

Ebawe Anlagentechnik GmbH, 04838 Eilenburg, Germany

New concrete spreader for Bavarian construction company

Martin Schwarzenbeck & Co. Bauunternehmung und Betonwerk GmbH & Co KG, based in Gars am Inn in Upper Bavaria, operates a circulation plant from Ebawe Anlagentechnik dating from 2000. Recently, the ageing concrete distributor of a third-party supplier was replaced by the new eCon Drive concrete distributor with automatic operation from Ebawe. This immediately increased production capacity and made work in the concrete plant easier.

The Martin Schwarzenbeck company originally started in 1898 as a small craft business and developed over four generations into a competent company with extensive business units in the construction and concrete sector.

Prefabricated double walls with and without insulation, precast slabs with in-situ topping and solid walls are produced on the existing circulation plant. As a construction company, Schwarzenbeck has been a strong partner for more than 120 years, with numerous reference projects in the entire district of Mühldorf am Inn and beyond. The construction projects include residential buildings, industrial and production buildings, agricultural halls and much more.

The company also has an asphalt mixing plant as well as an adjacent gravel pit and, in addition to building construction, is also active in the business units of road and underground construction, ready-mix concrete, precast concrete elements such as balconies, columns, beams and much more.

The family-owned company currently employs around 95 people, practises compatibility of family and career in Bavaria and is a member of the Bavarian Family Pact. The company is managed by Otto Schwarzenbeck and his two sons, Martin and Sebastian Schwarzenbeck. The third son, Otto Schwarzenbeck junior, acts as works manager of the precast plant.

The existing circulation system from Ebawe Anlagentechnik was delivered and installed back in 2000. Schwarzenbeck uses a GTA lattice girder processing machine and a new MSR straightening and cutting machine installed in 2019, which replaced the existing machine and was supplied by Progress Maschinen & Automation, a sister company of Ebawe. Both companies belong to the Progress Group. The Ebawe circulation plant is still in operation, only the concrete spreader was to give way to the newly developed eCon Drive in 2020.



In the existing precast plant in Gars am Inn, Upper Bavaria, the old concrete spreader had to make way for the newly developed eCon Drive from Ebawe - an automatic concrete spreader with many new features.



The new concrete spreader works quickly and precisely in the production of double walls with and without insulation, precast slabs with in-situ topping and solid walls in very high quality.

Features of the new eCon Drive

The new eCon Drive stands for very good performance in terms of automation and efficient use of resources in modern precast concrete plants. It is used for the fast, even discharge of the fresh concrete onto the formwork surface of the pallet and performs the necessary tasks in a systematic manner, exactly according to the requirements of the production process. The eCon Drive receives the necessary data from a control system.

The newly developed concrete spreader works in automatic mode and is equipped with a 150 mm division of the discharge openings. In order to ensure a more precise discharge with finer contours, the machine supplied by Schwarzenbeck was supplemented by additional half flaps. This prevents over-concreting of formwork components and achieves a very high dosing accuracy.

With its modular design, the machine is also characterised by increased ease of maintenance. Wearing parts can now be changed in a very short time, reducing production downtime to a minimum.

Another highlight is the new auger and spiked roller bearing arrangement, which means that no more locking agent can be pressed into the concrete. Predictive Maintenance was implemented for the maintenance of the machine in accordance with the 4.0 Standard. The eCon Drive concrete spreader also uses the newly developed DuraScrew augers, which deliver the concrete quickly and precisely from the bucket. Due to the new material composition of the augers, wear is reduced and a considerably longer service life is achieved.



The two brothers Martin Schwarzenbeck, managing director, and Otto Schwarzenbeck junior, works manager, are extremely satisfied with the new eCon Drive. It was possible to increase production capacity by 10% while considerably simplifying the work.

The Schwarzenbeck plant site includes not only the circulation plant but also an asphalt mixing plant and an adjacent gravel pit. The company now has a large number of reference projects in residential and industrial construction in the entire district of Mühldorf am Inn and beyond.



New concrete spreader leads to follow-up order

The Schwarzenbeck company is very satisfied with the new eCon Drive concrete spreader. Especially the good cooperation from the beginning of the project to the handover to the customer was praised.

The new machine has increased production capacity by approximately 10%, so that more orders can be processed in a shorter time.

Martin Schwarzenbeck, one of the three managing directors, summarises the modernisation with a smile: "With the new top product eCon Drive we are simply too fast!" Up to now, the elements were concreted by hand with the aging concrete spreader by an employee with over 30 years of professional experience. The use of quick-setting cement and admixture meant that some pallets could be loaded twice a day. Due to the faster concreting in automatic mode, however, a gap was created with the new machine. In order to fill the gap, the Schwarzenbeck company ordered 5 new pallets from Ebawe, which will be delivered soon. This allows more pallets to be loaded twice a day, which also has a positive effect on production capacity.

The concrete spreader can now also be operated precisely by other employees after a short training period, which greatly simplifies work in the concrete plant and equips Schwarzenbeck perfectly for the future. ■

FURTHER INFORMATION



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