CONCRETE BATCH PLANT

THE MOBILE CONCRETE STATION

OVER 45 YEARS OF CONCRETE BATCHING TECHNOLOGY FROM FLIEGL

Fliegl
BAU- & KOMMUNALTECHNIK

09/26

RESH CONCRETE ON DEMAND

**For over 45 years, of concrete batching technology by Fliegl.
A success story.**

A Milestone

For 45 years, Fliegl has stood for expertise, innovation, and practical solutions in concrete production. With the Fliegl Concrete batch plant, this know-how is brought to life in a modern concept for flexible and hassle-free access to ready-mix concrete. Fast, on demand, and customer-focused – fresh concrete eve when you need it.

A story of innovation, courage, hard work, and perseverance.

For over half a century, the name Fliegl has stood for quality, reliability, and a pioneering spirit in vehicle manufacturing. What began as a small family business in 1975 has grown into a globally trusted partner for agriculture and transportation logistics.

Martin Fliegl – Sales Director Fliegl Bau- und Kommunaltechnik

Fliegl Bau- und Kommunaltechnik (Fliegl Construction and Municipal Technology) develops and manufactures high-performance vehicle solutions for professional use in construction and municipal applications. Together with Fliegl Agrartechnik (Fliegl Agricultural Technology) and Fliegl Dosiertechnik (Fliegl Dosing Technology), Fliegl Bau- und Kommunaltechnik (Fliegl Construction and Municipal Technology) is based at the company's 30-hectare site in Mühldorf. Around 450 employees work here with state-of-the-art manufacturing technologies to develop innovative and practical solutions. For more than 45 years, we have been producing thermal push-off systems, water tanks, dump trucks, and concrete bathing technology that stand for quality, reliability, and cost-effectiveness worldwide.

Ingeniously simple and extremely efficient

THE FLIEGL CONCRETE BATCH PLANT

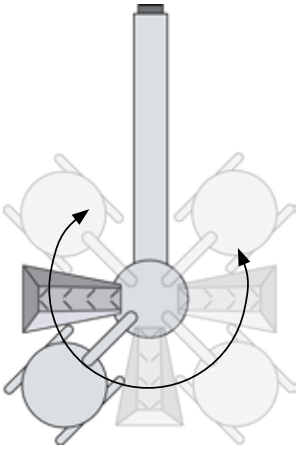
Ready-mixed concrete made easy &flexible, and on demand: The Fliegl Concrete batch plant offers a modern solution for the fast and convenient supply of concrete to small-volume customers. Whether for landscaping, excavation work, fence installation, paving, or DIY projects, customers can easily select the required quantity and type of concrete and then operate the system themselves.

The Concrete batch plant makes purchasing fresh concrete simple and hassle-free. Even smaller quantities can be picked up flexibly and without long waiting times – exactly when needed. This provides an additional service for customers while offering an attractive addition for concrete plants and building material suppliers.

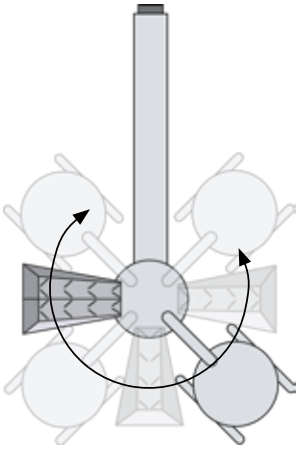
Flexible, customer-focused, and cost-effective: The Fliegl Concrete batch plant creates new opportunities for supplying small-volume customers and makes ready-mix concrete readily available whenever needed.

MODULAR DESIGN

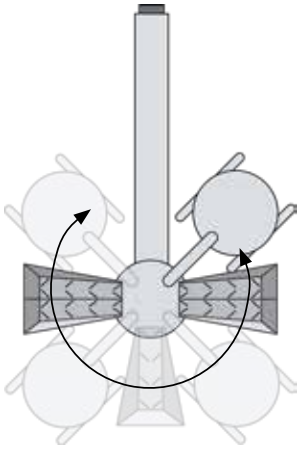
There are many installation options, tailored individually to any site conditions and available space.



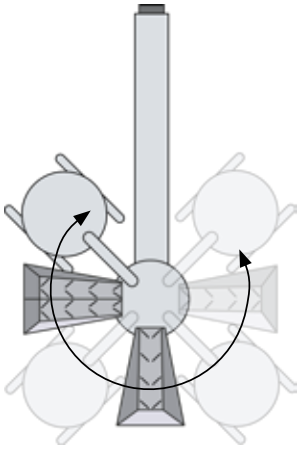
1x Single-Hopper



1x Double-Hopper



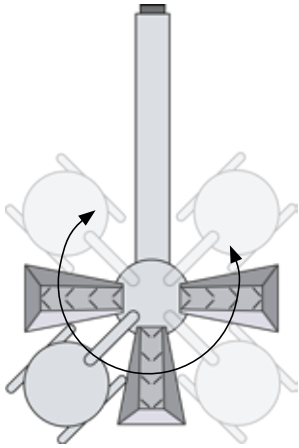
2x Twin-Hopper



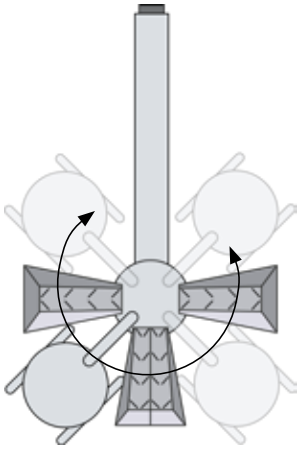
1x Single-Hopper + 1x Twin-Hopper

Single-Hopper

Twin-Hopper



2x Single-Hopper + 1x Twin-Hopper



3x Single-Hopper

Benefits of a Single-Hopper Unit

- Approx. 4 m³ to 5.5 m³ of sand/gravel storage capacity per single-hopper unit
- Reduces the time required for refilling
- No risk of unintentionally mixing components when filling the storage units
- Very low loading height of 2.60 meters
- Extra-wide filling opening for large wheel loader buckets

Benefits of a Double-Hopper Unti

- Approx. 2.5 m³ to 3.5 m³ of sand/gravel storage capacity per twin-hopper unit
- Ideal for materials required in small quantities

REA
TO GO

- **Mixing Capacity:** Approx. 10 m³/h or 20 m³/h
- **Space Requirement:** From 80 m² without passive storage
- **Mixing Time:** Approx. 2–3 min/batch
- **Concrete Types:** Different recipes of up to four main aggregates, up to two silos/cement types, and up to two admixtures (retarder & plasticizer)
- **High Number of Mixing Tools:** Unmatched mixing performance in the shortest mixing time
- **Mixing Tools:** Made of wear-resistant polyurethane
- **Extra-Large Cleaning Opening**
- **Large-Area Lining Made of Highly Wear-Resistant Steel:** Bolted and easy to replace
- **Minimal Noise Development:** By high-quality PU mixing tools
- **Highest Safety Standards**

Automatic cleaning of the concrete dispensing station: clean. fast. without water.

The automatic dry-cleaning system makes the cleaning the CDS easy and efficient. Gravel binds and removes concrete residue without adding water. Cleaning time, material, and quantity can be individually adjusted. The cleaning material is then discharged via the conveyor belt and can be fully reused – for fast cleaning, less effort, and a sustainable material cycle.

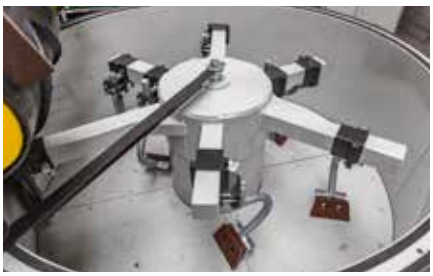
DY-MIXED CONCRETE

Position the appropriate transport vehicle under the conveyor belt.

The selected concrete mix is fully mixed automatically in the plant's mixing module...

...and then conveyed to the transport container or vehicle via the conveyor belt.

Thanks to the retarder, the customer has enough time for transport and placement.



Technical Data	BTS 500	BTS 1000
Pan Mixer with 9 Mixing Paddles in m³	0.5	1.0
Mixing Capacity in m³/h	10	20
Powerful Drive Motor for High Mixing Capacity	15 kW	45 kW
Power Consumption	45 - 60 A	125 A
Capacity with Twin Hopper in m³	2 x 2.5	2 x 2.5
Capacity with Twin Hopper + Extension Plate in m³	2 x 3 - 3.5	2 x 3 - 3.5
Capacity with Single Hopper in m³	4	4
Capacity with Single Hopper + Extension Plate in m³	5.5	5.5

Self-Service Concept

Small-volume customers can quickly and easily purchase concrete for non-reinforced structures through the self-service system. This is especially convenient for landscapers, fence installers, pavers, excavation contractors, and DIYers, who can conveniently pick up ready-mixed concrete directly when collecting manhole rings, curbs, or paving stones.

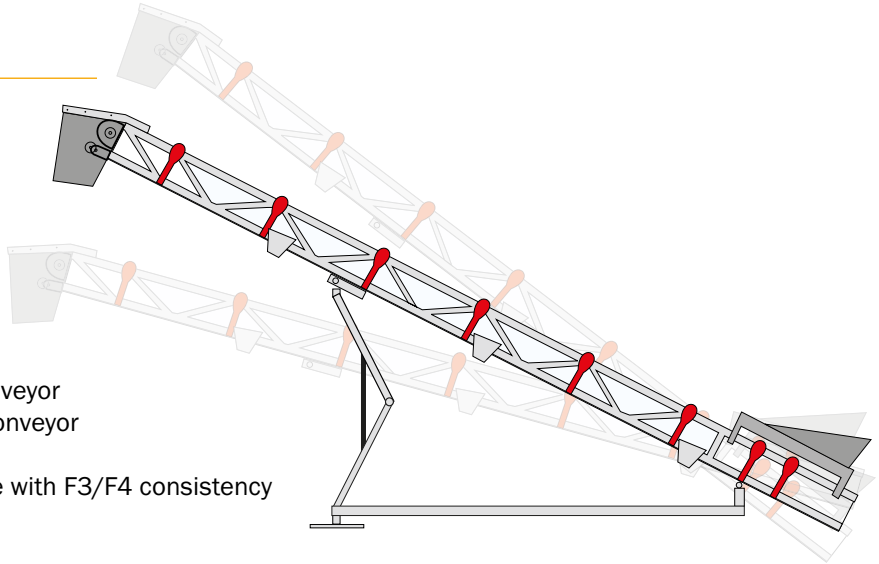
The benefits are clear: Operators can expand their service offering, while customers can conveniently purchase small quantities from 0.15 to 3.0 m^3 with maximum flexibility. Convemient business hours complete the concept.

The customer selects the quantity and concrete type at the sales counter and receives a chip card or QR code. They then position their vehicle and operate the Concrete Batch Plant themselves.

Mobility was a key focus during development, helping to minimize regulatory approved processes. The fully assembled plant requires only around 80 m^2 of space.

Equipment	BTS 500	BTS 1000
Fully Automatic Control	Standaard	Standaard
Frequency Converter	Optional	Standaard
27.6 m^3 Cement Silo for 30–35 t	Optional	Optional
XL Cement Silo 32.6 m^3 for 35–38 t	Optional	Optional
7,000 mm Belt Conveyor	Optional	Optional
10,000 mm Belt Conveyor	Optional	Optional
Discharge Chute	Optional	Optional

Height-Adjustable Belt Conveyor



2400 - 3200 mm with 7000 mm belt conveyor
3000 - 4000 mm with 10000 mm belt conveyor

The flat belt setting allows liquid concrete with F3/F4 consistency to be loaded.

BTS 1000 1 x Twin Hopper + 1 x Single Hopper

Control Cabinets in Container

Self-Service Terminal with
Debit Card Payment

Sloped Terrain – Plant on Point Foundations

GETTING CONCRETE FORM THE BATCH PLANT

The different options

Network Connection
Using the customer's existing Computer and company network, any number of concrete types can be controlled. The standard network connection enables easy integration with existing IT infrastructure and allows for remote maintenance.

Removable Touchscreen Control Module
Any number of concrete types can be selected or recipes adjusted via the control module.

RFID Chip Cards for Card Reader
The customer can choose the required concrete type and quantity from ten available mixes and receives a chip card. The vehicle/trailer is then positioned under the belt conveyor.
The chip card is scanned by the card reader, and the concrete is automatically fully mixed and loaded.

Pickup Ticket with QR Code
The Concrete Batch Plant supports an unlimited number of concrete types, mix designs, and individual dispensing quantities. Scanning a QR code starts the production process automatically, while master data management enables easy post-calculation of orders and job sites, as well as digital delivery note distribution.

Customer Card
Each customer receives a card with an individual PIN and can use it directly at the plant to select the desired concrete type and required quantity. The digital delivery note provides simple, paperless documentation.

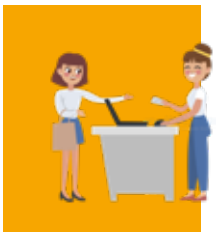
1. Select the concrete type
2. Enter billing address / project details
3. Select the concrete quantity of concrek
4. Individual dispensing quantity

Option 1

Pickup Ticket with QR Code

The pickup ticket with QR code can be created by the operator via a web interface.

A pickup ticket with a unique QR code is printed for each order item.



The pickup ticket is processed at the checkout and handed to the customer.

The customer scans the QR code at the terminal to start the dispensing process.

Option 2

Customer Card

Hold the customer card up to the RFID reader

Enter the unique four-digit PIN

Select the mix and quantity

Confirm the dispensing, start the mixing process, and receive the receipt

Ins add a debit card payment terminal is possible, too.

Planning: Fliegl supports you from the initial concept and planning through to post-installation to find the optimal solution.

Installation: Fast and straightforward on-site installation – the plant is ready for operation in no time.

Service: Whether via remote maintenance or on-site, our Fliegl Service team is always available to support you even after installation.

FLIEGL BAU- UND KOMMUNALTECHNIK GMBH

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