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World Premiere: NLX 2500|700 2. Generation

All new Next Generation turning center

Munich. At the AMB in Stuttgart DMG MORI is presenting the NLX 2500|700 2. Generation, a successor model of the best-selling turning center, implementing deep-reaching optimizations in machine structure, control and various functionalities. The innovation leader has considered the requirements of today's markets and embedded the new model in the Machining Transformation (MX) concept. Process Integration, Automation, Digital Transformation (DX) and Green Transformation (GX) are the key pillars of this concept with which DMG MORI is shaping the future of manufacturing. The NLX 2500|700 2. Generation provides users with various needs with maximum flexibility and running autonomy in universal turning. The core characteristics of the powerful NLX series – its stability and the associated precision – have been enhanced even further. The aim is to reduce throughput times and increase machining quality. With these measures and the adaption of high torque turnMASTER spindles on the left and right, the NLX 2500|700 2. Generation will continue to set standards in the productive heavy-duty machining of demanding workpieces.

Precision machining for a wide range of workpieces

Enhanced and fine-tuned box guideways, stable roller guides with a width of 55 mm and double anchored ball screws ensure high rigidity in the machine's guide and drive geometry. The sophisticated temperature stabilization and compensation minimizes thermal displacements coming from machine operation and environment. Among other measures, this is guaranteed by internally cooled ball screws, machine bed and spindle temperature control. In addition, the direct measuring system SmartSCALE provides longtime stability in production and prolonged drive accuracy. The turret is available as a BMT60, BMT40 or VDI40 with ten to 20 tool positions. The driven tools reach speeds of up to 12,000 rpm or torques up to 100 Nm depending on the machining needs. Designed for extreme heavy-duty machining, the left 10" turnMASTER spindle of the NLX 2500|700 2. Generation offers a torque of up to 828 Nm, optionally even up to 1273 Nm with the 12" version. The right spindle is available in 6", 8" and 10" design with a torque of up to 577 Nm at the top end.

With a maximum turning diameter of \varnothing 366 mm and a turning length of up to 708 mm, the NLX 2500|700 2. Generation offers capacity for a very wide range of workpieces. The maximum bar capacity for operation with bar feeders is increased to \varnothing 105 mm on both spindles compared to \varnothing 80 mm on the previous generation. The travel distances are 260 mm in the X-axis and 795 mm in the Z-axis. A travel of 120 mm (\pm 60 mm) in the Y-axis allows off-center milling, drilling and further operation with driven tools for more flexibility. Automatic In-machine measurements can be carried out during machining at various positions, allowing users a high degree of process integration.

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Integrated processes through exclusive DMG MORI technology cycles

The stealth design makes the NLX 2500|700 2. Generation more durable and easier to maintain. Control is via the user-friendly ERGOline control panel with CELOS X on SIEMENS (SINUMERIK ONE) or MAPPS (FANUC 31iB Plus). Numerous exclusive technology cycles facilitate workshop-oriented programming in both cases. For example, complex processes such as gear hobbing can be integrated, enabling the NLX 2500|700 2. Generation to fulfill a key requirement in Machining Transformation (MX).

Automated universal turning for maximum productivity

Just like the integration of multiple processes in one workspace, the automation of production also plays a major role in the context of Machining Transformation (MX). The range of flexible automation solutions for the NLX 2500|700 2. Generation includes the classic gantry loader and various robot-based products, including the Robo2Go and the IMTR or the MATRIS light and the WH-AMR 10 as autonomous mobile robots for handling workpieces. Integrated solutions for automatic unloading of workpieces are also available to match working with bar feeders. These automation solutions are operated directly via the SIEMENS or MAPPS control system. Extended machining autonomy on the NLX 2500|700 2. Generation allows continuous production even in unmanned night and weekend shifts. Machine utilization can be maximized in order to keep production lean. All of this without making compromise in sustainability and reducing use of resources like lubrication oil, coolant, compressed air and electricity.

Efficient use of energy and resources

Compared to the first NLX generation, the NLX 2500|700 2. Generation is more economical and efficient in all respects. Power consumption has been reduced by 16 percent, air and oil by 12 and 50 percent respectively. The new model is now operated with 400 V instead of 230 V, which has also reduced energy consumption. With an extensive coolant and chip management in place, the coolant in use gains longevity, reducing total consumption, meaning that the machine also supports the Green Transformation (GX) in the long term.

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NLX 2500|700: DMG MORI has embedded the NLX 2500|700 2. Generation in the Machining Transformation (MX) concept.



The NLX 2500|700 2. Generation provides users with various needs with maximum flexibility and running autonomy in universal turning.

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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.

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