

Global Product Communications
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World premiere: DMV 160

Precise vertical milling up to 1,600 mm in length

Munich. With the new DMV 160, DMG MORI is expanding its series for productive and high-precision 3-axis vertical machining. Its stable design, a rigid table with a loading weight of 2,200 kg and travels of 1,600 x 700 x 550 mm are primarily aimed at customers who also need to mill or drill large components quickly and precisely. Like its smaller sister models, the DMV 160 is also geared towards the requirements of modern production in demanding industries such as Die & Mold, Automotive or Aerospace. A tool magazine with up to 120 pockets (SK40), the standard version has 30, and compatibility with pallet handling systems such as the PH Cell 300 guarantee cost-effective production with short non-productive times.

Robust design for maximum dynamics

The DMV 160 is based on a monolithic machine frame with solid cast parts and roller guideways in all axes. This means the machine remains stable and precise even in case of very demanding applications. The feed rate of 42 m/min secures high dynamic and reduced cycle times. The available spindles ensure high-performance machining: starting from inlineMASTER 15,000 rpm, through speedMASTER 15.000 rpm HT (High Torque) & 20.000 rpm, ending at powerMASTER which has a torque of 430 Nm for heavy-duty machining of titanium alloys or stainless steel - all with BIG PLUS interface and 36 months warranty. Thanks to direct drives in all axes, direct path measuring systems and a positioning accuracy of 4 µm, the DMV 160 delivers consistently precise results. An active cooling system for selected components ensures thermal stability even with long running times.

Machining Transformation (MX): Networked, automated and future-proof

DMG MORI has developed the DMV 160 with the pillars of Machining Transformation (MX) in mind to support any future-proof production. CELOS X on the intuitively operated, 24" ERGOline X panel creates the perfect basis for networked and digitalized production. It allows seamless integration into company networks, which further advances the Digital Transformation. Programming with graphical display is supported by either a Sinumerik ONE or a HEIDENHAIN TNC 7. DMG MORI implements autonomous production by connecting the pallet handling systems PH 150, PH Cell 300 or PH Cell Twin in order to connect a second machining center. Workpiece handling is performed by a Robo2Go Milling if required. The DMV 160 can also be easily integrated into a shop floor with driverless transport systems such as the PH-AMR 750. Thanks to its energy-saving and resource-conserving operation, the DMV 160 also promotes the Green Transformation (GX) towards more sustainable production.

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With travels of 1,600 x 700 x 550 mm, the DMV 160 from DMG MORI enables vertical milling and drilling of large components for Die & Mold, Automotive and other demanding industries.

Company Profile // DMG MORI

DMG MORI is a leading global manufacturer of high-precision machine tools and is represented in 45 countries with 128 locations, including 18 production plants. In the "Global One Company", around 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, drilling 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 Aviation & Space, Data & Semiconductor, Die & Mold, Mobility, and Medical. With the DMG MORI Qualified Products (DMQP) partner program, we offer perfectly matched peripheral products from a single source. Our customer-oriented offerings cover the entire life cycle of a machine tool – including training, repair, maintenance and spare parts service.

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