ELBA CONCRETE MIXING SYSTEMS

SINGLE-SHAFT COMPULSORY MIXER,
TWIN-SHAFT COMPULSORY MIXER,
PLANETARY COUNTERCURRENT MIXER

AMMANN
AMMANN GROUP WORLDWIDE
NINE PRODUCTION LOCATIONS AND OVER 100 AGENCIES AND SALES PARTNERS

MACHINES

LIGHT COMPACTION

SOIL & ASPHALT COMPACTORS

ASPHALT PAVERS

PLANTS

CONCRETE MIXING PLANTS

ASPHALT MIXING PLANTS
Ammann is a world-leading supplier of mixing plants, machines and services to the construction industry, with core expertise in road-building and transportation infrastructure. Our strengths are the forthcoming approach of a family firm that has been operating for many years, coupled with our strong and well-established international presence. Since 1869, we have been setting benchmarks in the road-building industry, thanks to countless innovations and solutions that are as competitive as they are dependable.

True to our motto, “Productivity Partnership for a Lifetime,” we gear our activities to the needs and requirements of our customers around the globe. We are aware that plants and machines that prove their merits day after day under tough operating conditions are the only way to give our customers the critical, competitive edge they need. As you would expect, we provide a well-developed service network and reliable supply of spare parts, together with support throughout the lifetimes of the plants and machines that we offer.
Our mixing systems have been continuously developed and have been tested with all the challenges of daily performance in our own mixer development center. The results are long life combined with efficient mixing technology. This represents a big advantage for you. As a concrete manufacturer using Ammann Elba mixing systems you can be sure of your end product.

**SINGLE-SHAFT COMPULSORY MIXER CEM S ELBA**
The Ammann Elba single-shaft compulsory mixer with double spiral has worldwide approval under different operating conditions. Intensive mixing and short homogenization are characteristic of the Ammann Elba mixing principle. The mixers can be supplied for different sizes from 0,5 to 2,66 m³. The CEM 60 S Elba with a mixing volume of 60 l is ideally suited for concrete development and laboratory applications.

**TWIN-SHAFT COMPULSORY MIXER CEM T ELBA**
As you would expect, Ammann Elba twin shaft mixers are also equipped with the double mixing spiral. The twin shaft mixers are available in the sizes 2 m³ up to 4,5 m³. An almost 100% discharge by discharge doors at the lowest point enable a high output capacity and a high mixing intensity.

**THE PLANETARY COUNTERCURRENT MIXER CEM P ELBA AND CEM P**
High-intensive mixing by planetary countercurrent mixing stars plus multiple discharge gates are the key features for this model range. For demanding mixing of concrete on all applications in the concrete product and precast concrete industry this version can be offered in the sizes from 0,25 m³ up to 4 m³.
More than 60 years of experience in mixing-system technology ensures high efficiency mixer performance.
Ammann Elba with its single-shaft compulsory mixer has its place with its clear and practice-oriented mixer concept. The single-shaft compulsory mixer with double spiral has been worldwide approved under different conditions. Continuous upgrading guarantees constant high quality.

THE MIXER PRODUCES CONSISTANT PRODUCTS OF ANY OF THE TYPES BELOW:

• Heavy-weight, normal-weight and light-weight concretes
• Cold and warm concretes
• Polystyrene concretes
• Expanded clay concretes
• Foamed concretes
• Self compacted concrete (SCC)
• Self compacted light concretes
• Ultra-High Performance Concrete
• Concrete with recycled aggregates
• Aqueous to earthy slurries of the process engineering and ecological technic
• Bituminous materials
• Bentonit/clay mixtures
• Glass mixtures
• Perlit and styropor mixtures

The compact design of the mixer ensures short material movement. The arrangement of the mixing tools enables very intensive mixing and short mixing times. In the single-shaft compulsory mixer, mixed materials are not separated by horizontal centrifugal separation. Depending on its size, the Ammann Elba mixer processes grain sizes up to 180 mm Ø.

The CEM S Elba has proved its efficiency by detailed tests with the ibu (Institute for construction methods- and environment technique) of the University of Trier / Germany. The tests have been carried out according to DIN 459/part 2 as well as RILEM TC 150–ECM. Subject of the test have been different sorts of concrete, as well as self-compacting concrete.

The test result – High Performance Mixer – underlines once again the excellent efficiency of the Ammann Elba mixing system.

There are many trough tiles available for the different uses of the Ammann Elba single-shaft compulsory mixer.

• Chilled casting tiles without bolts-patent pending
• Hardox tiles
• Synthetic material
The mixer are driven by proven squirrel-cage geared motors. The final transmission step is designed as a simple and rugged chain drive (not in case of CEM 500 S Elba); thus facilitating access to mixer shaft bearing and sealing.

A lubricant pump driven by an electric motor provides the mixer shaft bearing with lubricant. An empty alarm switch indicates the necessity of refilling in time. Lubricant may be filled dirt-free through an existing filling coupling. The filling level is controlled through the transparent tank. Lubrication can also be made by hand.

The chain adjuster is easy to access and has noiseless chain saving plastic profile.

The mixer gate is operated pneumatically. The pneumatic cylinders are arranged in such a way that they are protected against contamination. Magnetic field switches enable individual adjustments for regulating the discharge rate (not on CEM 500 S Elba).

Inside view of CEM 1000 S Elba

The mixer shaft bearing and the sealing of the 500–2500 litres CEM S Elba series guarantee low maintenance requirement.
The large discharge gate of the mixer allows rapid discharge of the mixer.

Mixer access openings protected by additional robust safety interlocking systems (in conformity with EN 1088:2008).

Upon request, the mixer can be fitted with intake connection for additives and an air-bleed hose to be connected to the cement scale and filter. The rectangular ventilation channel is suitable for the installation of a video camera incl. illumination, allowing the mixing process to be observed via monitor. (Only in connection with suction filter plant).

Optional, we have a mixer cleaning system at our disposal for the mixer CEM 1000 S Elba to CEM 2500 S Elba. The cleaning tube provided with nozzles may be slewed by 270 degrees by an electric motor. Cleaning is either controlled automatically or manually. A multi-stage pump draws the cleaning water from the bin of the water scale for example.
## SPECIFICATIONS

### Laboratory Mixer CEM 60 S Elba

<table>
<thead>
<tr>
<th>Type</th>
<th>CEM 500 S ELBA</th>
<th>CEM 1000 S ELBA</th>
<th>CEM 2000 S ELBA</th>
<th>CEM 2250 S ELBA</th>
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<td>0.5 m³</td>
<td>1.0 m³</td>
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### Dimensions

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**Laboratory Mixer CEM 60 S Elba**

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Laboratory Mixer CEM 60 S Elba.
“Simply double” was the basis on which to develop the twin shaft compulsory Mixers. From this simple idea the high efficiency twin shaft mixer concept was created.

The core of this mixer is the double spiral, well proved in the Ammann Elba single-shaft mixer. The positive experience with this model was incorporated in the mixing technology of the twin-shaft mixer. The model line CEM T Elba enables a compacted concrete discharge of 2 m³ up to 4,5 m³ per batch and they complete the Ammann Elba product range.

Unique to this model is the discharge design, which is located at the lowest part of the mixer. As a result almost 100% discharge will be achieved. After the cleaning process of the mixer there is no residual water to affect the next batch.

CEM T Elba mixers are also equipped with the screwless mixer lining as well as the unique labyrinth sealing technology well known from the CEM S Elba mixer line. Rapid and cost-effective servicing is a result of this technology.

Twin-shaft compulsory mixers are available in the Ammann Elba mixing plants from model 105 to 200 and also as a single mixer. Due to the compact design they are extremely well suited for cost-efficient installations in existing mixing plants.

The efficiency of CEM T Elba models has been proved in exhaustive tests with the IBU (institute for methods- and environment technique) at the University of Trier/Germany.

Test products included different concrete mixes, including self-compacting concrete. The test result classified this mixer as a “High Performance Mixer” which underlines once again the excellent efficiency of the Ammann Elba mixing system.

Model CEM T Elba is a reliable mixing system that allows you to get a homogenous mixing within a short period of time as well as ongoing economical production. All concrete mixes produced with the CEM S Elba product line can also be produced with the CEM T Elba product line.

Discharge gate open

Access to the labyrinth sealing via half-shells from inside the mixer reduces the service to a minimum without dismantling of the bearings.

The intensive mixing action results from the axial and radial movement of the well proved Elba-mixing spirals.

Central greasing device with grease flow control.

First gear ratio via efficient toothed belt drive. Electronic toothed belt survey.

Mixer through lining by patented «screwless interlocking tiles».
Extensive possibilities to connect with machine’s technical devices (weighers, aeration filters etc) (option).

A flap with elastical sealing strips closes the aggregate inlet (option).

Arrangements of the cleaning nozzles (option)

Mixer access openings protected by additional robust safety interlocking systems (in conformity with EN 1088:2008).

Observation of the mixing process through an opening flap, protected against accidental contact and features large cleaning opening gates.
# SPECIFICATIONS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CEM 2000 T ELBA</th>
<th>CEM 2250 T ELBA</th>
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* Air requirement per cycle (uncompressed air)
The planetary countercurrent mixers CEM P Elba and CEM P complete the Ammann Elba programme of single shaft and twin shaft mixers. The design of the planetary countercurrent mixers is based on years of experience in designing and producing concrete mixing systems. Depending on the type of the planetary countercurrent mixer the sizes range from 375 litres to 6000 litres filling capacity and allow compacted concrete outputs of 250 to 4000 litres.

This mixer type distinguishes itself by a rotor which turns around the vertical centre axis and, depending on the mixer size, is fitted with 1 or more rotating mixing stars. Due to the offset rotational axis of the mixing stars the individual mixing tools of the mixing stars form a sort of planetary path.

CEM P Elba and CEM P are mainly used in the block-making and concrete precast industry and are particularly suited for the production of the following concrete types:

- Face and core concrete
- Normal concrete
- Light-weight concrete
- Heavy-weight concrete
- Self-compacting concrete
- Self-compacting light-weight concrete
- Ultra-high performance concrete
- Special products such as foamed concrete

As the Ammann Elba planetary countercurrent mixers are able to produce a large range of different concrete types and qualities they are used in various industries:

- Paving stone making plants using face and core concretes
- Concrete pipe making plants
- Carrousel plants producing different concrete products
- Precast concrete works needing medium to large concrete quantities
- Combined plants for the production of precast concrete and ready-mix concrete

HIGHLIGHTS

- Good accessibility
- Intensive mixing
- Wide performance spectrum
- Fast discharge
- Several discharge openings (option)
The Ammann Elba planetary countercurrent mixer series comprises CEM P Elba and CEM P type mixers which mainly differ in the way they are driven. Whereas in the CEM P Elba mixers the power is input in the planetary gear at two points by two motors, in the CEM P mixer, the necessary driving power enters the planetary gear via one central motor. This allows different applications up to the optionally available central feeding of cement in case of the CEM P Elba mixer.

Opening and closing of the mixer gate is controlled electro-hydraulically. The large discharge gate ensures short discharging times. Several discharge openings are offered as options and allow the mixer to be tailored to specific concrete discharging tasks such as connection to bucket conveyor, concrete distributor or truck mixer feeding. It goes without saying that the mixer gate is fitted with a manual emergency opening. Depending on the mixer type (CEM P Elba), the large maintenance and cleaning gates are opened by gas spring support. Additional openings which cannot be reached in allow the mixing process to be observed when the cleaning gates are closed.

As a standard, Ammann Elba planetary countercurrent mixers are lined with wear plates and the counterflow principle ensures a long operating life and low operating costs. Other linings are offered as options.

THE FOLLOWING OPTIONS ARE AVAILABLE:

- Wearing protection mixing arms:
  Elba Wearing Protection EWP made of polyurethane
- Additional mixer discharge gates
- Lining of mixing trough by plates of composite material (61 HRC)
- High-pressure mixer cleaning using 3–4 rotating nozzle units (100 bar operating pressure)
- Inlet opening (for cement etc.) in the centre of the mixer in case of CEM P Elba mixers
- Integration of consistency measuring probes
- Electronic soft-start device for CEM P Elba mixers or hydrodynamic coupling from CEM P upward
- Temperature measurement

Ammann Elba planetary countercurrent mixers can be integrated as Retrofit units in existing production plants or can, with Ammann Elba modules CMP, be offered as complete mixing units in different production plants.
CEM P internal view with cast iron mixing blades (standard)

Standard CEM P Elba with mixing showels, optional EWP.

CEM P swivelled in sidcharge aid (option).

CEM 1500 P with agitator (option).

PLANETARY COUNTERCURRENT MIXER
CEM P ELBA

PLANETARY COUNTERCURRENT MIXER
CEM P
## SPECIFICATIONS

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- **COMPACTED FRESH CONCRETE**: 500 l, 1000 l, 1500 l
- **UNCOMPACTED FRESH CONCRETE**: 725 l, 1450 l, 2175 l
- **DRY VOLUME**: 750 l, 1500 l, 2250 l
- **WEIGHT**: 3150 kg, 5570 kg, 7150 kg
- **ENGINE OUTPUT**: 2 x 10 kW, 2 x 24 kW, 2 x 33 kW
- **HYDRAULIC UNIT POWER**: 4 kW, 4 kW, 4 kW
- **MIXING STARS**: 1, 1, 1
- **MIXING ARMS**: 1 x 2, 2 x 2, 2 x 2
- **SIDE SCRAPERS**: 1, 1, 1
- **DISCHARGE AID**: 1, 1, 1 (optional 2)

### DIMENSIONS

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<th>CEM 4500 P</th>
<th>CEM 6000 P</th>
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- **COMPACTED FRESH CONCRETE**: 250 l, 333 l, 500 l, 750 l, 1000 l, 1500 l, 2000 l, 2500 l, 3000 l, 4000 l
- **UNCOMPACTED FRESH CONCRETE**: 365 l, 485 l, 725 l, 1090 l, 1450 l, 2175 l, 2900 l, 3625 l, 4350 l, 5800 l
- **DRY VOLUME**: 375 l, 500 l, 750 l, 1125 l, 1500 l, 2250 l, 3000 l, 3750 l, 4500 l, 6000 l
- **WEIGHT**: 1440 kg, 1610 kg, 2090 kg, 3700 kg, 4880 kg, 5590 kg, 8800 kg, 9100 kg, 11800 kg, 16880 kg
- **ENGINE OUTPUT**: 9.2 kW, 11 kW, 18.5 kW, 37 kW, 45 kW, 75 kW, 90 kW, 110 kW, 132 kW, 160 kW
- **HYDRAULIC UNIT POWER**: 2.2 kW, 2.2 kW, 2.2 kW, 3 kW, 3 kW, 3 kW, 4 kW, 4 kW, 7.5 kW, 7.5 kW
- **MIXING STARS**: 1, 1, 1, 1, 1, 1, 2, 2, 3, 3
- **MIXING ARMS**: 1 x 2, 1 x 2, 1 x 3, 2 x 2, 2 x 2, 3 x 3, 3 x 3, 3 x 3
- **SIDE SCRAPERS WITH DISCHARGE AID**: 1, 1, 1, 1, 1, 1, 1, 1
- **FAST DISCHARGE AID**: - - Option Option Option Option Included Included Included Included

### DIMENSIONS

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17
EWP Elba Wear Protection

WHAT’S EWP?
EWP is a complete wearing-set with an excellent price performance ratio. Consisting of high wear resistant polyurethane. This is dimensionally accurate and suitable for mixer shaft-and arms, discharge hopper and skip.

WHY USE EWP?
You want to extend the lifetime of your batching plant. Protect your machine parts which are subject to wear and tear, to achieve a maximum of lifetime of these components.

HIGHLIGHTS
• Long lifetime
• Less caking within the mixer, discharge hopper and skip
• Easy cleaning
• Wear protection is quickly and simple to install
Extend the life time of your batching plant with Elba wear protection.