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## **Innovations for the precast concrete industry: Precast Automation 4.0 at bauma 2025**

### **Putzmeister Precast – modular solutions for the automation of pumping processes**

**Aichtal, February 2025 – As in previous years, Putzmeister has been focusing intensively on electrified and automated solutions for precast concrete plants in order to further optimise efficiency and process reliability. These are modular solutions that are so flexible that they can be precisely tailored to customer requirements. At bauma 2025 in Munich – from Monday, 7 April to Sunday, 13 April – the concrete delivery specialist will be presenting these innovations for precast concrete production in Hall B6.**

Whether in tunnel or industrial construction, for wind power, house or bridge construction – under the term Precast Automation 4.0, Putzmeister presents solutions for the production of precast parts. These systems can be used to process a wide variety of pumpable concretes – largely automated. In view of the impending shortage of skilled workers, the range is all the more interesting: the future-oriented, resource-saving, modular and efficient systems require minimal manpower, but deliver a high output in a short time.

#### **Economically sensible solutions for almost every challenge**

The Precast systems can be individually assembled from the extensive Putzmeister portfolio: Various stationary – including battery-powered – concrete pumps (BSA), delivery lines and concrete buffer storage are available. There is also a choice between stationary hydraulic distribution booms and rotary distributors, systems for filling battery moulds via the formwork filling port or systems in which the pump delivers directly to the conventional concrete distributor.

#### **Profitability is the top priority**

Putzmeister systems can be retrofitted easily at a manageable cost – without major conversions to existing systems. By placing the concrete using placing booms, operating resources such as overhead cranes are freed up for other tasks. At the same time, productivity increases because the concrete is placed faster than with conventional concrete placement processes. The space-saving

installation of the delivery line enables even better use of the production area and noticeably higher concrete utilisation.

### **Improved quality of the precast elements**

The self-contained system allows a continuous flow of concrete and homogenisation of the concrete batches in the buffer storage – this prevents the concrete from segregating. Even complex or very different moulds can be filled without interruption, thus avoiding ‘cold joints’. Minimised drop heights also result in more homogeneous surfaces with a significantly reduced number of shrinkage cavities.

### **Another plus: improved occupational safety**

The concrete is transported in a closed system, which considerably reduces the number of on-site transport movements with all their potential sources of danger. This also keeps emissions – exhaust gases and noise – within very narrow limits.

### **Reduced effort means fewer personnel required**

Automated processes save time – and significantly reduce the need for skilled workers. With Precast Automation 4.0, pumping processes can be carried out with minimal manpower, mainly through intuitive control; manual activities are virtually eliminated. In addition, automated cleaning saves an enormous amount of time across the entire system: from the buffer storage to the pump and delivery lines to the distributor.

### **Work with professionals from the outset**

Anyone who wants to switch to automation or optimise existing systems will receive support from a specialised project manager at Putzmeister right from the start. This support begins with a detailed needs analysis on site and ranges from process consulting to plant planning and pumpability analyses to suggestions for concrete optimisation. Customers can also rely on Putzmeister when it comes to commissioning. Operating personnel receive intensive on-site training so that production runs as smoothly as possible from day one. However, should a problem arise, a rapid on-site service is available. Reliable spare parts supply guarantees high availability.

The result is a highly productive, cost-effective system that is precisely tailored to the customer's needs – and thus makes all the difference in modern precast production.

### **About the Putzmeister Group**

The Putzmeister Group develops and produces high-quality machines in the fields of concrete delivery, truck-mounted concrete pumps, stationary concrete pumps, placing booms and accessories, plant engineering, pipe delivery of industrial thick materials, concrete spraying and transport in tunnels and underground, mortar machines, plastering machines, screed delivery, injection and special applications. Its markets are the construction industry, mining and tunnelling, large-scale industrial projects, power plants and sewage treatment plants, as well as waste incineration plants worldwide.

The company is based in Aichtal, Germany. With over 4,000 employees, the company generated a turnover of 1 billion euros in the 2023 financial year.