along the belt conveyor to prevent the concrete from hardening.

The winter plant can also be combined with our vertical cement silos, which are fully equipped with cement auger, top hatch and railing (this equipment is described in separate data sheets).

Overview of the technical properties of the winter batching plant:

Model		Winter plant
Volume (gross/net)	L	1800/11-1200
Capacity	M^3/hour	20-30
Motor	kW	30
Mixing arms/side scrapers	pcs	6 / 1
Aggregate hoppers	pcs	2 - 4 - (2 x 8 M^3 or 4 x 4 M^3)
Water tank	L	1500
Dimensions (W x H x L)	M	2.44 x 2.8 x 12.2 (without insulation)
Weight:	kg	20,000 (with insulation)

1 Steel frame
The plant is installed on a joint 40 foot container frame in welded steel. It has three doors facing the terrain and a door between the control room and the service corridor.

2 Hatch covers
The two insulated hatch covers in the roof are opened to add aggregates. They are controlled by an electric hoist mechanism placed on the outside of the plant.

3 Hoppers
Two integrated hoppers for 2-4 types of aggregate. Each hopper compartment holds 4 or 8 M^3. Made in all-welded steel plate with reinforced corners. Equipped with separate feed belts, vibrators and nozzles for steam and air. Large grids in the hopper top prevent large stones or fragments from entering the hopper compartments.

4 Discharge
The winter plant is equipped with an opening for the insulated belt conveyor. The strong insulation protects the pan mixer and the belt conveyor from low temperatures.

5 Operating system with thermal printer
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 60 recipes. Dosing accuracy: +/- 0,5-2%.

6 Pan mixer
Made in steel with an internal lining of replaceable wearing plates and a Hardox steel-plate bottom. Equipped with a gear motor for optimised effect, automatic radial opening, inlet for cement auger and inspection hatches.

7 Load cells
The pan mixer is placed on three 5000 kg electronic load cells with an accuracy of +/- 0.5%.

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

Present all over the world

Over the years we have been developing and delivering quality solutions to customers all over the world. The products delivered have ranged from standard batching plants to unique customised 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.

Siberia, Russia

Winter plant with insulated belt conveyor, vertical cement silo and cement auger. The plant is used for the production of concrete for the oil and gas industry.

Siberia, Russia

Winter plant with insulated belt conveyor, vertical cement silo and cement auger. The plant produces concrete for the construction of bridges and roads.

Flexibility and productivity

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

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