DMG MORI

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Contact Technical Press:
Eva Manzenreiter
DMG MORI Global Marketing GmbH
eva.manzenreiter@dmgmori.com
dmgmori.com

World Premiere: DMV 60 | DMV 110

3-axis machining redefined

Munich. In the new DMV series, DMG MORI combines the strengths of earlier 3-axis machining centers with pioneering innovations that meet the increasing requirements in manufacturing. The development of the DMV 60 and DMV 110 has thus been closely aligned with the Machining Transformation (MX). Based on the four pillars of Process Integration, Automation, Digital Transformation (DX) and Green Transformation (GX), DMG MORI is shaping the future of manufacturing with this concept. As 3-axis machines, the two DMV models occupy an important position in numerous industries – wherever high-performance machining of precise workpieces with simple geometries is required. In this way, they are proving to be a valuable building block in a competitive production environment including die & mold, medical, automotive and aerospace sectors, among others. In these industrial fields productive machining of the most common materials, from aluminum and stainless steel to titanium alloys, is crucial.

Stable basis for efficient machining of precise workpieces

The optimized monolithic machine bed of the DMV machines, solid cast parts and roller guides in all axes ensure high rigidity during machining. The 1,400 x 600 mm table can be loaded with up to 1,700 kg in the case of the larger model (DMV 60: 900 x 600 mm, 1,000 kg), meaning that the DMV models are designed for a very wide range of components. The travel paths of the DMV 110 are 1,100 x 600 x 510 (DMV 60: 600 x 600 x 510). The machine is available with the full range of spindles: starting from a 12,000 rpm spindle, through a 15,000 rpm high-torque spindle, ending at a speedMASTER with 20,000 rpm – all of them with BIG PLUS interface. A combination of powerful spindle with high dynamic and rapid traverse of 42 m/min results in great cutting performance. Direct drive transmission in the X and Y axes and direct measuring systems in the linear axes ensure high positioning accuracy, which in turn increases machining accuracy. The same applies to the optimum temperature compensation, which ensures high thermal stability.

Reduced non-productive times and autonomous production

Both machines are available in standard with 30-pocket tool magazine which capacity can be extended to 60 or even 120 stations as option. The large number of tools enables the use of sister tools or loading for a high variety of parts, which contributes to the high flexibility of the DMV machining centers and can significantly reduce non-productive times. On top of that, the magazine can be set up parallelly through the side loading station without interrupting the machining process. In addition, various automation options also support the high level of flexibility in autonomous production, making it easy to integrate the DMV machines into the Machining Transformation (MX). The range includes the Robo2Go Milling, the universal PH 150 pallet handling system and the modular PH Cell 300.

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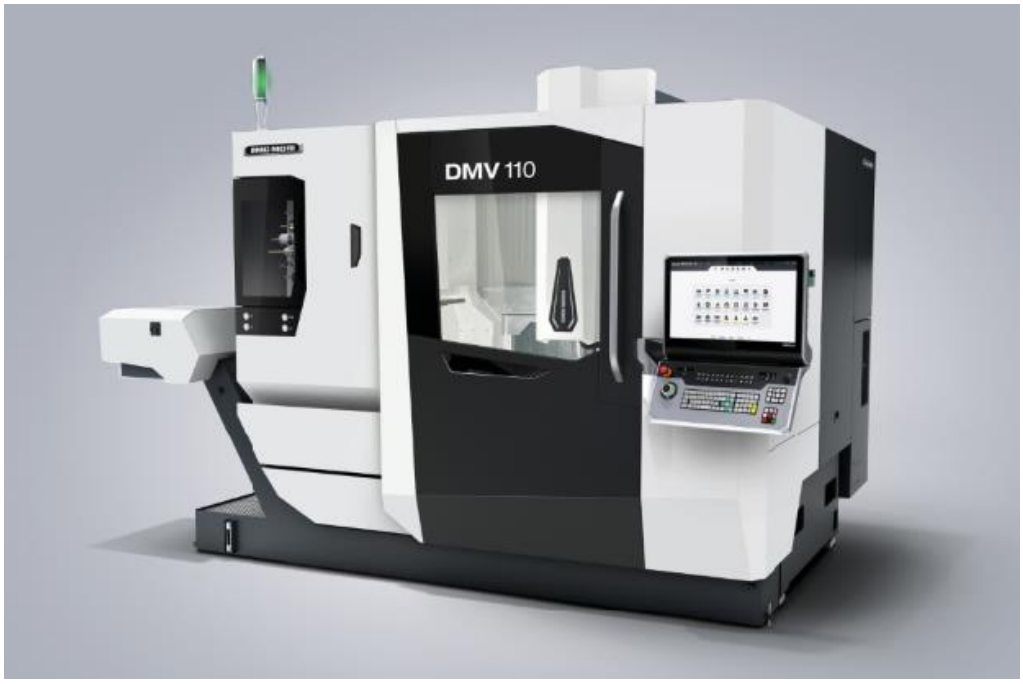
Digital transformation with CELOS X and energy-efficient operation

On the control side, the DMV models are equipped with CELOS X on the intuitively operated ERGOline X panel. Either a SINUMERIK 840D or a HEIDENHAIN TNC 7 support programming with graphical display. CELOX X also allows seamless integration into company networks, which further advances the digital transformation. With a view to the green transformation, the energy consumption of the DMV machines has been reduced by ten percent compared to the predecessor. The resource-saving operation also has a positive impact on profitability.



The travel paths of the DMV 110 are 1,100 x 600 x 510 mm, and the table can be loaded with workpieces weighing up to 1,700 kg.

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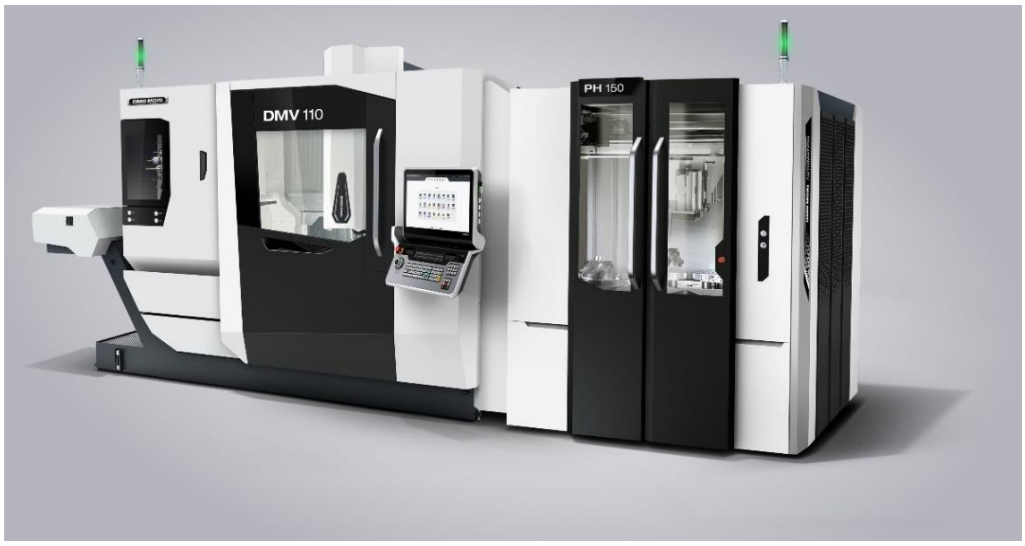
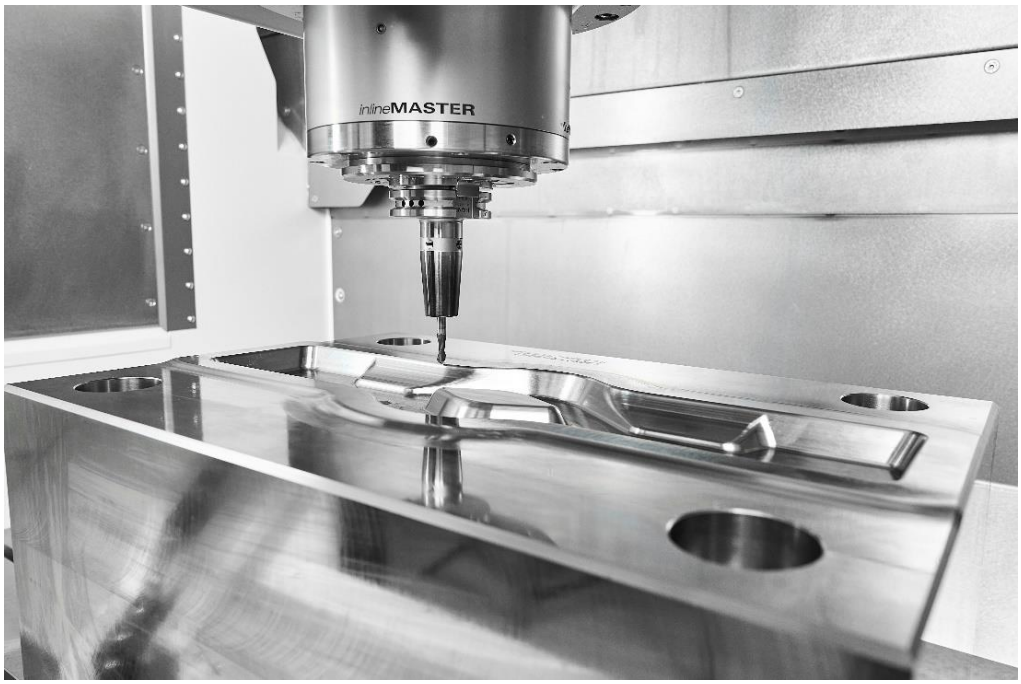


Both the DMV 60 and the DMV 110 can be flexibly automated, here with PH 150 pallet handling.



The 3-axis DMV machines allow flexible, high-performance machining of precision workpieces in industries such as die & mold, general mechanical engineering, automotive and aerospace.

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Company Profile // DMG MORI

DMG MORI is a leading global manufacturer of high-precision machine tools and is represented in 43 countries – with 116 sales and service locations, including 17 production plants. In the “Global One Company”, more than 13,000 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 realize holistic turnkey solutions for the main sectors of aerospace, automotive, 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.

DMG MORI Global Marketing GmbH | Walter-Gropius-Str. 7 | 80807 Munich
Managing Director: Irene Bader
Commercial register no.: HRB 213234, Local Court Stuttgart