

PERI sells first 3D construction printer

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- Röser GmbH opts for 3D construction printer from PERI
- Successful conclusion to resolute development work of the past few years
- Printing technology shows huge potential for a wide range of construction applications

PERI GmbH, one of the world's leading suppliers of formwork and scaffold systems, has been heavily involved in 3D construction printing technology for several years now. Back in 2018, the family-owned company invested in Danish company COBOD, a technological leader in 3D construction printers. Together with the specialists from COBOD, PERI has been working hard to refine the technology and open up new markets ever since.

The resolute development work of the past few years is now beginning to bear fruit: Röser GmbH has placed an order with PERI for a 3D construction printer to manufacture prefabricated concrete elements at the company's site in Laupheim. The BOD2 printer will be delivered in the next few days and put into operation on site by PERI engineers working alongside the team from Röser.

Röser GmbH intends to use the printer to produce a wide range of prefabricated concrete elements at the new company premises in Laupheim. At first, the company is planning to produce concrete

components with unrestricted scope for design for the open space planning sector, special-purpose shapes for road construction and civil engineering, creative components for building construction and also stylish individual concrete parts. Given the long-standing experience of Röser GmbH in the concrete construction sector, this new 3D construction printer is a long-term, innovative investment for the future that aims to minimise the planning restrictions associated with concrete components, thus enabling the company to become a pioneer in the market.

The BOD2 construction printer supplied by PERI is a "gantry printer", which means that the print head moves about three axes on a securely installed metallic frame. The benefit: the printer can be moved along its frame to any position in the structure. This eliminates the need for frequent relocation and recurrent calibration. Only two operators are required to run the printer. The print head and the print results are monitored by a camera.

With a printing speed of 1 m/s, the BOD2 is currently the fastest 3D construction printer available on the market. The BOD2 only takes around 5 minutes to complete one square metre of a double-skin wall.

“At PERI, we are convinced that 3D construction printing offers great potential,” says Thomas Imbacher, Managing Director Innovation & Marketing at PERI Group. “Right now, a number of universities and companies are working on developing and industrialising this technology for various market segments such as, for example, residential construction. The construction printing team at PERI is working non-stop on this topic and we are confident that we will be able to report more success stories before long. Selling the first 3D construction printer to our partner and client Röser GmbH is an important first step for PERI. This is the first step of many.”

Maximilian Röser, Managing Partner of Röser GmbH, says: “We have monitored the development and potential of 3D construction printers in various industries and we are convinced that they will also have a huge role to play in the precast concrete industry over the long term. Röser GmbH has always been a highly innovative company that is open to new ideas. For that reason, we are embarking on this venture of further developing and promoting 3D construction printing technology with conviction, with PERI as our partner. We hope that the business relationship between PERI and Röser GmbH proves to be a long and fruitful one.”

Source: PERI GmbH