

Global Product Communications
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DMF 600|11

XXL machining with up to 6,000 mm travel

Munich. DMG MORI's DMF moving column machines stand for maximum efficiency in the 5-axis precision machining of long structural components and other complex workpieces. With the new DMF 600|11, the series is expanding to include a model for XXL machining. Components measuring up to 6,000 x 1,100 x 1,050 mm and weighing up to 12,000 kg can be accommodated in the machining compartment. An optional partition wall divides this into two areas measuring 3,600 x 1,100 x 1,050 mm. Independent configurations with an A axis or C axis are possible in each area. The rotary tables can be loaded with up to 2,000 kg and enable 5-axis machining of workpieces with a diameter of up to 1,400 mm and a height of 1,050 mm. The version with a partition wall allows a second job to be set up during the main processing time. In times of increasing component diversity and single-part production, for example in the semiconductor or die & mold sectors, this ensures high flexibility and optimal utilization of the DMF 600|11.

Precise and powerful machining for every application

The DMF 600|11 achieves high accuracy and surface quality thanks to its highly stable design. The cast machine bed, three linear guides on the X-axis—which are located outside the machining compartment—and a symmetrical structure ensure a consistently rigid construction across the entire machining compartment. Extensive cooling measures in the spindle, the drives, the B axis, and the ball screws ensure long-term thermal stability. The available spindles address different applications.

speedMASTER spindles with speeds ranging from 15,000 rpm to 20,000 rpm are used for precision milling, while powerMASTER spindles with a torque of up to 430 Nm enable heavy-duty machining of demanding materials. As standard, the DMF 600|11 achieves rapid traverse speeds of 42 m/min and acceleration of 4 m/s² in all axes. The optionally available Dynamic Package increases these values to 80 m/min in the X-axis and 60 m/min in the Y- and Z-axes, as well as acceleration of 6 m/s².

Up to 300 tools and optimized tool changer

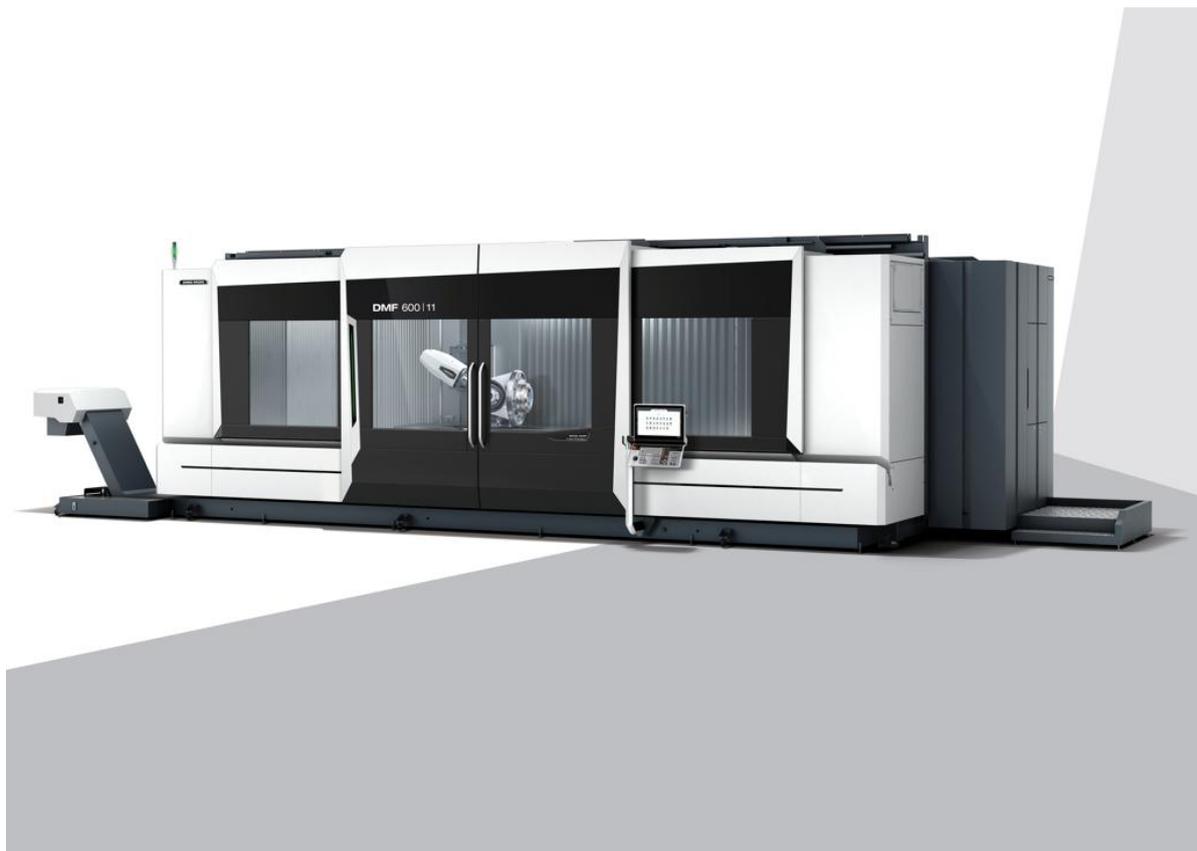
The tool magazine of the DMF 600|11 offers space for 40 ISO40 tools up to 400 mm in length (ISO50: 450 mm / HSK100: 540 mm) as standard. The magazine can be expanded in the background to up to 300 tool positions, which minimizes setup times when there is a high degree of component variation. As with the smaller sister models, tool changes in the DMF 600|11 are also carried out behind the table, thus ruling out collisions.

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Future-proof manufacturing with process integration and automation

In the 5-axis version, the DMF 600|11 offers everything you need for efficient complete machining of demanding workpieces. The possibilities range from a milling-turning table to the process integration of gear cutting, grinding, fine drilling, and deep hole drilling. Machining in a single clamping frees up capacity on other machines, reduces throughput times, and ensures consistent quality. An automation interface further increases the productivity of the DMF 600|11. Here, for example, the MATRIS system implements autonomous manufacturing processes around the clock. Driverless transport systems from the AMR series also supply the machine with material and tools. This type of automated manufacturing increases productivity and reduces the workload for skilled workers, who can then concentrate on preparing new orders and quality control.



With a travel distance of 6,000 mm on the X-axis, the DMF 600|11 sets new standards in 5-axis precision machining of structural components and other demanding components.

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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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