Betomix

Horizontal Mixing Plants

LIEBHERR

Modular Construction

Custom configuration possible

The Betomix can be realised in a wide range of variants and equipment configurations. The perfect alignment with the conditions and requirements of the customer ensures the maximum in benefits.



The mixing plants in the Betomix range are based on a sophisticated modular system. The basic module and various adaptation modules can be combined to provide a multitude of variants and outputs. Ring pan mixers or double-shaft mixers in various sizes can be integrated into the system for complete flexibility.

The aggregate and sand is stored in either an inline silo or tower silo. For loading the mixer, there is a choice of a loading elevator or a loading conveyor.

Tailor-made Solutions

Special applications

A state-of-the-art plant using a modular system meets every requirement profile to provide the optimal solution for the operator. Betomix plants are also exceptionally well-suited to particularly complex plant systems.

For large-scale projects, for instance the construction of embankment dams, Liebherr can plan and realise entire systems with temporary storage chambers and cooling units. The parallel operation of several Betomix plants offers hourly outputs of more than 500 cu. m of set concrete.

The many options mean that Betomix plants can be integrated with existing buildings and site restrictions. As a result, the Betomix is also very popular in the concrete product and prefabricated unit industries.

Betomix plant adjoining at a building

Betomix 3.0 twin plant

Betomix 4.5 with high production capacity

State-of-the-Art Concrete Production

All processes tailored to each other

High dosing accuracy when the materials are being weighed together with moisture measurement during the ongoing process guarantee concrete of the highest quality.

Litronic-MPS, state-of-the-art real-time control, ensures the exact interaction of all components. As a result, the mixing plant yields maximum output volumes and operates very economically. The quality of the components and the long service lifetime of all moving parts guarantee operation with virtually no downtime over a period of many years. The entire plant concept is extremely user- and maintenance-friendly.

The weighing belt

The cement weighing equipment

The moisture measurement

Well-Engineered in every Detail

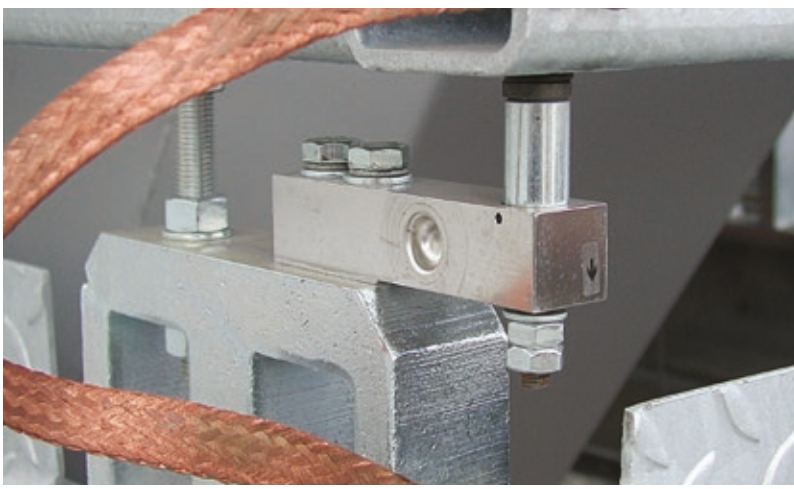
Reliable operation for many years

Betomix plants owe their dependability to careful planning down to the very last detail. They have been developed with the support of more than 60 years of practical experience. All areas of the plant are extremely easy to access.

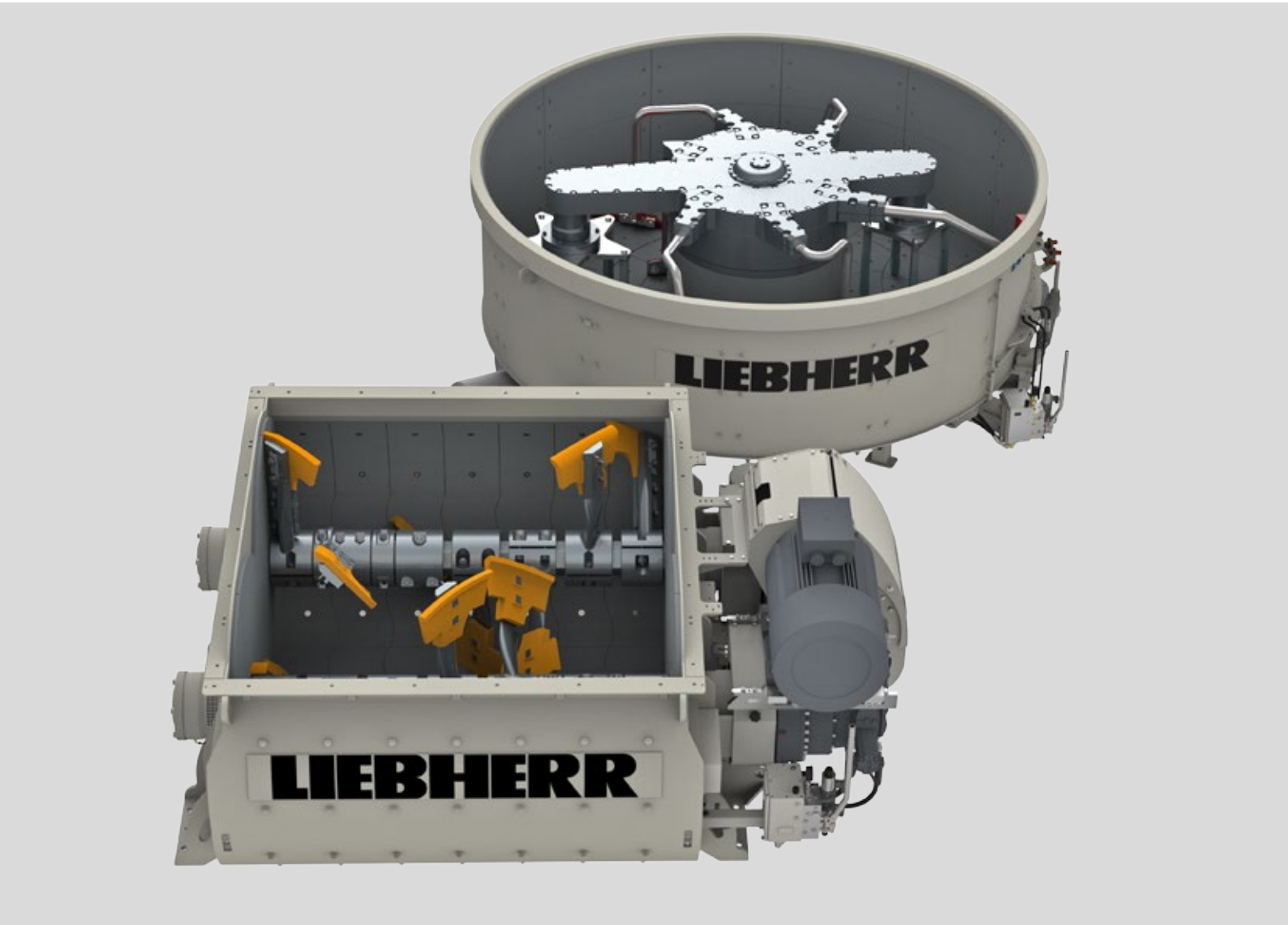
All cables, pipes and other elements are protected in mountings and ducts in order to prevent malfunctions. Provision has also been made for the retrofitting of additional equipment. For example, weighing equipment for silica or ice can be integrated into the plant at a later date. The steel construction is extensively galvanised to ensure that the plant is resistant to corrosion and weathering.

The electrical system complies with international standards

Robust and corrosion-resistant weighing cells



The right Mixer for every Application



Mixing systems made by Liebherr

Liebherr has been developing and constructing its own mixing systems for over 60 years. The range includes double-shaft mixers with nominal volumes from 1.25 to 6.0 m^3, and ring-pan mixers with nominal volumes from 0.5 to 3.0 m^3. Depending on the type, the ring-pan mixers are equipped with a single or double agitator system. A ring-pan mixer with fully autonomous, steplessly adjustable speeds is available for the production of complex types of concrete.

Equipment and Accessories


1


2


3


4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9

1 Micro silica weighing equipment · 2 Ice weighing equipment · 3 There are various additive weighing equipment options
4 Discharge of dry material · 5 Inline silo heating · 6 Twin loading bays
7 Dust filtering systems · 8 High-pressure mixer cleaning · 9 Chutes for truck loading or for reclaiming water

Liebherr provides a wealth of options and additional equipment to satisfy all customer requirements and demands. Depending on the geographical location of the plant, the Betomix is available with an insulated cladding and heating for operation during the winter. For hot regions, the Liebherr range includes all components for adding ice.

Betomix Plants

Basic data/type	2.25	2.5	3.0	3.5	4.5
Mixer size (cu. m)	2,25	2,5	3,0	3,5	4,5
Use of ring-pan mixer	•	•	•		
Use of double-shaft mixer		•	•	•	•
Theoretical output rate for mixed concrete, compacted (cu. m/h) [1]	100	110	120	150	160 [3] / 210 [4]
Theoretical output rate for mixed concrete (cu. m/h) [2]	125	138	150	187	200 [3] / 260 [4]
Version with loading elevator	•	•	•		
Version with loading conveyor	•	•	•	•	•
Number of cement grades	max. 6				
Storage volume with inline silo (cu. m)	70–300		105–500		
Mix constituents with inline silo	4–10				
Storage volume with circular silo (cu. m)	180–1010				
Mix constituents with circular silo	4–12				
Storage volume with tower silo (m^3)	400				
Components with tower silo	4–8				

Special versions available on request

[1] 30-second mixing time
[2] 30-second mixing time, compacting factor v = 1.25
[3] With discharge from truck mixer
[4] With discharge from truck

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