

Avermann Betonfertigteilterchnik GmbH & Co. KG, 49078 Osnabrück, Germany

Upgrade at Fuchs in Gladbeck

Fuchs Fertigteilwerke GmbH is one of the market-leading manufacturers of precast concrete elements for civil engineering, infrastructure and environmental technology. The Gladbeck production facility belonging to this group of companies has now been equipped with a special new concrete spreader with two interchangeable buckets made by Avermann, a leading systems manufacturer. Fuchs produces solid walls, sandwich walls and noise barriers there in great number and high quality with this upgrade to their high-performance circulation system.

FUCHS Fertigteilwerke GmbH has been developing and manufacturing precast for the areas of civil engineering, infrastructure and environmental technology for more than 70 years. The family-run company possesses five production sites in Dorsten, Gladbeck, Zeithain, Karlsruhe and Röttenbach. Numerous marketing offices in Germany, the Czech Republic and the Benelux countries ensure the necessary proximity to projects. With more than 30 product areas, Fuchs Fertigteilwerke is to be found amongst the market-leading suppliers of precast in Germany and neighbouring European countries.

The Gladbeck production facility belonging to the Fuchs group is located in the northern Ruhr area of Germany. Its modern, high-performance production sites there are national market-leaders in the areas of noise protection and

architectural concrete. The range of services at the facility includes structural precast elements, prestressed concrete and special precast elements for civil engineering and traffic roundabouts.

It was just recently fitted out with a special new concrete spreader from Avermann. The spreader now facilitates the production of solid walls, sandwich walls and noise barriers in great number and high quality on the existing circulation system.

Planning and assembly phase

The requirements for the new spreader were defined by Fuchs Fertigteilwerke together with B.T. innovation, a company located in Magdeburg. The order for the manufacture, supply, assembly and commissioning of the special new concrete spreader was awarded at the end of 2019 to Avermann Betonfertigteilterchnik GmbH & Co. KG, an internationally renowned manufacturer of machines and systems. The contracting party was convincingly persuaded by the overall package of technical solutions and total price.

The special new concrete spreader was to replace an old one. A particular challenge in assembly work was to mount the new concrete spreader without the aid of a hall crane in the



The special new concrete spreader from Avermann travels in a longitudinal direction on the existing on-site crane track girders



The assembly had to be carried out just using manual means, such as chain hoists and heavy-duty rollers, without the aid of a hall crane



The hoisting height of each of the two concreting buckets is about 1,100 mm

existing concreting chamber. Its installation was carried out exclusively using manual means, such as chain hoists and heavy-duty rollers, and with the active support of the workforce at Fuchs Fertigteilwerke.

Despite these difficult conditions, both installation and commissioning were completed within only one week and the planned time frame could be kept.

Technical features of the special new concrete spreader

The gantry for the special new concrete spreader has been equipped with a suspended trolley and travels in a longitudinal direction on the existing on-site crane track girders in the production hall. On this gantry, there is a suspended crane



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Concrete discharge and batching are carried out using eight slide gates with adjustable opening widths and a discharge roller set up in each of the buckets



Travelling with each concrete spreader bucket are a control unit cabinet and digital weight measuring system with large screen display

bridge equipped with its own propulsion to enable the spreader bucket to travel under the existing on-site supply track from the mixing system. A locking mechanism on the supply track ensures that the suspended overhead crane is positioned precisely and securely in front of the track.

The special spreader has two concreting buckets each with a capacity of 3 m³. The buckets have been fitted with running gear and a lifting device; the hoisting movement is carried out with a chain reverse system using two hydraulic cylinders.

Eight slide gates and discharge rollers for precise batching

Concrete discharge and batching are carried out using eight slide gates with adjustable opening widths and a discharge roller – a spiked roller – set up in the bucket. The bucket's

hoisting height is about 1,100 mm. Additionally travelling with each bucket are a control unit cabinet and digital weight measuring system with large screen display. All functions can be called up by radio remote control.

Since its commissioning in April 2020, the concrete spreader has been operating to the fullest satisfaction of its purchaser, Fuchs Fertigteilwerke. "The concrete spreader was professionally assembled and installed by Avermann in the Gladbeck production facility during the Easter holidays. We would like to especially thank Avermann and our maintenance team in Gladbeck for the project's smooth running and their tireless work with the upgrading measures during full ongoing operations at the precast production facility," said Hans-Robert Nollen, managing director of the Fuchs production site in Gladbeck. ■



Markus Killinger (Fuchs company family, left) supervised the investment on site. At the Gladbeck production facility (from l. to r.), Frank Keller, Dieter Kübelbäck, Robert Nollen and Köksal Türkmen are pleased with the upgraded production possibilities

FURTHER INFORMATION



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