

PLANTS

TRANSPORT-OPTIMISED CONCRETE-MIXING PLANTS CBT ELBA

WITH A PRODUCTION OUTPUT
OF 60–128 m³/h



AMMANN
ELBA

TRANSPORT-OPTIMISED CONCRETE MIXING PLANT

CBT 60 SL ELBA

QUALITY CONCRETE PRODUCTION – RELIABLE AND ECONOMICAL

VERSATILE IN USE

With the new CBT Elba plant Ammann offers a concept for linear and transport-optimised concrete mixing plant. For use as a concrete filling station up to a powerful small plant in the ready-mixed concrete industry or for supplying concrete in the precast concrete industry.

MATURE PLANT CONCEPT

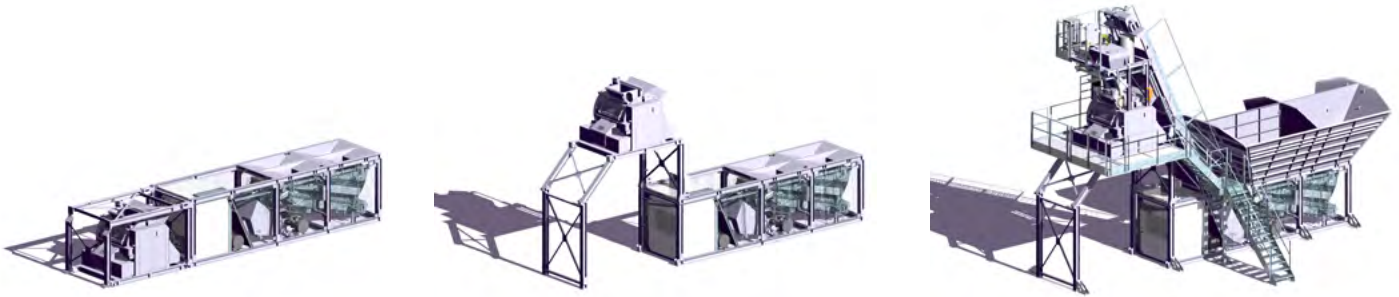
Fast installation times and unproblematic relocation as well as favourable transport dimensions for were the main targets of the engineers developing the new plant concept. Result is the new CBT plant, that is extremely fast in set up times due to its folding mechanisms and compact plant design.

The CBT 60 SL Elba needs just two open-top containers for relocation, emphasising consistent compliance with favourable transport dimensions during development. The compact CBT 60 SL Elba is equipped with an single-shaft mixer CEM 1000 S Elba and in the basic version with an integrated linear bin for storing between 2 and 4 aggregate components. Cement, water and aggregate scales and all other electric and pneumatic plant components are pre-installed ready for operation. The integrated control cabin houses the switching cabinet and offers additional space for the control system. With a theoretical hourly output of 60 m³/h is the new CBT 60 SL Elba the ideal plant for a wide range of applications.

HIGHLIGHTS

- Simple transport
- No foundations needed, soil compaction of 250 kN/m² is sufficient
- Plug & Play – Plants electric and pneumatic components are completely pre-installed
- Short assembling times
- Theoretical output capacity 60 m³/h
- Expandable aggregate storage
- Operation as a concrete filling station (in connection with the as1 control package)





No foundation is required for plant installation. A soil compaction of 250 kN/m² is sufficient. Optional solutions are available for cement silo installation.

Customers also will appreciate the exceptional service and maintenance accessibility designed into the CBT 60 SL Elba.



FAST, LOW-COST INSTALLATION

All sub-assemblies (mixer platform, linear bins) are completely pre-installed and connected to enable fast installation. For assembly the plant is unfolded and erected what reduces significantly the connection and installation costs.

PERFORMANCE

The aggregates are metered and weighed on a conveyor belt. This shortens the cycle time of the mixing plant and achieved a higher output capacity.



Compact linear bin with integrated weighing conveyor belt.

MINIMIZED SITE DEVELOPMENT COSTS

The Ammann CBT Elba mixing plant does not require foundations for installation. A soil compaction of 250 kN/m² is sufficient. This minimize the cost of developing the site.

PARTS

Original Ammann replacement parts are reliable and guarantee the long-term preservation of CBT SL Elba concrete-mixing plants.



Generous service and maintenance platforms ensure best service accessibility.



Metering via weighing belt into the skip bucket.



Integrated container with plant control system.

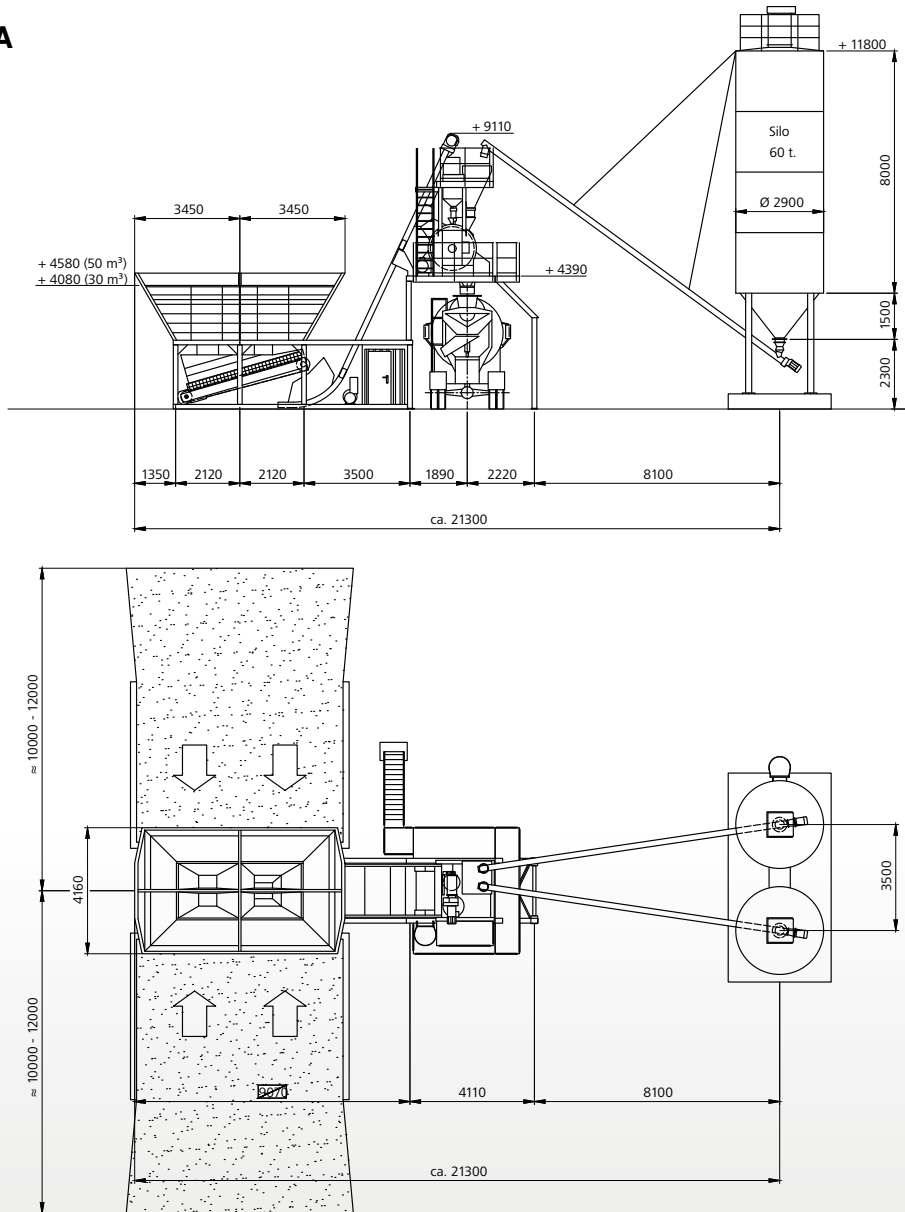


Option: Barcode scanner and traffic light system (concrete filling station).



Optional feeding device.

CBT 60 SL ELBA



TYPE	60
MIXER TYPE ³	CEM 1000 S
MAX. CONCRETE OUTPUT OF THE PLANT COMPACTED FRESH CONCRETE (TRUCK LOADING) ¹	60 m ³ /h
MIXER VOLUME	1000 l
ACTIVE AGGREGATE STOCK (STANDARD INTEGRATED LINEAR BIN) ⁴	30 m ³ max 50 m ³
MAX. COMPONENTS ⁴	2-4
MAX. CEMENT TYPES	4
CONNECTING POWER ² With generator set Simultaneous factor 1	138 KVA
CONNECTION POWER ² Main connection with 1 cement screw conveyor Simultaneous factor 0.8	55 kW

¹ The concrete output depends on several parameters and has to be calculated individually for every case of application.
The figures are based on a discharging on dump trucks.

² The exact electrical connection data are to be determined in accordance with the real plant lay-out including accessories and plant extensions.

³ CEM S = Single shaft compulsory mixer

⁴ Optional Linear bin CEL 25 up to 100 m³ and 3-8 components.

GERMANY

CBT 60 SL ELBA



CZECH REPUBLIC

CBT 60 SL ELBA



KENYA

CBT 60 SL ELBA



GERMANY

CBT 60 SL ELBA



CBT 105–150 TB ELBA

QUALITY CONCRETE PRODUCTION – RELIABLE AND ECONOMICAL

VERSATILE IN USE

Ammann series CBT 105 to CBT 150 TB Elba offer linear transport-optimised concrete-mixing plants with an achievable hourly output of up to 128 m³.

MATURE PLANT CONCEPT

Fast installation times, easy relocation and strict adherence of favorable transport dimensions to realize low transport costs were the goals of the Ammann development engineers. The result is a concrete-mixing plant equipped with sophisticated folding mechanisms and suitable components.

The basic unit can be transported with two 40' open-top containers and one 40' flat-rack container. With this, the development goal of a transport-optimised plant is 100 per cent realized. Depending on the size of the plant, the compact CBT TB Elba mixing plant is equipped with Ammann twin-shaft mixers of the CEM TP Elba series with a compacted concrete output from 2 m³ to 3.5 m³.

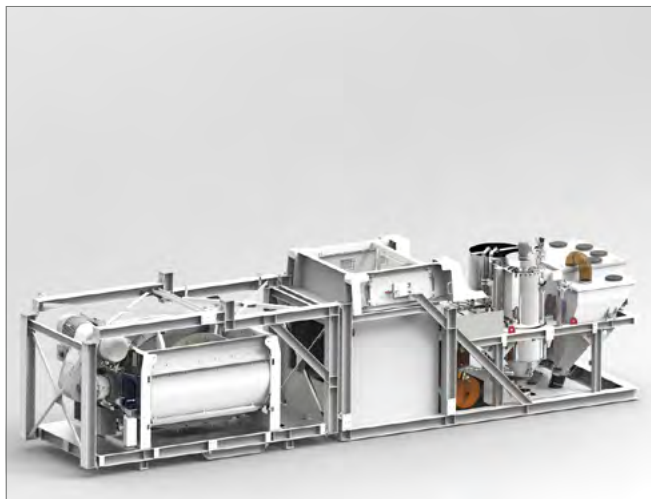
The newly developed linear bin series CEL 25 has the storage capability of three to eight different grain fractions and an active storage capacity of 75 m³ to 100 m³. It allows a wide range of applications, particularly when considering the container transport dimensions. Depending on requirements and customer preferences, the CBT TB Elba mixing plant can also be optionally equipped with the linear bin of the CEL 35 series from the Ammann portfolio with a storage capacity up to 210 m³.

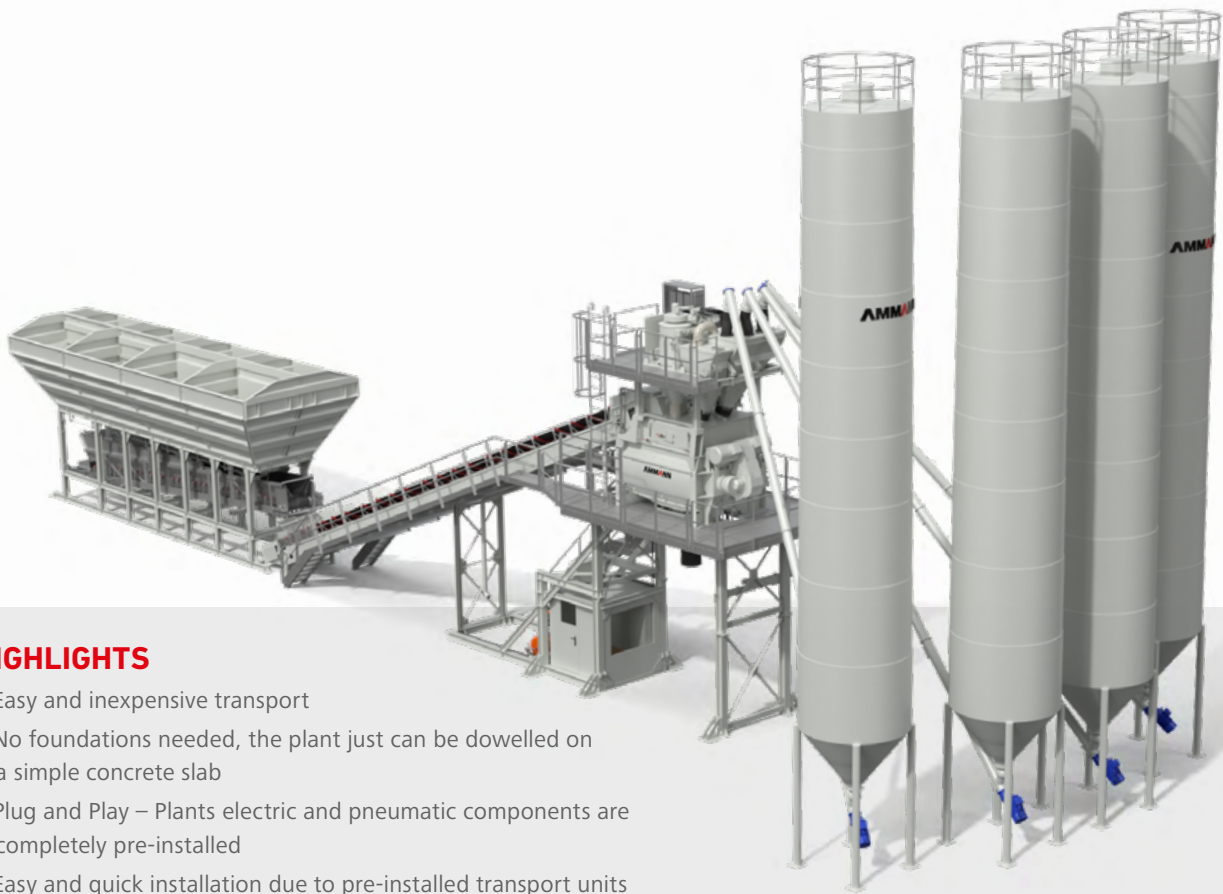
The individual scales for cement, water and aggregates and the optional additive scale are electrically and pneumatically installed ready for operation. Up to six cement screws can be connected to the cement scale.

The switch gear cabinet is built in the control container of the basic unit and ready for operation. The optional automatic Ammann control system can be installed and operated in the container. The air supply for the whole mixing plant is ensured by the compressor installed in the basic unit.

The erection of the CBT TB Elba concrete-mixing plant requires only a simple concrete floor slab. Foundation work is completely eliminated. For the cement silo assembly, optionally foundationless solutions up to 100t silo size are available.

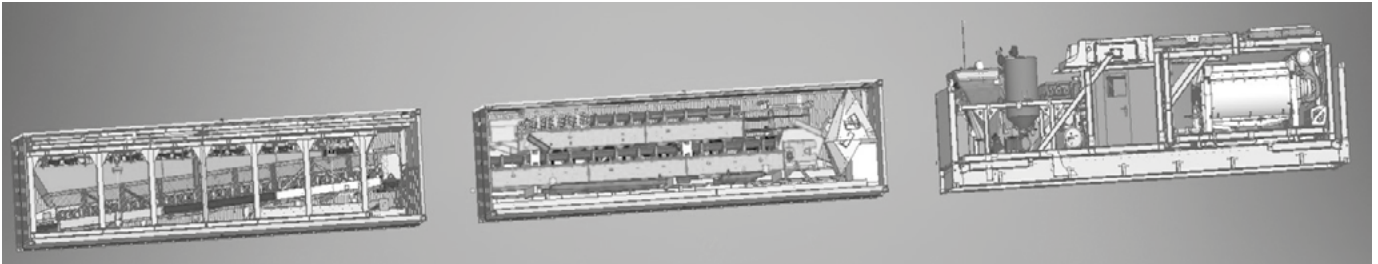
Good accessibility for maintenance and cleaning work was also considered in the development of the CBT TB Elba and reflects the customers' previous positive experience with Ammann concrete-mixing plants.



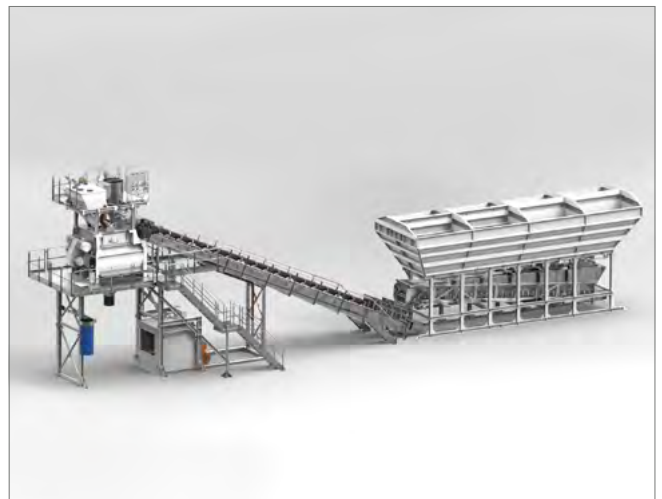
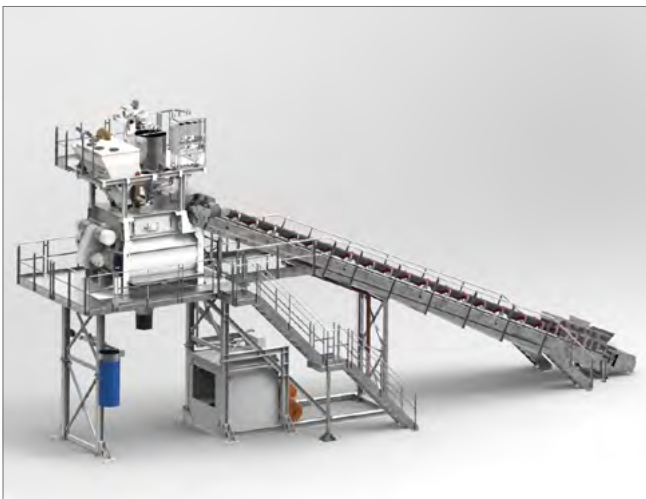


HIGHLIGHTS

- Easy and inexpensive transport
- No foundations needed, the plant just can be dowed on a simple concrete slab
- Plug and Play – Plants electric and pneumatic components are completely pre-installed
- Easy and quick installation due to pre-installed transport units
- Theoretical output capacity up to 128 m³/h



Transport basic unit CBT TB Elba



FAST, LOW-COST INSTALLATION

All installed plant components are connected as much as possible pre-installed both electrically and pneumatically. During assembly, the concrete-mixing plant will be unfolded, erected and the already pre-assembled weighing unit will be mounted on top.

The inclined conveying belt is delivered with an endless vulcanised rubber belt. For transport the belt is divided in 2 pre-mounted sections, lying on above the other. The belt supports are also pre-assembled and locked on the belt frame. For operational readiness, connect the scaffolding, tension the belt and install the walk ways. The supports have predefined fastening points at the plant.

The linear bin is also pre-installed ready for use and placed behind the conveyor belt. Complex connection and installation work is largely eliminated. The aggregate weighing belt and dosing flaps are installed and ready for operation.



Pre-assembled scales frame with cement and water weigher and dedusting filter.



Plant structure and supports, catwalk and stairs and integrated control cabin.



Optional: dedusting filter system.



Mixer drive with automatic central greasing system.

PERFORMANCE

The aggregates were dosed and weighed on the installed weighing belt and then transferred to the inclined conveying belt. The performance of the inclined conveyor belt is designed to reach short cycle times and therefore a high concrete output of the mixing plant can be achieved.

MINIMIZED SITE DEVELOPMENT COSTS

The Ammann CBT TB Elba concrete-mixing plant does not require foundations for installation. It is sufficient a simple concrete slab on which the mixing plant will be fixed. This minimizes the development cost of the site.

PARTS

Original Ammann spare parts are reliable and guarantee a reliable, long-term operation of CBT Elba concrete mixing plants.



Compact mixing plant: Integrated compressed air system, water connection, pluggable electrical connection points for the linear bin and as option the warm water connection.



Fast installation through pre-installed electrical installation Plug & Play.



Aggregates transfer into the mixer trough conveyor belt.



Mixer cleaning flap with integrated inspection hatch contact-protected.

EGYPT

CBT 130 TB ELBA



MYANMAR

CBT 130 TB ELBA



MYANMAR

CBT 130 TB ELBA



GERMANY

CBT 130 TB ELBA



EGYPT

CBT 130 TB ELBA



OPTIONS



Optional concrete probe outlet mixer.



Chevron conveyor belt with optional walkway one-sided.

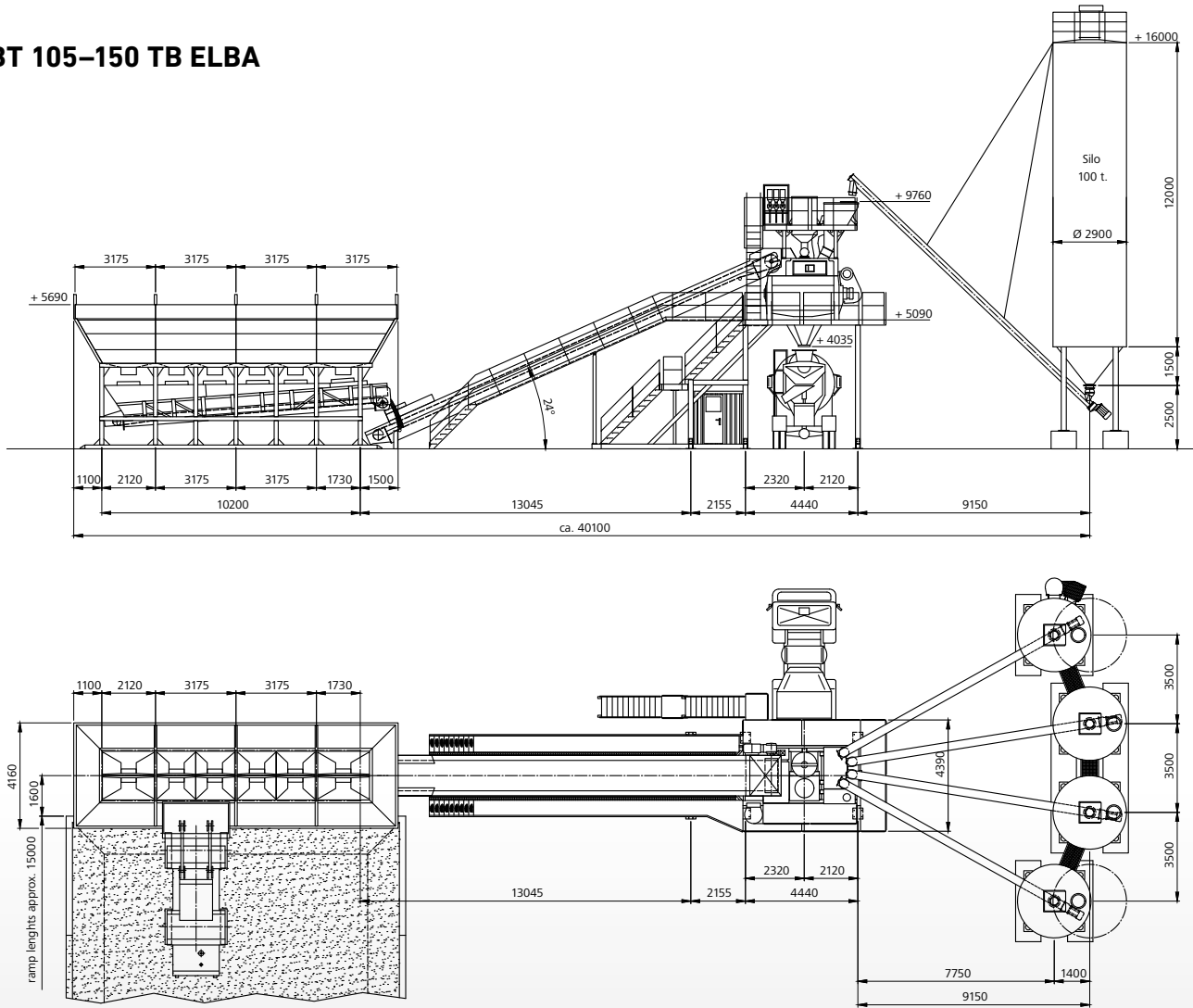


Mixer inlet for cement with the options silica inlet and mixer cleaning system.



Weighing platform with cement weigher and optional silica weigher.

CBT 105–150 TB ELBA



TYPE	105	110	120	130	140	150
MIXER TYPE ⁴	CEM 2000 TP	CEM 2250 TP	CEM 2500TP	CEM 3000 TP	CEM 3333 TP	CEM 3500 TP
MAX. CONCRETE OUTPUT OF THE PLANT COMPACTED FRESH CONCRETE (TRUCK LOADING) ¹	91 m ³ /h	97 m ³ /h	105 m ³ /h	120 m ³ /h	127 m ³ /h	128 m ³ /h
MIXER VOLUME	2000 l	2250 l	2500 l	3000 l	3333 l	3500 l
ACTIVE AGGREGATE STOCK (STANDARD LINEAR BIN CEL 25) ⁵	75–100 m ³	75–100 m ³	75–100 m ³	100 m ³	100 m ³	100 m ³
MAX. COMPONENTS ⁵	3–8	3–8	3–8	4–8	4–8	4–8
MAX. CEMENT TYPES	6	6	6	6	6	6
CONNECTING POWER ^{2/3} With generator set Simultaneous factor 1	315 KVA	335 KVA	335 KVA	360 KVA	414 KVA	414 KVA
CONNECTING POWER ^{2/3} Main connection with 1 cement screw conveyor Simultaneous factor 0.8	125 kW	134 kW	134kW	145 kW	165 kW	165 kW

¹ The concrete output depends on several parameters and has to be calculated individually for every case of application.

The figures are based on a discharging on dump trucks.

² The exact electrical connection data are to be determined in accordance with the real plant lay-out including accessories and plant extensions.

³ Inclined belt with 37 kW accepted.

⁴ CEM TP = Twin shaft compulsory mixer

⁵ Optional Linear bin CEL 35 up to 210 m³ and up to 12 components (not containerised).

For additional products information
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