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World premiere: CTX 750|1250

Future-proof 6-sided complete machining

Munich. The Machining Transformation (MX), with which DMG MORI is shaping the future of machine tool manufacturing, has a direct influence on product development. This is demonstrated by the sixth generation of CTX universal turning machines. As the latest addition to the series, the CTX 750|1250 sets new standards in terms of performance, precision and energy efficiency. On an area of just 11,7 m², it offers sufficient space for \varnothing 700 x 1,290 mm workpieces. The combination of left and right spindles, the optional Y-axis with +/- 85 mm travel and the driven tools with up to 6,000 rpm ensures productive 6-sided complete machining of demanding geometries with maximum precision using integrated processes. This is because the highly rigid machine concept of the CTX 750|1250, up to 55 mm wide linear guides, integrated cooling measures and direct measuring systems from Magnescale guarantee positioning accuracies of 6 μ m and 12".

Powerful spindles and turrets for demanding applications

The spindles of the CTX 750|1250 play a major role in high-performance machining. The left-hand ISM 127 spindle with 2,500 rpm and up to 1,975 Nm torque is contrasted by an ISM 80 spindle. It achieves 4,000 rpm and 360 Nm. The spindle bore is \varnothing 127 mm, for bar \varnothing 125 mm. An ISM 102 spindle for 6-side heavy-duty machining with a torque of up to 770 Nm is optionally available on the right-hand side. The VDI-50 turret with twelve tool positions, used as standard, enables the milling operations required for 6-sided complete machining. The driven tools reach 4,000 rpm and 48 Nm. Alternatively, a high-speed turret with 66 Nm and a direct-drive turret with 86 Nm are available for speeds up to 6,000 rpm.

Energy-efficient and resource-saving universal turning

Sustainable production requires the use of both economical and sustainable solutions, with which DMG MORI is driving forward the Green Transformation (GX). In the case of the CTX 750|1250, for example, low-friction guides and a low-consumption lubrication system are used. The machine has inverter technology for the hydraulic unit and frequency-controlled coolant pumps. The universal lathe also works with advanced synchronous motor technology, motor brakes with energy recovery and 3-phase motors of class IE3. It has energy-efficient cooling of the control cabinet and linear scales without pressurization and is equipped with the DMG MORI auto-shutdown function as standard. These features are part of the GREENMODE, which reduces energy consumption by up to ten percent.

Comfortable control options and autonomous operation

Integrated processes and energy-efficient machine utilization are just as much a part of the overall concept of the CTX 750|1250 as modern control options and automated production. The machine is optionally equipped with CELOS X on a SINUMERIK ONE or with an alternative MAPPS Fanuc. Both variants allow intuitive programming and fast machine set-up. DMG MORI Technology Cycles,

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such as gearSKIVING and gearHOBGING, facilitate the programming of demanding processes and expand the production technology possibilities of the CTX 750|1250. Production gains additional productivity through autonomous operation in three shifts. A wide range of automation solutions are available to users – from bar feeders and Robo2Go Max to the MATRIS system, which can be used to create complex production cells.

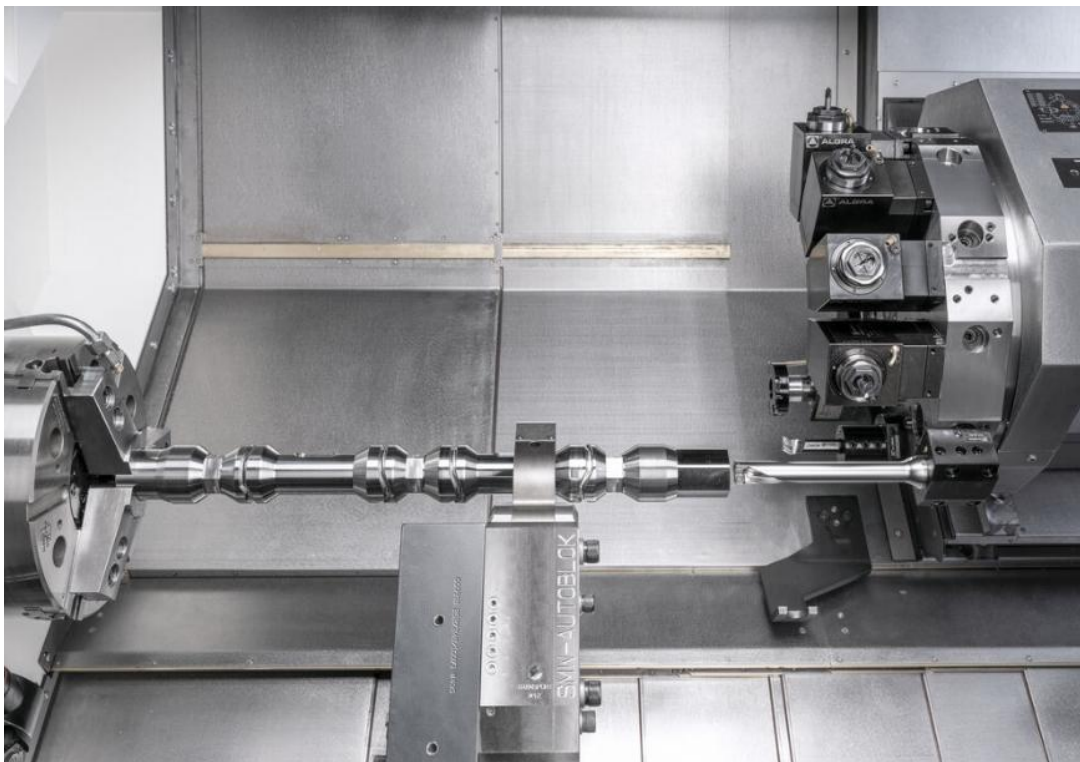
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The CTX 750|1250 offers sufficient space for \varnothing 700 x 1,290 mm workpieces on an area of just 11.7 m².

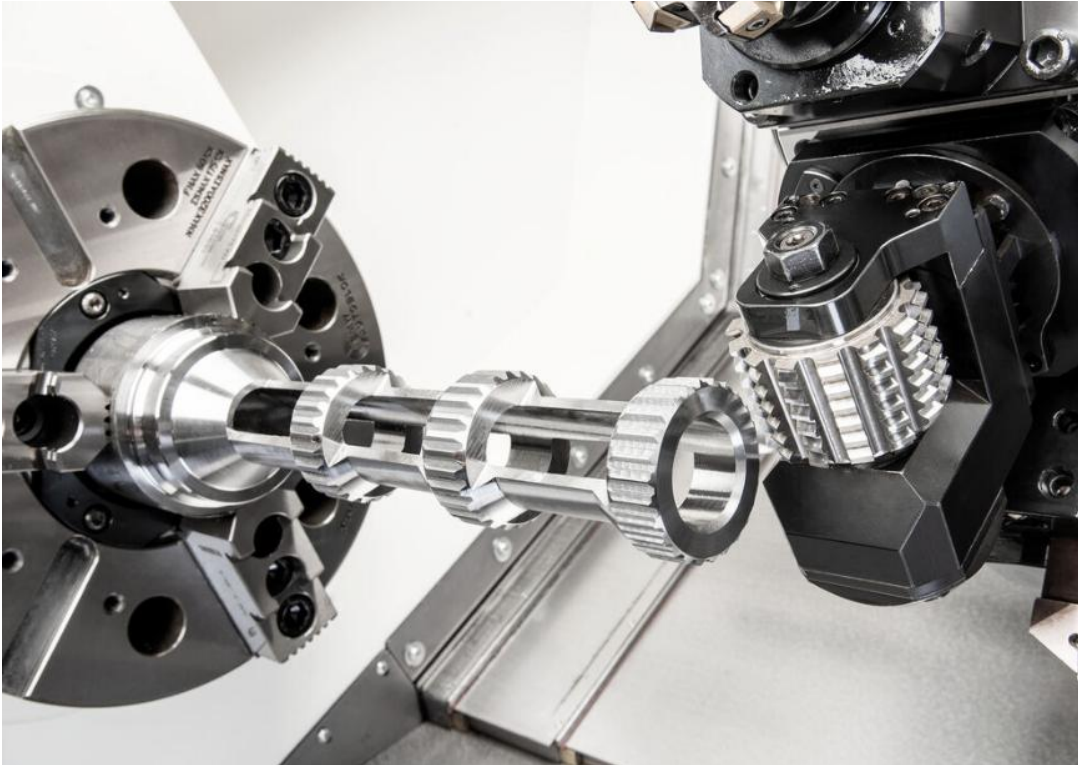


A VDI-50 turret with twelve tool positions enables a variety of milling operations for 6-sided complete machining.

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With the help of technology cycles, additional machining processes, such as gearSKIVING or gearHOBGING, can be integrated on the CTX 750|1250.

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.

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