PLANTS

STATIONARY CONCRETE-MIXING PLANTS CBS ELBA

WITH A PRODUCTION OUTPUT OF 105–200 m^3/h

AMMANN

READY-MIX CONCRETE-MIXING PLANTS CBS ELBA

QUALITY CONCRETE PRODUCTION – RELIABLE AND ECONOMICAL

VERSATILE IN USE

Ready-mix concrete is produced centrally in stationary concrete mixing plants and then transported in ready-mixed concrete trucks to the construction site.
The production of ready-mix concrete is regulated by European standard EN 206.

WELL-CONCEIVED MODULAR PRINCIPLE

Customers and prospective buyers who are familiar with the benefits of a stationary plant will appreciate the variable options offered by the well-conceived modular principle. Most modern designs that are tailored to the needs of users, are joined together to form a modern plant. A galvanized design of maximum corrosion protection and high-quality components make the CBS Elba to a premium concrete mixing plant.

In the construction of the new concrete plant CBS Elba was great value placed on competitive transportation costs. This was achieved by pre-installed modules.

HIGHLIGHTS

- Modular plant concept
- Suitable for global use, thanks to transport optimized mixing plant modules
- Galvanized execution
- Production output from 105–200 m^3/h
- Variable plant setups

WIDE RANGE OF OUTPUT CAPACITIES

Lift-Version	CBS 105 to 140 S/T L
Belt-Version	CBS 105 to 150 S/T B
High production plant	CBS 180 TB and 200 TB

Equipped with a linear bin of the CEL Elba series, with up to 312 m^3 active aggregate storage, the CBS Elba offers a wide range of productive and customer orientated solutions for concrete mixing plants.

Typical installation of ready-mix concrete.

"CBS Elba concrete plants have become the epitome of performance and reliability. They achieve the most environmentally friendly, low-maintenance and low wear performance day by day."

BRIDGE CONSTRUCTION

PORT CONSTRUCTION

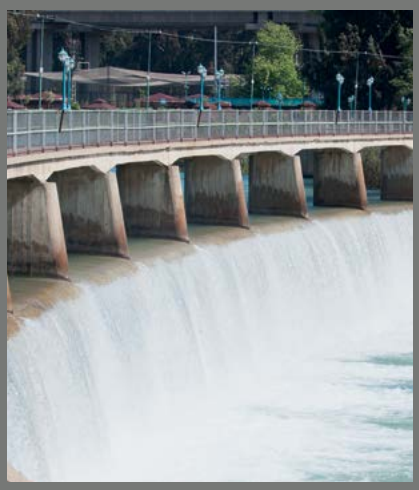
TUNNEL CONSTRUCTION

CONCRETE ROUNDABOUT

CONCRETE FOUNDATIONS

PORT CONSTRUCTION

ROAD CONSTRUCTION



DAM CONSTRUCTION

STRUCTURAL ENGINEERING

CONCRETE-MIXING PLANT CBS 105–140 S/T L ELBA

WITH SINGLE-SHAFT OR TWIN-SHAFT MIXER

LINEAR PLANT WITH SKIP HOIST

As linear plant with skip hoist (L-version), the CBS Elba mixing plant, with a small footprint, offers a generously sized solution for the production of ready-mixed concrete. With a production capacity of standard concrete from 105 m³/h to 140 m³/h, the CBS L Elba concrete plant offers a wide performance range.

GENEROUS MIXER SELECTION

Both, single-shaft or twin-shaft mixer of the type CEM S Elba or CEM T Elba with a volume of 2.0 m³ to 3.33 m³ of hardened concrete per batch can be installed. A generous selection of different maintenance and inspection variations provide variable throughout of the entire plant. The pre-installed weighing module is used for receiving the cement and water weigher and can be fitted if required with optional additional scales.

The aggregates, metered in the separate linear bin, will be transported into the mixer via the in the factory pre-installed skip rail.

HIGHLIGHTS

- Generously dimensioned mixing platform
- Assembling at +/- 0. No feeding pit is required
- Significant dust reduction through optional dedusting plant
- Partly galvanizing is standard
- Adding of additives and special products as option possible
- Foundation-free installation on steel frames as an option
- Winter cladding of the mixing tower as option possible

The installation of the concrete mixing plant CBS L Elba is made in the basic version on concrete foundation. Optional all CBS L Elba plants can also be erected semi-mobile, without foundations.

> „Our tip for you: Equip your Ammann compulsory mixer with EWP wear protection to extend the service life of your plant."

CBS 105 SL Elba

CBS 120 SL Elba

Optional extendable mixer platform for individual execution.

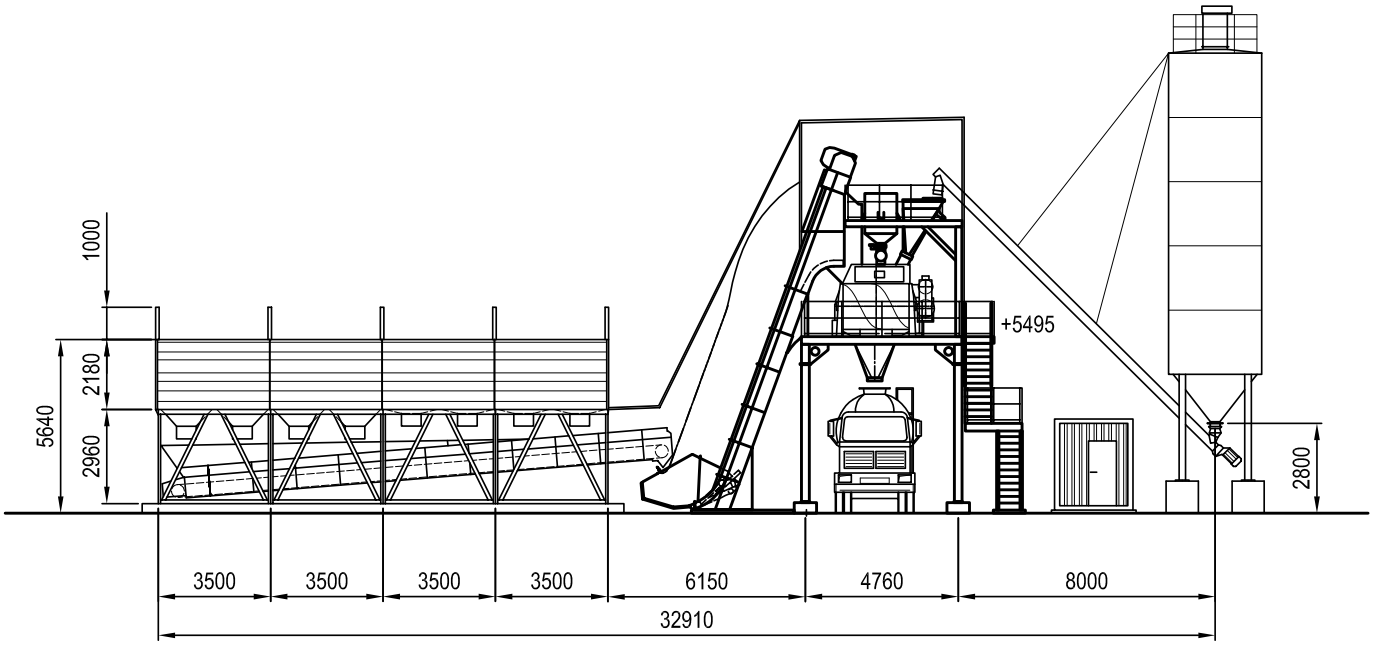
Good accessibility to the skip and weighing bin at the CBS 105 SL Elba.

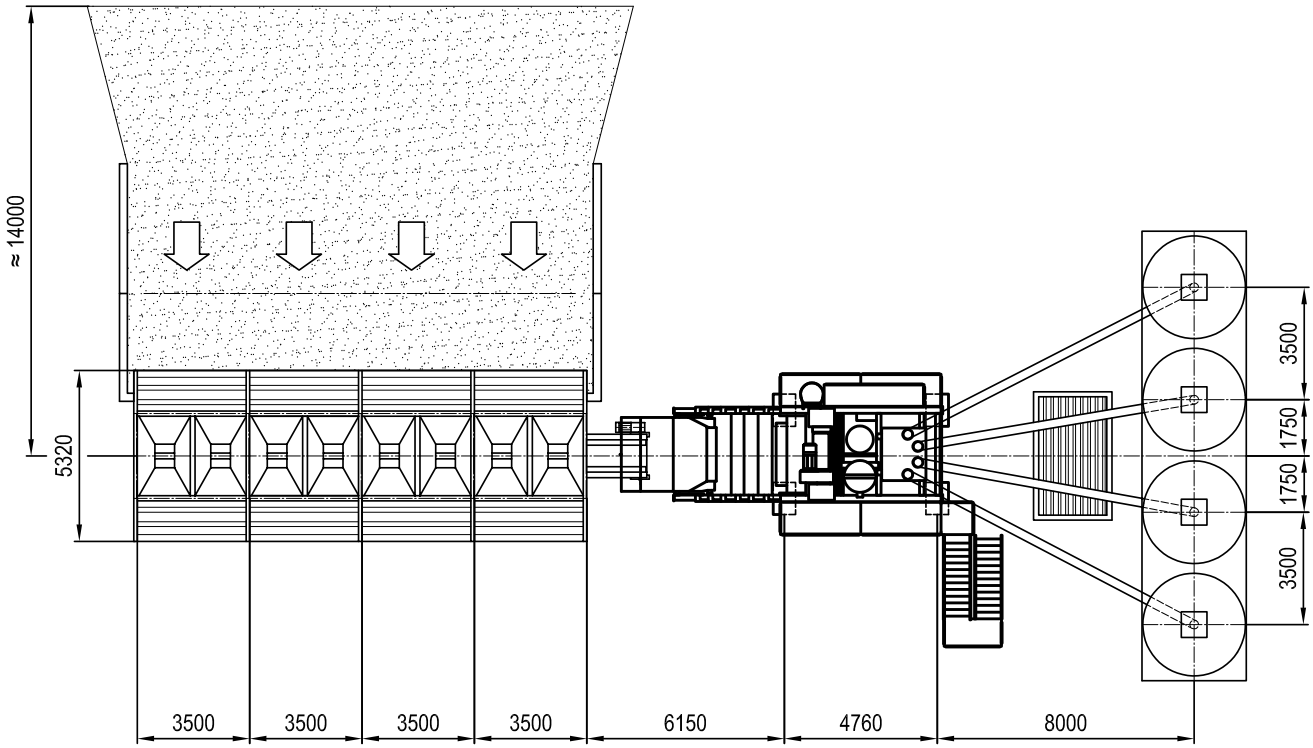
CBS 120 SL Elba

CBS 120 SL Elba

SPECIFICATIONS

CBS 105–140 S/T L ELBA
LINEAR BINS WITH SKIP HOIST





TYPE	CBS 105 S/T L ELBA	CBS 110 S/T L ELBA	CBS 120 S/T L ELBA	CBS 130 TL ELBA	CBS 140 TL ELBA
MIXER TYPE [3]	CEM 2000 S CEM 2000 T	CEM 2250 S CEM 2250 T	CEM 2500 S CEM 2500 T	CEM 3000 T	CEM 3333 T
MAX. CONCRETE OUTPUT OF THE PLANT, COMPACTED FRESH CONCRETE [1]	107 m^3/h	114 m^3/h	121 m^3/h	130 m^3/h	138 m^3/h
MIXER VOLUME	2000 l	2250 l	2500 l	3000 l	3333 l
ACTIVE AGGREGATE STOCK	105–312 m^3	105–312 m^3	105–312 m^3	105–312 m^3	140–312 m^3
MAX. COMPONENTS	3–12	3–12	3–12	3–12	4–12
MAX. CEMENT TYPES	6	6	6	6	6
CONNECTION POWER [2] with generator set | Simultaneous factor 1	280 KVA	320 KVA	320 KVA	350 KVA	380 KVA
CONNECTION POWER [2] Main connection with 1 cement screw conveyor Simultaneous factor 0.8	115 kW	128 kW	128 kW	139 kW	155 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 / CEM T = twin-shaft compulsory mixer

CBS 105 SL Elba

CONCRETE-MIXING PLANT CBS 105–150 S/T B ELBA

WITH SINGLE-SHAFT OR TWIN-SHAFT MIXER

LINEAR PLANT WITH BELT-CONVEYED FEEDING

Customers like to use the conditional by the design higher hourly output of belt-conveyed feeding plant. The floor space required for this, may differ on the local situation which can have a positive impact on the overall design. Difficult conditions can be realized thereby.

Thanks to the mounted pre-hopper on top of the mixer on a belt-conveyed plant, the production output for standard concrete are possible from 114 m^3/h up to 161 m^3/h.

MAXIMUM MIXER SELECTION

Single-shaft or twin-shaft mixer of the type CEM S Elba or CEM T Elba with a volume of 2.0 m^3 to 3.5 m^3 hardened concrete per batch can be installed variably, depending on the machine size. The already generously dimensioned walkability can be optionally by a wide range of different maintenance and inspection variants extended. The pre-installed weighing module with cement and water weigher and the pre-hopper for aggregates can be completed if necessary with additional required scales as option.

The aggregates, metered in the linear bin are dosed by the conveying belt into the above the mixer placed pre-hopper and emptied via a separate locking directly into the mixer.

The installation of the concrete mixing plant CBS B Elba is made in the basic version on concrete foundation. Optional all CBS B Elba plants can also be erected semi-mobile without foundation.

HIGHLIGHTS

- High production rate due to belt conveyor feeding system
- Generously dimensioned mixing platform
- Significant dust reduction through optional dedusting plant
- Partly galvanizing is standard
- Adding of additives and special products as option possible
- Foundation-free installation on steel frames as an option
- Winter cladding of the mixing tower as option possible
- Quick installation through pre-assembled modules

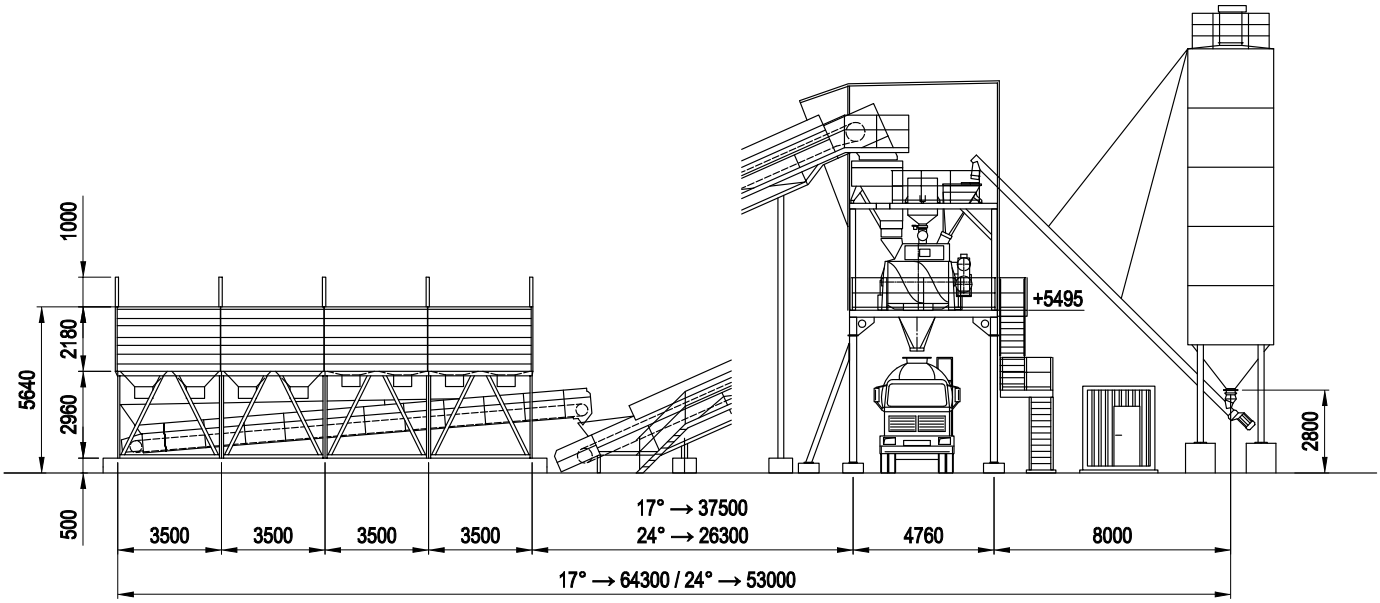
> „Our tip for you: Equip your Ammann compulsory mixer with EWP wear protection to extend the service life of your plant."

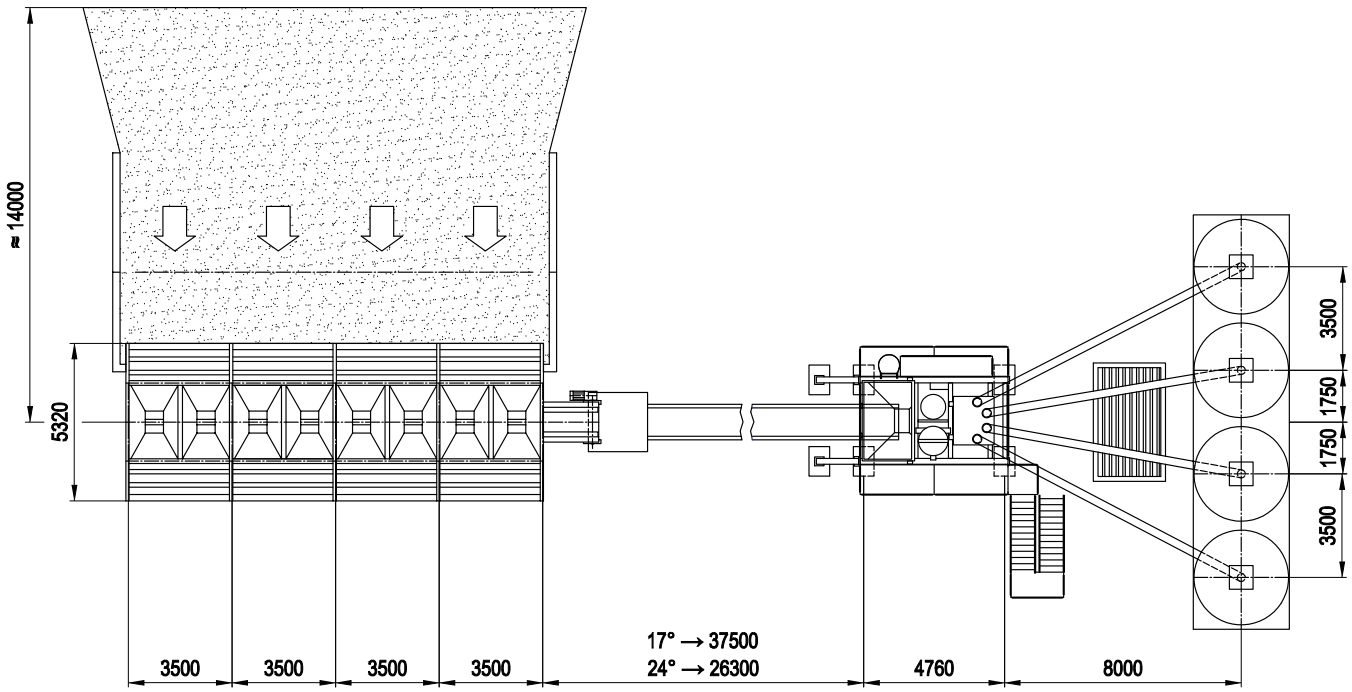
CBS 120 TB Elba

CBS 120 TB Elba

SPECIFICATIONS

CBS 105–150 S/T B ELBA
LINEAR BINS WITH BELT-CONVEYED FEEDING





TYPE	CBS 105 S/T B ELBA	CBS 110 S/T B ELBA	CBS 120 S/T B ELBA	CBS 130 TB ELBA	CBS 140 TB ELBA	CBS 150 TB ELBA
MIXER TYPE [4]	CEM 2000 S CEM 2000 T	CEM 2250 S CEM 2250 T	CEM 2500 S CEM 2500 T	CEM 3000 T	CEM 3333 T	CEM 3500 T
MAX. CONCRETE OUTPUT OF THE PLANT, COMPACTED FRESH CONCRETE [1]	114 m^3/h	120 m^3/h	128 m^3/h	152 m^3/h	158 m^3/h	161 m^3/h
MIXER VOLUME	2000 l	2250 l	2500 l	3000 l	3333 l	3500 l
ACTIVE AGGREGATE STOCK	105–312 m^3	105–312 m^3	105–312 m^3	105 – 312 m^3	140–312 m^3	140–312 m^3
MAX. COMPONENTS	3–12	3–12	3–12	3–12	4–12	4–12
MAX. CEMENT TYPES	6	6	6	6	6	6
CONNECTION POWER [2/3] with generator set | Simultaneous factor 1	275 KVA	306 KVA	306 KVA	335 KVA	375 KVA	375 KVA
CONNECTION POWER [2/3] Main connection with 1 cement screw conveyor Simultaneous factor 0.8	110 kW	122 kW	122 kW	133 kW	150 kW	150 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 30 kW accepted
[4] CEM S = single-shaft compulsory mixer / CEM T = twin-shaft compulsory mixer

CBS B Elba

CONCRETE-MIXING PLANT CBS 180–200 TB ELBA

WITH TWIN-SHAFT MIXER

HIGH PRODUCTION PLANT WITH BELT-CONVEYED FEEDING

Large construction sites need high concrete output rates with a reliable, durable and consistant concrete quality. For our high-performance systems CBS 180 TB Elba and CBS 200 TB Elba becomes available.
For standard concrete an hourly output of 177 m³/h up to 190 m³/h are possible.

HIGH VOLUME MIXERS

The twin-shaft mixer CEM T Elba used in these mixing plants is in size 4.0 m³ at CBS 180 TB Elba and 4.5 m³ at CBS 200 TB Elba.
The generously dimensioned walkability facilitate the maintenance and inspection work. The pre-installed weighing module with cement and water weigher and the pre-hopper for aggregates can be completed if necessary with additional required scales as option.

The aggregates, metered in the linear bin are dosed by the conveying belt into the above the mixer placed pre-hopper and emptied via a separate locking directly into the mixer.

The installation of the concrete mixing plant CBS B Elba is made in the basic version on concrete foundation. Optional all CBS B Elba plants can also be erected semi-mobile without foundation.

HIGHLIGHTS

- High production output
- Generously dimensioned mixing platform for easy access and service ability
- Significant dust reduction through optional dedusting plant
- Partly galvanizing is standard
- Adding of additives and special products as option possible
- Foundation-free installation on steel frames as an option
- Winter cladding of the mixing tower as option posssible
- Quick installation through pre-assembled modules

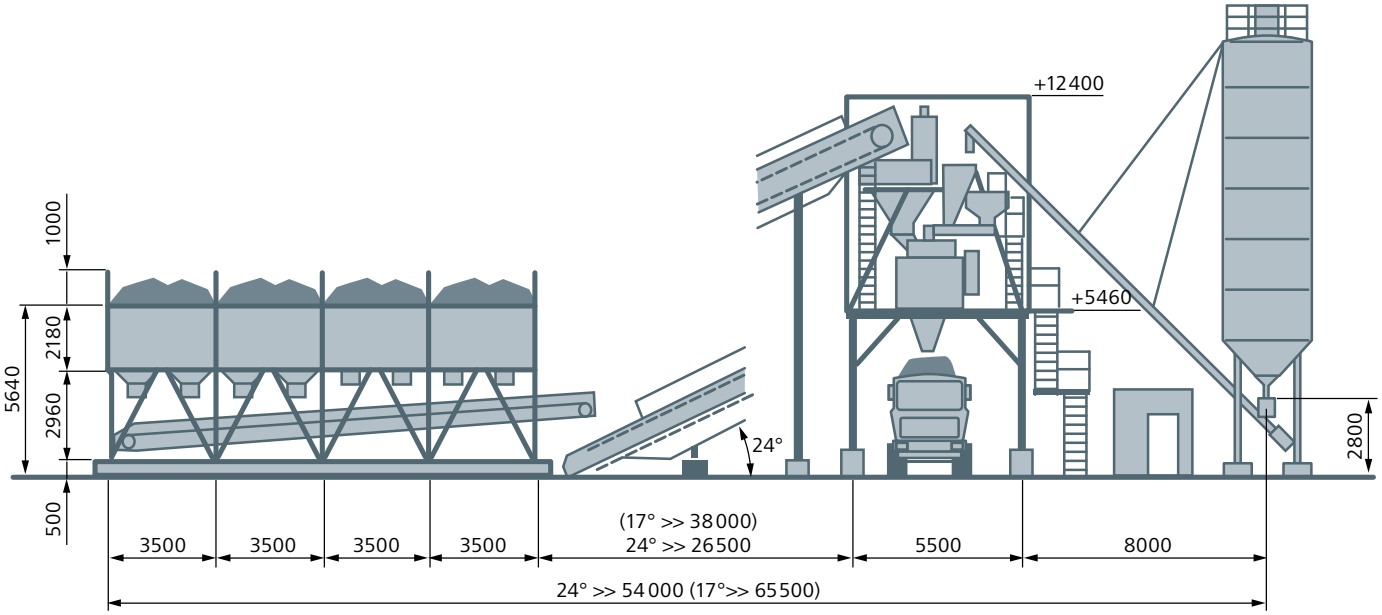
> „Our tip for you: Equip your Ammann compulsory mixer with EWP wear protection to extend the service life of your plant."

CBS 200 TB Elba

The CBS 180 TB Elba just before commissioning.

SPECIFICATIONS

CBS 180–200 TB ELBA
LINEAR BINS WITH BELT-CONVEYED FEEDING



TYPE	CBS 180 TB ELBA	CBS 200 TB ELBA
MIXER TYPE [4]	CEM 4000 T	CEM 4500 T
MAX. CONCRETE OUTPUT OF THE PLANT, COMPACTED FRESH CONCRETE [1]	177 m^3/h	190 m^3/h
MIXER VOLUME	4000 l	4500 l
ACTIVE AGGREGATE STOCK	140–312 m^3	140–312 m^3
MAX. COMPONENTS	4–12	4–12
MAX. CEMENT TYPES	6	6
CONNECTION POWER [2 / 3] With generator set| Simultaneous factor 1	550 KVA	550 KVA
CONNECTION POWER [2 / 3] Main connection with 1 cement screw conveyor Simultaneous factor 0.8	222 kW	222 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 30 kW accepted
[4] CEM T = twin-shaft compulsory mixer

CBS DETAILS

The Ammann mixer is equipped with every required safety switch and meets the current machine directive.

Local mixer operation facilitates cleaning and maintenance work.

The mixer is equipped as standard with a central mixer lubrication system.

The mixer wearing parts consist entirely of screwless elements. Only the two last rows are screwed into place. The big advantage: better utilisation of wear material.

Mixer viewing window: a safety end switch ensures visual control when the mixer cleaning system is switched on.

The twin-shaft compulsory mixer features two synchronised motors and two gear systems connected by toothed belts with protection against damage.

Generously dimensioned maintenance doors facilitate maintenance and cleaning work.

The mixer and cement weigher are connected via an aeration hose. The self-contained system ensures the required pressure compensation.

Quality control via optional camera system: mounted to a pneumatically operated camera shaft directly on the mixer.

CBS OPTIONS

A total of four motorised cleaning jets ensure the mixer looks as good as new.

The half-shelf on the shaft sealing enables quick and easy maintenance. It is no longer necessary to remove the gear system and motor.

Lowerable mixer discharge funnel clad with EWP wear protection.

EWP Elba wear protection is a complete set consisting of highly wear-resistant polyurethane. It is designed to fit exactly, for instance on the mixer shaft and paddles, discharge hopper and aggregate skip.

The CBS 130 TL Elba on concrete foundations. The plant can also be supplied on steel frame foundations as an optional extra.

The central dedusting filter has a separate maintenance platform.

GERMANY

CBS 120 SL ELBA

Silo 5
Silo 4

For additional product information
and services please visit:
www.ammann.com

Materials and specification data are subject to change without notice.
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