

BAUMA 2010 Press Info
January 2010



On the BAUMA 2010, ELBA presents technical innovations, newly developed and advanced machines

ELBA-WERK Maschinen-Gesellschaft mbH is committed to produce high-standard construction machines for concrete. Machines that are in the lead with respect to quality, performance, and economic efficiency. For over 60 years, ELBA has developed, fabricated and sold machines and systems to produce and transport concrete.

The heart of every concrete mixing system is its compulsory mixer. Depending on purpose and capacity one may choose among several ELBA mixing systems. The ELBA single-shaft and twin-shaft mixers distinguish themselves by the double-spiral system and enable the material to be mixed gently and very efficiently. The EMS and EMDW compulsory mixers were rated „High Performance“ machines according to RILEM Final Report TC 150-ECM and meet all DIN 459 requirements.

On the BAUMA 2010, ELBA, for the first time, presents its new **ELBA Planetary Counterflow Mixer EMPG 1000**.

The ELBA product range includes:

- Single-shaft compulsory mixers
- Twin-shaft compulsory mixers
- Planetary counterflow mixers
- Stationary concrete mixing plants
- Mobile concrete mixing plants
- Linear bins
- Control systems for mixing plants, precast factories and concrete pumps
- Truck-mounted concrete pumps
- Stationary concrete pumps
- Manually operated and fully automatic scrapers

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New on the BAUMA

On the BAUMA, ELBA presents the newly developed **ELBA Planetary Counterflow Mixer EMPG 1000**.

Planetary counterflow mixers are mainly applied in block-making. This mixer type distinguishes itself by a rotor which turns around the vertical center axis and, depending on the mixer size, is fitted with 1 to 3 rotating mixing stars or agitators. Due to the rotational axis of the mixing stars the individual mixing tools of the mixing stars form a sort of planetary path.

In all the planetary counterflow mixers available so far, the speed of the mixing stars was considerably higher than that of the rotor, as the speed ratio between rotor and mixing stars is determined by the gear ratio chosen by the manufacturer.

The **new gear** of the ELBA planetary counterflow mixer EMPG 1000 enables a variety of ratios to be set between rotor and mixer, thereby allowing within one mixing cycle a range of variation of mixing kinematics unknown so far.

The advantage of the possibility of adjusting various speeds is a targeted mixing effect. That means that the energy input and/or the speed ratio may be adjusted to the respective mix. Additional advantages are the targeted energy input in the mixer and, thus, the possibility of minimizing wear. A fact that, in view of constantly progressing development of concretes and continuously rising energy costs, is of increasing importance.



Fig. 1: ELBA Planetary Counterflow Mixer EMPG 1000

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Extension of the twin-shaft mixer series EMDW

The series is extended by the **EMDW 2000** and **EMDW 2500** mixers featuring outputs of compacted concrete of 2 cbm, and 2.5 cbm respectively. In practical operation, not only normal concretes, but also SCC (self-compacting concrete) as well as heavy-duty concretes are produced successfully. The mixers can either be incorporated into the stationary EBC 105 and EBC 110 mixing plants or applied as single mixers. The ELBA programme of twin-shaft mixers ranges from the EMDW 2000 (2 cbm) to the EMDW 4500 (4.5 cbm) mixers.



Fig. 2: ELBA Twin-Shaft Compulsory Mixer EMDW 2000

Novelty: ELBA Supermobil ESM 30 C (Container System)

This Supermobil system basing on a 40' maritime container with CSC license reduces the transport costs and the assembly time to a minimum. The flexible concrete discharging allows this system to be applied even in most difficult site conditions. The ESM 30 C is fitted with an ELBA single-shaft compulsory mixer (0.5 cbm). The use of the scale technology of large-size mixing systems enables an hourly capacity of 30 cbm. The scope of supply includes mixer dedusting filters as well as high-quality control systems which can take on large-size mixers any time.

Since the 1970ies, Mobile Concrete Mixing Systems are integral parts of the ELBA product programme and ensure a smooth concrete supply to most different sites at home and abroad. Constant further development and incorporation of new technologies allow any customer demands and site situations to be realized.

The mobile mixing system (ELBA Supermobil) can, depending on the site personnel available and the conditions on site, be assembled within 1 – 2 days. The assembly, which is not requiring any foundations, decreases the costs for moving the system. The hourly capacity ranging from 30 cbm to 120 cbm makes the system suitable for any site. Higher capacities may be reached by solutions which can also be mounted without foundations.



Fig. 3 : ELBA Supermobil ESM 30 C

NEW:

On the open air area of the BAUMA 2010, stand 906/1, ELBA will present its novel **ELBA Large-Boom Pump EM 51/57** for the first time.

This ELBA development combines the proven philosophy of the ELBA concrete pumps with innovations as regards boom folding, control, hydraulics, and application flexibility.

The boom specially designed for this pump reaches heights of 57 m and, what matters most, offers high flexibility in all fields of application. It features up to seven joints for positioning the outlet hose on site in a slewing range of 360°, independent of the boom position. This enables the application in almost every site situation. A new type "K" stabilizer system ensures even more flexibility. Furthermore, the folding system allows excellent access for cleaning and maintenance.

Due to the application of a variety of passive sensor technologies, the control system enables fast evaluation, error diagnosis, and indication of information regarding maintenance and operation. The hydraulics was optimized in view of an economic operation and can be adjusted to various operating conditions. There has been developed an effective filter / cooling system which, together with the open hydraulic cycle, allows optimum operating conditions in almost every climatic zone.

We shall also present the **novel EM 38/42-5-D model** featuring diagonal front stabilizers and the a.-m. control and hydraulics. This proven 42 m boom with 5 arms has been realized without exceeding the admissible overall weight of 32 tons on a standard truck, which is very advantageous in view of the admission of this machine in the EU. Together with the above-mentioned economically optimized control system and hydraulics, these are optimum conditions especially for the European market.