CONCRETE

FOR FARMERS

- Make your own concrete
- Make your own farm buildings
- Diversify
- Sell concrete to other farmers
- Sell concrete products to other farmers
- Easy to use batching plant

Farmer Concrete

Make Your Own Concrete

Batching concrete on your farm has many advantages:

- Concrete on demand
- No waiting time
- Save time
- Make money

Fibo Intercon batching plant is weight batched to +- 1% dosing accuracy using pre-weight cement.

With Fibo LINK our innovative software, you can produce certified concrete with delivery and conformity notes for each batch. Concrete can be produced on-site easily and with no hassle.

PHOTO KEY

1. Dairy construction Russia
2. Silage bays
3. C1800 batching Plant
4. Farm Buildings

Contents

OUR GOAL IS TO HELP YOUR BUSINESS MAKE MONEY PRODUCING HIGH QUALITY CONCRETE

Our mission is to help you make money by solving business problems, such as:

- Maximising profit
- Concrete production in remote locations
- Saving money by optimising your concrete production
- Building capacity

Some methods of solving these problems:

- Remote concrete batching plant
- Concrete production directly on site
- Concrete production using recycled materials

Go to www.fibointercon.com and select a plant for your project

MOBILE CONCRETE PRODUCTION

FLEXIBILITY

Traditional concrete production methods are expensive and inconvenient for remote construction sites.

When buying a mobile concrete plant, you not only have the opportunity to produce concrete on site, but also save costs by reducing transport.

The cost of acquiring your plant will be paid off within six to twelve months.

At the end of the project, you can also sell the plant or rent it out.

YOUR FIBO BATCHING PLANT WILL MAKE YOU MONEY

QUALITY

A Fibo Intercon Mobile concrete plant doses with a standard setup to an accuracy of +- 3%, and with pre-weight cement an accuracy of +- 1%.

All concrete production is monitored by our in-house software. The computer is set up using tolerances for every part of the dosing process.

An alarm goes off if any tolerance goes over the settings.

Computer monitoring means that you can produce high-quality concrete in accordance with BS 8500 EN 206.

The software system can hold up to 50 concrete recipes. Each recipe can be changed with the press of a button and even remotely, using your mobile, tablet or PC.

YOUR CONCRETE WILL ALWAYS MEET DESIGN SPECIFICATIONS

MINIMUM WASTE

Concrete waste is one of today's fundamental problems.

Concrete waste on-site can be 10/15%.

With Fibo concrete production, you can produce the exact amount of concrete that is needed, thus minimizing waste.

YOUR CONCRETE WILL ALWAYS BE FRESH

ECONOMY

Concrete production at the construction site is very economical because you only pay for what you use.

You can order materials for concrete production and store them on site.

In Europe, the difference in price between concrete produced at the construction site and that produced in a factory is €10-30 per cubic metre.

FOR EVERY PRODUCTION OF 100 CUBIC METRES OF CONCRETE, YOU SAVE OR EARN €1000 to €3000

PEACE OF MIND

Our concrete technicians can support you with your concrete mix design and concrete testing.

We can also help you with your concrete quality processes and systems to ensure you are delivering concrete to the customer's specifications.

WE HAVE OUR OWN CONCRETE TESTING LABORATORY

PRINCIPLES OF OPERATION

The concrete plant is easily transported and quickly set up for production.

Concrete production is carried out in a factory or on the construction site. After connecting the cement silo, power and water supply, the plant is ready for production.

The computer software controls the batching and mixing process.

The plant includes a pan mixer and, depending on the model, 2 or 4 material bins. The material bins store sand and stone.

The plant also includes weight sensors, chemical pumps and a water jet for cleaning down after batching.

In addition, you can purchase extra chemical pumps for chemical additives, a water heating system, hopper vibrators, extended hopper plates and remote control.

TWO OR FOUR BIN OPTIONS

EASY TO USE

THE HOPPER CAN BE FILLED WITH A SMALL LOADER. NO INFRASTRUCTURE REQUIRED

OPTIMISED PRODUCTION

1) 3 Year extended warranty available
2) Remote information control from your mobile
3) Stock and quality control made easy

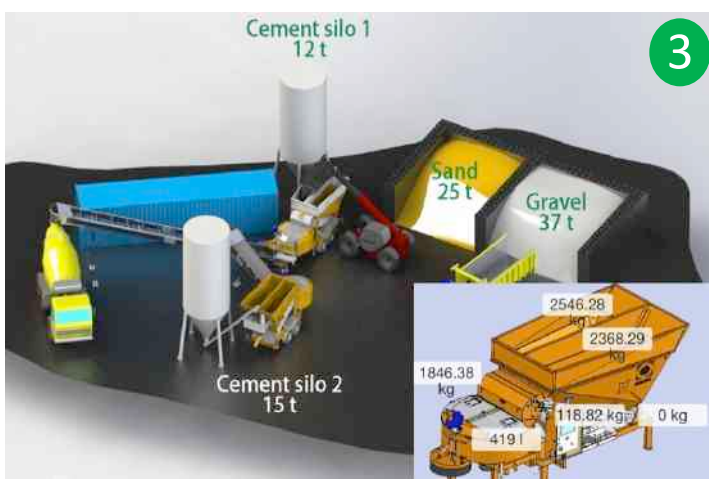
STATE OF THE ART SOFTWARE

We have developed new software that allows you to optimise your concrete production, saving time and money by producing high quality concrete.

Our engineers can log in remotely to help you optimise production.

The software allows you to set quality tolerances and gives you warnings if any materials are batched out of tolerance.

We have a concrete to collect option to make selling concrete simple and effective.



RELIABLE COMPONENTS

PHOTO KEY

1) Good concrete quality is ensured by optimally positioned blades in the mixer

2) Precision dosing with three mixer weight sensors.

3) Water is dispensed into the mixer using a meter.

Your concrete batching plant can have up to three chemical pumps which are controlled by computer software.

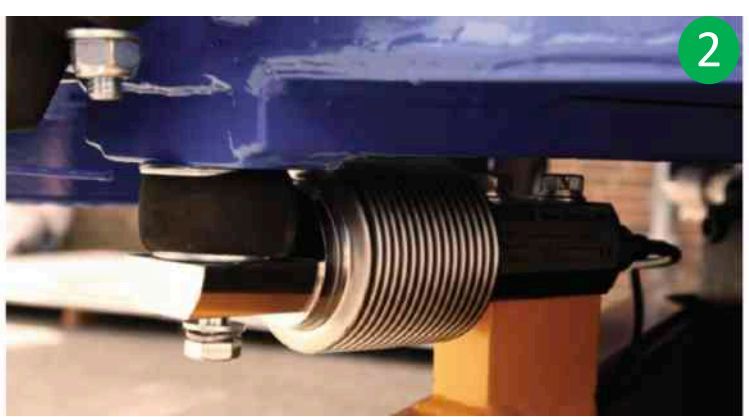
The chemicals are dispensed in accordance with the mix design.

All equipment is manufactured to a high standard, wear-resistant and durable. The mixer plates are made from Hardox 450.

Fibo concrete batching plants have a fifteen-year design life. We have plants that are over twenty years old and are still in full production.

The plant is robust and is a simple design delivering low repair and maintenance costs.

All its surfaces are easily washed with a high-pressure washer, and all parts are easily accessible for cleaning.



MODELS

B1200
B1800
B2200

The B Range of batching plant is a mobile type.

Productivity: 10 to 45 m3 / hour.
Dosing accuracy +-1-3% and +-1% with pre-weight cement

This concrete plant is mounted on a metal frame with an axle and wheels.

It has a concrete mixer, two separate built-in inert hoppers, two independent conveyors, a water tank, weight sensors, equipment for dosing and a computer to control the operation.

It is supplied with a high-pressure washer, and the hoppers can be raised to increase capacity.

The plant can be transported on a flat deck wagon trailer, or towed on public roads up to 30 km/h.

B1200 B1800 B2200

TECHNICAL SPECIFICATIONS

		B1200	B1800	B2200
Productivity	M^3/hour	10/16	20/30	25/45
Volume (gross)	L	1200	1800	2200
Volume mixed material	L	800	1100	1400
Motor	kW	15	30	55
Mixing arms/side scrapers	pcs	5/1	5/1	5/1
Aggregate hoppers	pcs	2 x 2.4m^3	2 x 2.4m^3	2 x 2.4m^3
Water tank	L	250	500	500
Dimensions W x H x L	M	2.37, 2.57, 5.7	2.5, 2.57, 6.3	2.5, 2.57, 6.5
Weight	kg	3900	6500	8000
Supply voltage	V/A	400/32	400/80	400/125

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Batching Plant Production Tables

The table on the next page show the outputs for Fibo batching plant. There are two tables.

Table 1 – Wet batched concrete using an M25/C20 concrete mix as an example.

Table 2 – Dry batched concrete using an M25/C20 concrete mix as an example.

Dry-mix is used to batch drum mixers, and the mixing process happens in the drum wagon on the way to the site.

The different sizes of the batching plants are 2200 litres gross 1400 litres net, 1800 litres gross 1000 litres net and 1200 litres gross 800 litres net.

For example, the 2200 model produces 1.4 m^3 of concrete per mixing cycle. Therefore, if the output were 40 m^3 per hour, the number of cycles would be 60 minutes/(40 m^3/1.4) = 2.1 minutes per cycle.

Definitions

Pre-mix – when the sand and stone is pre-mixed before batching. The Fibo batching plant can pre-mix the sand and stone and this can then be stored for use.

The advantage of using a pre-mix is that all the bins can be dosed at the same time, making it faster to dose into the mixing pan.

Pre-weight cement – when the cement is weighed before dosing. Cement pre-weigh uses the integrated main cement silo with weight cells on the feet, or a pre-weigh dosing cell can be attached to the plant on separate weigh cells as well.

The advantage of using pre-weight cement is that the cement can be batched at the same time as the sand. The computer already knows the weight of the cement and makes the allowance. Using pre-weight cement makes the batching process faster by 4/5 m^3 per hour and improves the batching accuracy from +-3% to +-1%.

Dosing Station – a dry batch plant with no mixing pan. The plant doses onto a conveyor and then into a drum wagon for mixing. The advantages are less cleaning, and the plant is more price competitive.

Batching Plant Production Tables

HOW TO READ THE TABLES

1) Select the table you are interested in: **wet mix or dry mix**.
2) Select pre-mix or batching the sand and stone separately.
3) Select pre-weight cement or no pre-weight cement.
4) Read off the output in m^3 per hour for the size of plant you are interested in.

Table 1 – Wet Batch Mix

Id	Wet Concrete M25/C20	Pre-Weight Cement	2200 m^3/hr	1800 m^3/hr	1200 m^3/hr	Dosing Station m^3/hr
1	Premixed sand and aggregate dosed with all motors	Yes	41.8	31.5	23.8	N/A
2	Premixed sand and aggregate dosed with all motors	No	34.0	26.8	19.6	N/A
3	1 sand and 1 aggregate dosed separately using one motor at a time	Yes	37.1	24.5	18.8	N/A
4	1 sand and 1 aggregate dosed separately using one motor at a time	No	30.8	21.3	16.1	N/A

Table 2 Dry Batch Mix

Id	Dry Concrete M25/C20 Dosing Drum Mixer Trucks	Pre-Weight Cement	2200 m^3/hr	1800 m^3/hr	1200 m^3/hr	Dosing Station m^3/hr
5	Premixed sand and aggregate dosed with all motors	Yes	76.8	56.1	43.5	83.5
6	Premixed sand and aggregate dosed with all motors	No	54	42.6	31.3	64.4
7	1 sand and 1 aggregate dosed separately using one motor at a time	Yes	62.2	37.1	29.4	60.8
8	1 sand and 1 aggregate dosed separately using one motor at a time	No	46.3	30.3	23.3	50

OPTIONAL EQUIPMENT

ALUMINIUM CONCRETE CONVEYOR

The Fibo aluminium belt conveyor is supplied in widths of 0.8 m and 1 m – and lengths of 8 – 14 m.

Our aluminium belt conveyor is especially suited to carry gravel, sand, lightweight aggregate and concrete mixes.

The conveyor is built on two strong aluminium profiles and all other parts are galvanized.

A plough scraper is fitted onto the conveyor belts, which ensures that the internal sides of the belts are kept clean.

A band scraper, that scrapes material off the top side of the belts at the discharge point, is also fitted onto the belts.

All belt conveyors are delivered complete with drum motor with integrated gearbox, inlet and outlet funnel.

The belt conveyors are also delivered with lifting eyes for easy transportation.

CONVEYORS CAN BE SUPPLIED WITH WHEELS AND ARE FULLY ADJUSTABLE

Standard Sizes:

0.8 x 8 M
0.8 x 10 M
0.8 x 12 M
0.8 x 14 M

1.0 x 8 M
1.0 x 10 M
1.0 x 12 M
1.0 x 14 M

1.2 x 8 M
1.2 x 10 M
1.2 x 12 M
1.2 x 14 M

VERTICAL CEMENT SILO

Fibo cement silos are fully welded constructions and can be filled by big bags or a cement tanker.

Designed for filling with big bags of easy-flowing material with a density up to 1.6 T/M^3 e.g. Portland cement with a bulk density of 1.13 T/M^3.

Capacity from 3 to 40 m^3

BIG BAG CEMENT SILO

3 ton vertical big bag cement silo with height-adjustable support legs.

Designed for easy-flowing materials such as Portland cement or lime with a bulk density of 1.13 tonnes/M^3.

The big bag silo comes with a platform to conform with EU health and safety regulations as standard.

Delivered complete with cement auger, counterweight for cement auger, cone with outlet flange, top hatch, grid for cement inlet, control unit, vibrator, lifting devices and lifting device for transportation with a forklift truck.

The big bag silo is ideal for small concrete batching set ups. For mobile batching plant, when you want to move it from site to site for a fast set up and go, the big bag silo does the job.

Go to www.fibointercon.com and select a plant for your project

FIBO FINANCE

No Payments for Twelve months

+

Return on investment less than twelve months

=

A positive cashflow

FIBO FINANCE

KEY BENEFITS

Fibo Batching plant has a return on investment between 6 and 12 months.

No payment for 12 months allows the plant to generate the cash to pay for itself.

Finance your project - Buy moulds, cement silos, bucket loaders and concrete batching plant.

Everything you need to set up a new business for pre-cast, on-site and remote site concrete production.

Fibo Finance is a great way to grow and build your business.

Great for:

- Sweating the machine to earn money to pay for itself.
- No need to borrow or use your own capital.
- Having a positive cashflow and owning your new plant.
- Great to finance all your construction plant for a project.

"IT'S THE WORLD'S BEST KEPT SECRET AND GREAT FOR YOUR BUSINESS"

fibo intercon

CONCRETE SOLUTIONS

Concrete Solution

Onsite Concrete Batching

Batching concrete on-site has many advantages:

- Concrete on demand
- No waiting time
- No late concrete due to traffic or the plant being busy
- No part load charges
- Save 25% of a Ready-mix budget

Fibo Intercon batching plant is weight batched to +- 1% dosing accuracy using pre-weight cement.

With Fibo LINK our innovative software, you can produce certified concrete with delivery and conformity notes for each batch. Concrete can be produced on-site to BS 8500 - EN 206 easily with no hassle.

PHOTO KEY

1. Onsite Concrete Production
2. Continuous slip form concrete
3. Concrete frame construction
4. Housing site concrete

Concrete Solution

Wind Farm Foundation Construction

The location of wind farms is generally remote with no concrete batching plant in the area.

Fibo Intercon mobile batching plant is an ideal solution. Whether the quantity is 300 m3 or 600 m3 of concrete required per pour.

Fibo has a batching plant to deliver the concrete on demand.

The Fibo solution can be far more economical than traditional batching plants.

The concrete is high quality with weight batching, and with Fibo LINK every batch is stored in the cloud. The data can then be printed out as delivery and conformity documents for every batch.

PHOTO KEY

1. Wind Farm
2. Laying the blinding concrete
3. Foundation steel reinforcement
4. Concrete pour

Concrete Solution

NEW HOUSING PROJECTS

We sell a lot of Fibo batching plant for remote housing projects in Africa. The plants are used to manufacture concrete blocks and to make concrete for foundations.

House block manufacturing makes between 15,000 to 25,000 blocks per day.

Blocks can be made using a mix of recycled materials supporting the circular economy. We can design and build the whole solution.

Concrete Solution

SEA DEFENCE PROJECTS

With the climate changing and the seas rising, there is a requirement for robust sea defence projects.

Our engineers can design and build Tetrapod production close to the sea defence project to maximize economies.

We can supply 1.5, 3, 7.5, 10, 15, 20, 25-ton Tetrapod molds anywhere in the world, together with a fully operational batching plant.

PHOTO KEY

1. Tetrapod sea defence groin
2. Tetrapod being fabricated
3. Tetrapod casting production
4. Completed blocks

Concrete Solution

CONCRETE INTERLOCKING BLOCKS

There are many ways that concrete interlocking blocks can be used in large numbers.

PHOTO KEY

1. Moulds being prepared for concrete pour
2. Blocks being used to build structures
3. Reinforced concrete block retaining walls
4. Concrete block material bays
5. Sea defense blocks
6. River erosion blocks

Concrete Solution

Mining and Quarrying

Fibo batching plant is used within the quarry and mining sectors to produce concrete and shotcrete.

PHOTO KEY

1. Concrete Batching Plant
2. Loading the shotcrete pump
3. Tunneling project
4. Rock stabilisation project

CUSTOMER CASE STUDIES

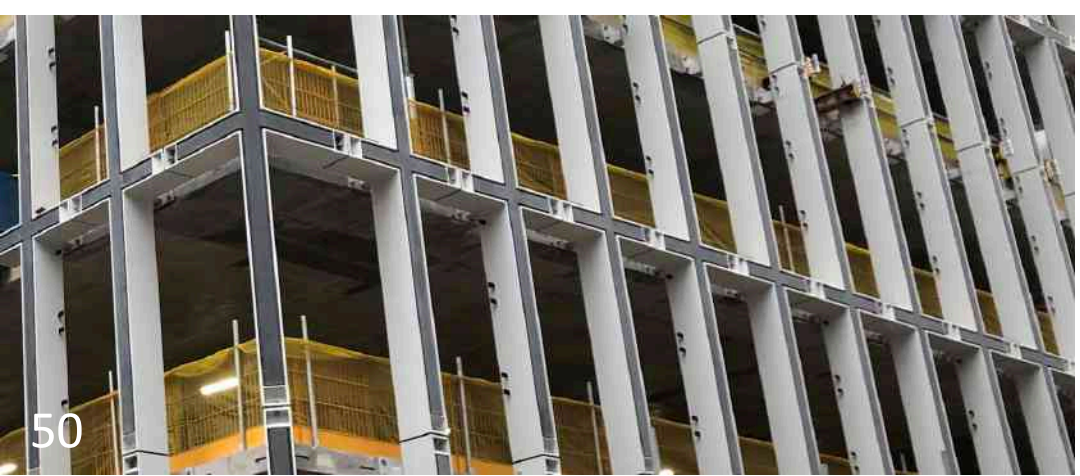
Case Study

Vierendeel Beams and Columns for 22 Hanover Bond, London

Our customer Barret's of Asbury won the project to fabricate the feature Vierendeel frame to the facade of 22 Hanover Bond for their client Clivedale.

Clivedale is an independent super-prime developer based in Mayfair, London with an expanding portfolio of luxury real estate including residential, commercial and hotel projects in some of the Capital's most prestigious addresses.

The Vierendeel columns are manufactured from steel plate and reinforced with rebar, then filled with pigmented concrete to offer a unique architectural look.



The steel columns and beams where being finished with black pigmented concrete that had to be consistent in colour for all the columns and beams; otherwise, they would be rejected by the client costing thousands of pounds.

The project managers of Barret's looked at a number of concrete batching plant companies and options. The final decision was to purchase a **Mini Viking** from Fibo.

The decision was made in favour of Fibo Intercon because we listened and adjusted the batching plant adding fine-tuning controls so that each batch of concrete would be consistent in batching and colour.

The fine-tuning involved adding a frequency controller to the cement auger motor. The speed of the cement auger is reduced by frequency converter and is controlled by the batching plant software during dosing.

You can see the results in the image on the left..

Case Study

Sabetta Airport

Sabetta Airport on Yamal Peninsula was built to fly construction and plant operators into the nearby gas fields.

Passenger numbers are about 150,000 per year. It is forecast to grow with the further development of the Arctic Region. The airport will also be able to receive cargo planes.

The soil-bearing capacity at the airport is very poor for construction. The solution was to mix the existing soil with cement and chemicals and replace it using a compactor.

Two F2200 fibo batching plants were used to build the airport and runways.

Case Study

Angara Bridge Construction

A new bridge was needed over the Angara river for the Boguchany Yurubchen Baikit freeway.

The bridge was a large civil engineering project, especially for such remote location from the main freeways.

A Fibo F2200 concrete batching plant was used to produce all the concrete.

Case Study

Russian Winter Olympics

Remote Site Batching Plant – In the years 2011-2013, in the Adler Area of Sochi Region in Russia, an Olympic park of 200 hectares was built for the 2014 Winter Olympics.

Over 100,000 m^3 of concrete was required to build the Olympic park and sports venues.

The transport infrastructure prepared to support the Olympics included twelve tunnels, forty-six bridges, thirty-one miles of road, 223 miles of railroads and stations in and around Sochi, forty-two hotels, four sports venues and two training areas.

The complexity of the construction was determined by Sochi's location in the mountains where it was virtually impossible to deliver concrete, due to the high rise. A remote site batching plant was required.

The high rise made it impossible to place a modular or stationary concrete plant on the remote mountain areas, due to the compact location, the inaccessibility of preparing the foundation and the difficulties in transporting oversize parts.

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