

Media Information
27 March 2025

BMW Group Plant Debrecen enters the finish straight: Heartbeat of the plant comes to life with ramp-up of assembly

- iFACTORY's full potential: new site in Hungary adopts many innovations from the global production network
- Forerunner among the BMW Group plants with just-in-sequence delivery to the production line
- Efficient, ergonomic assembly processes thanks to intense modularisation, fewer different connecting elements, a simplified wiring harness and innovative cockpit assembly
- Series production will start in late 2025 with the first model of the Neue Klasse: the new BMW iX3

Debrecen. The future BMW Group plant in the Hungarian city of Debrecen is on the finish straight as the ramp-up of the assembly line sees the heart of the plant come to life. This is the beating heart of all the technologies in the plant, and also where the most employees work. The assembly launch thus marks the reaching of another milestone.

"Our highly efficient and ergonomic assembly line immediately started running without any issues," said Hans-Peter Kemser, Managing Director BMW Group Plant Debrecen. "We achieved this thanks to virtual planning and tests, as well as the outstanding collaboration between our new, highly motivated employees in Debrecen and our experts within the BMW Group's global production network."

In assembly, the individual components and systems are installed in the painted body – at the end of the process, a car ready to drive rolls off the production line. The innovative vehicle architecture of the Neue Klasse opens totally new possibilities with regard to assembly: greater efficiency thanks to modularisation, fewer different connecting elements, and a simplified installation of the wiring harness. An innovative cockpit assembly also accelerates the process.

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The BMW Group Plant Debrecen is already producing test vehicles for the first model of the Neue Klasse: the new BMW iX3.* Thus, the new plant is gradually ramping up for series production.

Neue Klasse allows simple, fast assembly process

A number of features of the Neue Klasse are new territory for everyone. Unlike in previous models, the cable harness is divided into multiple parts, making it easier and more ergonomic to install. The zonal wiring harness architecture requires 600 fewer metres of wiring and weighs 30 percent less than the previous generation.

On the other hand, some components are modularised when one module is formed from many small individual parts. The variation of connecting elements has also been radically reduced for the Neue Klasse. This in turn reduces the number of different plugs, screws and clips. All of this makes assembly significantly more simple.

Furthermore, with the Neue Klasse, a wide range of quality checks can be performed digitally whilst still on the production line. This procedure will also be implemented at other sites after its initial use in Debrecen. The next point of use will be the home plant in Munich, which will produce the sedan model of the Neue Klasse as of 2026.

The innovative cockpit assembly accelerates processes at Plant Debrecen. It is one of the most compact in the BMW Group's production network, yet still allows full flexibility and variety. As at Plant Lydia in China, cockpit pre-assembly is located right next to the main line. Once the cockpit has been pre-assembled, it is then installed directly in the vehicle just a few metres ahead.

Assembly in Debrecen adopts innovations from existing plants

When planning the new production site in Hungary, the BMW Group used a completely virtual design process. In line with the principles of the BMW iFACTORY, the tried-and-tested standards and high-tech solutions from existing plants were referred to many times. For example, many ideas and proven structures from Plant Lydia in China and Plant Leipzig can be found in the assembly in Debrecen.

Further development of the finger structure from Leipzig

These structures include the so-called finger structure, or comb structure, which the BMW Group developed specifically for Plant Leipzig, which opened in 2005. This structure allows supply parts and preassembled modules to be transported directly to the assembly lines. A record proportion of parts, up to 80%, can be delivered directly in Debrecen, as the fingers will enjoy logistics supply from both sides for the first time. This is the highest ratio in the BMW Group's production network. The finger structure allows subsequent extension and the integration of further assembly steps – flexibility is a characteristic of production at the BMW Group.

Production processes, as at Plant Lydia in China

Plant Lydia in China was also an inspiration for many structures and processes in the assembly. The plant opened in 2022 and was the first BMW Group site to be completely planned and simulated in the virtual world from the outset. The shop floor for the assembly line and complete conveyor system in Debrecen are set up identically. Therefore, the technology was available quickly and had already been tried and tested, simplifying the commissioning of a completely new production line.

Series production of the new BMW iX3 set to start at the BMW Group Plant Debrecen in late 2025. The Hungarian plant has been designed specifically for the production of all-electric vehicles. As with the start of any new model or new plant, production capacities are increased gradually after start of production. The site in Debrecen will be the first automobile plant in the BMW Group to operate entirely without the use of fossil fuels.

*Since this is a pre-production model, consumption data for the new BMW iX3 is not available at this time.

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The BMW Group

With its four brands BMW, MINI, Rolls-Royce and BMW Motorrad, the BMW Group is the world's leading premium manufacturer of automobiles and motorcycles and also provides premium financial services. The BMW Group production network comprises over 30 production sites worldwide; the company has a global sales network in more than 140 countries.

In 2024, the BMW Group sold over 2.45 million passenger vehicles and more than 210,000 motorcycles worldwide. The profit before tax in the financial year 2024 was € 11.0 billion on revenues amounting to € 142.4 billion. As of 31 December 2024, the BMW Group had a workforce of 159,104 employees.

The economic success of the BMW Group has always been based on long-term thinking and responsible action. Sustainability is a key element of the BMW Group's corporate strategy and covers all products from the supply chain and production to the end of their useful life.

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