

Masa GmbH, 56626 Andernach, Germany

In line with the times: Jasto invested in a new Masa high-performance mixer

Jasto Baustoffwerke (Jakob Stockschläder GmbH & Co. KG) is a family business in the second generation and has been a supplier of high-quality building material products for more than 70 years. In the middle of the Volcanic Eifel, in Ochtendung near Koblenz, Jasto sets standards for wall building materials, materials for gardening and landscaping and products for fireplace construction. The company is characterized by a wide range of high-quality products. Due to innovative research and development work and the high technical and optical level of the products, Jasto is a very important contact for the building materials industry; for architects and planners as well as for building contractors and developers. Masa GmbH, manufacturer and supplier of extensive machine equipment for the production of Jasto products, is not entirely unaffected by their success. Quite recently, Masa installed a new high-performance concrete mixer in Ochtendung.

Rhenish pumice - with this material Jakob Stockschläder built his business idea in 1949. At the age of 19 he founded a production company for bricks made from Rhenish pumice and gradually established himself among the brick manufacturers in the pumice and lightweight concrete industry. At the beginning of the 1970s, the great interest in modern production techniques led to an extensive, but above all, trend-setting modernization of the plant: The construction of a fully automatic production plant with curing chambers increased the company's competitiveness considerably. Since then, small and large milestones of success can be found continuously in the company's history.

One large step was the extension of the portfolio by specific products for fireplaces, including various exhaust air systems which are suitable for the use of solid fuels as well as low temperature applications. With Ralf Stockschläder, as the head of the company, Jasto started with the third product segment "Garden World" and was now in the position to supply all products for the building shell and for everything around the house in a coordinated manner, all from a single hand. They produce amongst others, garden walls, pavers, terrace slabs, formwork components, palisades, solid blocks and much more. In the company's own exhibition park in Ochtendung, the diversity of the Jasto product range can be discovered and experienced - 365 days a year.

In tune with the times

Jasto ensures consistently high-quality production facilities that meet a very high technical standard. Targeted expansions and modernizations of the plant in Ochtendung guarantees that Jasto stands up to all product areas with advanced technology on the market and manufactures with impressive dimensional accuracy and very high capacities. The Masa block making machine for the "Garden World" products, which came into operation in 2017, is running at full speed, as well as the Masa block making machine for wall building materials installed in 2014. In 2019, Jasto decided to modernize the facility. The aged concrete mixers should be supplemented by modern high-performance equipment that can easily and flexibly produce the entire range of required mixes.



New equipment for Jasto



Renovation work

**Solid and efficient:
The Masa concrete mixer PH 3000/4500**

In the discussions and negotiations with various suppliers of concrete mixers, it gradually became clear that Masa is the right partner for this task. In addition to many technical refinements, the massive and solid construction of the Masa concrete mixer also played an important role in the decision: The PH 3000/4500 consists of a lower and upper frame as well as a mixing trough with two double-wing doors that open up to the floor. With a total weight of almost 25 t, it weighs considerably more than many of its competitors. The significant increase in the steel used and the fact that the planetary gear is equipped with three external 45 kW drive motors of energy efficiency class IE3 are noticeable: The Masa mixer provides a combination of short mixing cycles with low wear and tear and a very high plant availability.



Masa PH 3000/4500

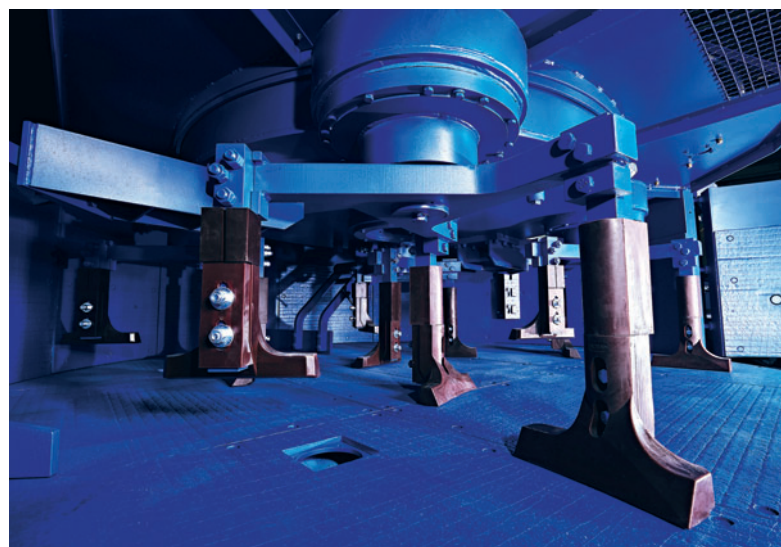
Last but not least, Jasto benefited from the facelift of the mixer technology in Masa mixers: With the PH 3000/4500, mixing is carried out by four robust mixing stars, which are arranged in different positions. Each mixing star has three streamlined mixing arms, with one mixing arm installed at a different height. With the changed shape of the mixing blades, Masa is directing attention to the rapid achievement of the desired degree of homogenization of the mix. The already achieved remarkable concrete quality of the PH mixers could be increased again with the facelift. The suitability for everyday use of the new version is also reflected in the durability of the mixing tools. With a newly developed back protection and protectors for the mixing arms, Masa presents a well thought-out solution to reduce wear and tear.

Other design features are also aimed at a clear application: To clean the side wall of the mixing trough, two circumferential scrapers are attached (one each for the upper and lower area of the side wall). The mixer has two openings for discharge. The discharge is accelerated by a mechanical scraper. The mixing trough is equipped with exchangeable, highly wear-resistant (built-up welding) bottom and side linings. The water is supplied through specially arranged nozzles, supplied via a ring line installed on the mixing trough. The installed pick-off attachment also ensures safe sampling.

The exhaust air produced during the mixing cycle is diverted through a special dedusting filter. A compressed air cleaning system integrated in the filter reduces maintenance costs and ensures a long service life.

Various connections are standardly prepared on the PH mixer for the infeed of further additives. If necessary, they can be expanded to meet customer requirements.

Due to the available space at Jasto the mix is filled-in via a dosing belt followed by an intermediate silo. The silo with a motorized flap is used to buffer the mix. A transfer chute is installed below the mixer outlet for buffering the mixture and for transferring it to the below installed concrete conveying belt.



Streamlined mixing arms

60

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Successful installation of the new mixer

implement Jasto's ideas and concepts. The investment in the Masa PH 3000/4500 concrete mixer is already paying off: Since May 2020, the Masa block making machine has been supplied with high-quality concrete from the new mixer and produces first-class wall building materials for the Jasto company.

Accept challenges

In the planning phase of the project, it became clear that replacing the existing mixer posed several challenges for both, Jasto and Masa. Extensive structural changes to the previous mixer house, which involved reconstruction work on statically load-bearing components such as walls, ceilings, supports, as well as the roof, in order to be able to successfully position the new mixer. In close collaboration with Jasto, Masa worked out various solutions for the technically sensible design of the dosing and mixing area. In the drafts, it was also taken into account that the mixing area not only houses the new Masa mixer but also two existing concrete mixers from third-party suppliers that are assigned to an older generation of mixers. Both the material feed to the mixer and the subsequent transport of the fresh concrete to the block making machine therefore had to be coordinated with various third-party suppliers. The integration of the new mixer into the existing mixing plant was carried out under demanding conditions. In the course of the project, Masa understood how to sensibly take up and



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