

**Contact:** Putzmeister Holding GmbH  
Marketing department  
Max-Eyth-Str. 10  
D-72631 Aichtal

Tel.: +49 7127 599-311  
Fax: +49 7127 599-140  
e-mail: [marketing@putzmeister.com](mailto:marketing@putzmeister.com)

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## **INSTATIQ, the Putzmeister 3D printer for solid construction at bauma 2025**

Printing instead of building with INSTATIQ – the future has (long) begun

**Aichtal, February 2025 – If you want to get a precise idea of the future of construction, you should come to bauma 2025 in Munich: From Monday, 7 April to Sunday, 13 April, Putzmeister will be presenting the INSTATIQ P1 mobile 3D printer in the open-air area at FM.711/3. The machine prints concrete directly on the construction site, without any formwork. Thanks to a clever combination of mobile concrete pump and robot technology, walls can be built quickly, sustainably and precisely.**

At the world's largest construction trade fair in Munich, Putzmeister is presenting the INSTATIQ P1 3D printer, among numerous other innovations.

### **Redefining processes on construction sites**

A major advantage of printing technology is the end-to-end digitalisation of planning and construction processes. The planned components are extracted from digital building models and then translated into individual print layers. The print path and print speed are determined by various parameters, considering the material. This data is transferred into a machine code that is read into the system. The INSTATIQ P1 then prints the building layer by layer, with the system processing the plan fully automatically.

INSTATIQ: independent 3D printing innovation with Putzmeister as a strong partner

INSTATIQ was spun out of the Putzmeister Group as an independent company to focus entirely on the development and expansion of 3D concrete printing. This strategic decision underlines Putzmeister's confidence in 3D printing as a sustainable business model. As an independent unit, INSTATIQ combines the innovative strength of an agile start-up with Putzmeister's decades of experience and technical excellence.

Profitability and sustainability are not contradictory

INSTATIQ relies on an electric and low-emission technology – and the 3D printer itself uses standard concrete with a grain size of 10 mm. Optimised concrete formulations with minimal CO<sub>2</sub> emissions and this type of resource-saving processing enable a future-proof, sustainable construction method. At the same time, 3D concrete printing increases cost-effectiveness thanks to a faster and more cost-effective construction method.

Automated processes minimise the need for personnel and increase efficiency. Without the need for complex formwork or lengthy set-up, the mobile 3D printer is ready for operation in less than 90 minutes and creates solid, load-bearing walls layer by layer – economically, precisely and in an environmentally friendly manner.

**INSTATIQ P1 at a glance:**

- Printing applications: vertical walls in solid construction
- Print material: open to 10 mm grain
- Construction and dismantling time: 90 min
- Print width / print height: up to 30 cm / up to 10 cm
- Print speed: 10 cm/s
- Print area: up to 26 m range
- Power supply: electric with 125 A or via the power take-off
- Max. gross weight: 32 t
- Outrigger width with full support: 9.60 m / with narrow support 5.90 m

INSTATIQ not only saves construction time and costs, but also protects the environment – a win-win-win situation for all project managers, clients and our planet.