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World premiere: DMU 65 H monoBLOCK 2. Generation

New standard in 5-axis horizontal machining

Munich. Horizontal machining centers impress with their performance, stability, and process reliability—reasons for the continued popularity of the DMU H series from DMG MORI. The DMU 65 H monoBLOCK 2. Generation will now continue the success story of its predecessor. The machine tool manufacturer will present the enhanced machine at its Open House in Pfronten. The powerful, efficient, and universal 5-axis horizontal machining center creates all the conditions necessary for successful Machining Transformation (MX). Process integration, flexible automation solutions, and digital tools ensure efficient and resource-saving production. This benefits demanding industries such as die & mold, aviation & space, and general mechanical engineering.

Stable, horizontal design for long-term accuracy and process reliability

The rigid cast iron machine bed with 3-point support and three guides in the X-axis provides the DMU 65 H monoBLOCK 2. Generation with an optimal basis for powerful heavy-duty machining. Together with the thermosymmetrical design and extensive cooling measures, it achieves a continuous accuracy of up to 5 µm even in the standard version. The robust moving column design with low moving masses ensures high dynamics with acceleration of up to 8.5 m/s². The large working area allows for a wide range of machining operations. The application spectrum includes workpieces on high clamping towers, complex 5-axis geometries, and reliable deep hole drilling. The E-Pallet further supports the variety of machining operations. The smart interface provides power for fully electric clamping devices and sensors as well as hydraulics and pneumatics. This revolutionizes the classic machine table and enables the use of smart clamping devices which enable the use of intelligent software. Due to the horizontal design, machining benefits from optimal chip removal and good heat dissipation, resulting in maximum process reliability.

Economical thanks to integrated processes and digitized manufacturing

The double-sided swivel rotary table is designed for components up to ø 840 x 770 mm and 600 kg and allows flexible machining of workpieces – up to 5-in-1 process integration of milling, turning, grinding, measuring, and gear cutting. The wheel magazine has space for up to 453 tools with a maximum length of 650 mm, a diameter of ø 280 mm, and a mass of 22 kg. The spindle range offers variants with up to 30,000 rpm as well as options for powerful machining with 288 Nm and HSK-A 100 tool holders.

The high connectivity of the DMU 65 H monoBLOCK 2. Generation and CELOS X control platform—available with Siemens or HEIDENHAIN—pave the way for end-to-end digitization of production. The app-based, intuitive operation and exclusive DMG MORI technology cycles also make handling easier.

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Productive and efficient thanks to a wide range of automation options

A key objective in future-proof manufacturing is to achieve the best possible machine utilization—even for automated operation. DMG MORI offers a wide range of automation solutions for the DMU 65 H monoBLOCK 2. Generation. The alternatives range from modular PH Cell pallet handling to interlinking in linear pallet pools. This solution benefits from the narrow design with a width of 2.6 m. Operation with driverless transport systems from the AMR series also enables a fully autonomous shop floor. Optimal machine utilization in combination with low moving masses and extensive GREENMODE measures also ensures that the DMU 65 H monoBLOCK 2. Generation meets the requirements for energy-efficient and sustainable manufacturing.

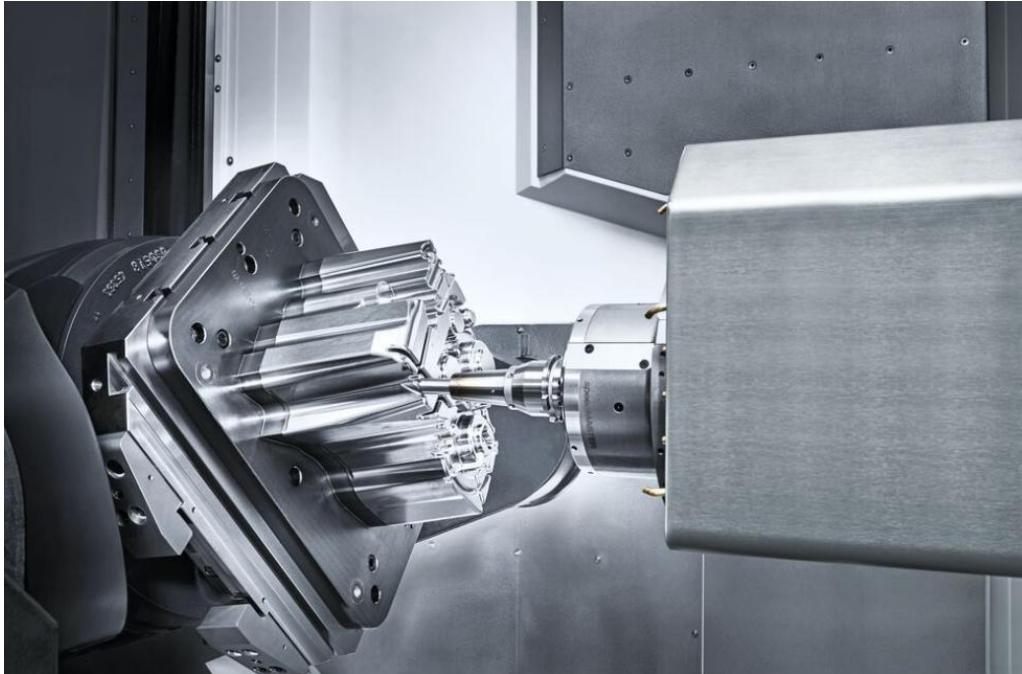


With intelligent process integration, flexible automation solutions, and high connectivity for digitized production, the DMU 65 H monoBLOCK 2. Generation enables economical and efficient manufacturing.

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The large workspace allows for a wide variety of processing tasks.

Company Profile // DMG MORI

DMG MORI is a leading global manufacturer of high-precision machine tools and is represented in 44 countries – with 124 sales and service locations, including 17 production plants. In the “Global One Company”, more than 13,500 employees are driving the development of holistic solutions in the manufacturing industry. Under the guiding principle of Machining Transformation (MX), DMG MORI combines four pillars for the efficient, sustainable production of the future: Process Integration, Automation, Digital Transformation (DX) and Green Transformation (GX).

DMG MORI stands for innovation, quality and precision. Our portfolio covers sustainable manufacturing solutions based on the technologies Turning, Milling, Grinding, Boring as well as Ultrasonic, Lasertec and Additive Manufacturing. With technology integration, end-to-end automation and digitization solutions we make it possible to increase productivity and resource efficiency at the same time.

At our production sites worldwide, we implement holistic turnkey solutions for the main sectors of aviation & space, automotive & e-mobility, die & mold, medical, and semiconductor. With the DMG MORI Qualified Products (DMQP) partner program, we offer perfectly matched peripheral products from a single source. Our customer-oriented services cover the entire life cycle of a machine tool – including training, repair, maintenance and spare parts service.

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