

Global Corporate Communications

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Efficiency and precision for key industries

High-tech solutions for aviation, mobility, and medical technology

Munich. Under the motto “We Build the Future,” DMG MORI will showcase the future of industrial manufacturing at the 2026 Hannover Messe (April 20–24) in Hall 27, Booth A36. The focus is on end-to-end integrated process solutions for demanding key industries. DMG MORI will demonstrate how the four pillars of industrial manufacturing—process integration, automation, Digital Transformation (DX), and Green Transformation (GX)—enable companies to manufacture the most complex components with maximum efficiency, precision, and sustainability.

Comprehensive solutions for the most demanding industries

Requirements in industries such as aerospace, mobility, and medical technology are constantly increasing: components are becoming more complex, materials more demanding, and the pressure for greater sustainability and efficiency is growing steadily. At the Hannover Messe, DMG MORI is showcasing comprehensive manufacturing concepts designed to meet these challenges. Process integration—achieved through the intelligent combination of various technologies such as milling, turning, grinding, and additive manufacturing in a single machine—shortens process chains. It not only reduces lead times and costs but also increases accuracy by eliminating setup errors.

Combined with end-to-end automation—from pallet handling to highly flexible workpiece handling solutions—DMG MORI enables highly productive, automated manufacturing around the clock. Digital twins for simulation and optimization, intelligent software for process control, and sustainable machine concepts create a transparent, resource-efficient, and future-proof production environment. At the Hannover Messe, these principles can be experienced live in concrete applications for the aerospace, mobility, and medical technology sectors.

Use Case “Aviation & Space”: From additive manufacturing to process integration

In the aerospace sector, DMG MORI showcases the enormous breadth of its technological expertise. A highlight is a 3D-printed thrust chamber developed in collaboration with RWTH Aachen University. Additive manufacturing is used here to create complex internal cooling channels. These keep the wall temperature below 700 °C during operation, representing a significant innovation for the aerospace industry. DMG MORI also uses a turbine disc as an example to demonstrate how process integration can streamline production costs. For the turbine disc, the number of manufacturing steps was reduced from 13 to five, and the number of machines required was cut from five to one. The combination of turning, milling, grinding, and deburring in a single machine revolutionizes efficiency here.

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A third highlight is the production of a wing rib nearly two meters long from a single block of aluminum on a DMU 340 Gantry. This integral component of an aircraft wing serves as a prime example of how highly complex and, at the same time, very large components can be machined with maximum precision and efficiency.

Use Case “Medical”: Precision for a better quality of life

DMG MORI also presents a selection of high-precision manufacturing solutions for the medical technology sector. For the production of microsurgical instruments at Stoffel (INSTO) for example, DMG MORI is showcasing a fully automated 5-axis machining solution that ensures the highest precision in the micrometer range.

Use Case “Mobility”: Integrated Manufacturing for Tomorrow's Mobility

In the mobility sector, DMG MORI is showcasing its innovative strength with two key exhibits. A mounting system for wall boxes developed for MeVolt, which combines milling, turning, and grinding in a single setup, serves as another prime example of process integration.

In addition, two further application examples will be presented, highlighting DMG MORI's expertise in modern vehicle manufacturing. The first involves the high-precision machining of a stator housing for electric drives. This process utilizes a tooling concept developed by MAPAL that combines roughing and finishing of the central stator bore in a highly efficient process. Second, various lightweight components optimized for racing use will be presented for the BRS Motorsport Team at Bonn-Rhein-Sieg University of Applied Sciences. The parts, manufactured from high-strength aluminum alloys, impressively demonstrate how DMG MORI meets the extreme demands of motorsports in terms of materials, lightweight construction, and precision.

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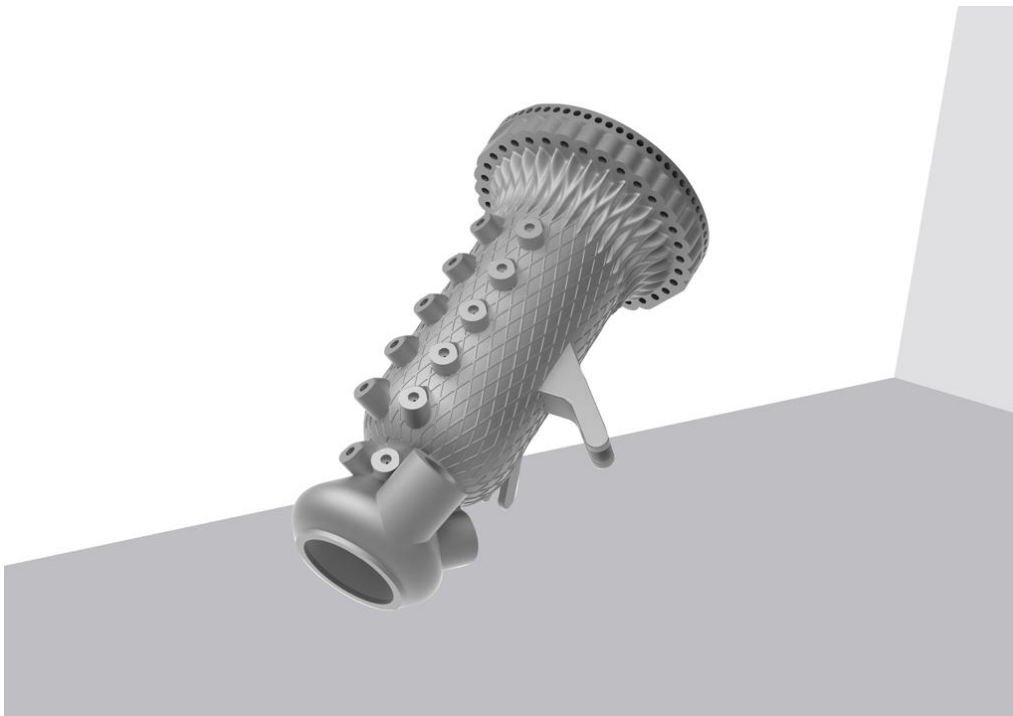
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Wall box carrier MK24 QUATTRO: The MK24 QUATTRO carrier system from MeVolt, whose core components are manufactured on a DMG MORI machine in a single setup.



Thrust Chamber for Hopper: High-tech for space exploration: The thrust chamber for Space Team Aachen's "Hopper" rocket, manufactured using additive manufacturing on a LASERTEC 30 SLM from DMG MORI.

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Fully automated 5-axis machining from DMG MORI for **microsurgical instruments** at Stoffel (INSTO) – maximum precision in the micrometer range, illustrated in a size comparison with a match.



Focus industry aviation: In addition to highly dynamic 5-axis machining, DMG MORI offers integrated processes such as milling, turning, grinding, and measuring. These technologies ensure the precise manufacturing of engine components, structural parts, and satellite housings with minimal material consumption and the highest quality standards.

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Focus industry Mobility: DMG MORI offers a flexible portfolio of milling and turning machines featuring highly dynamic drive systems, integrated measurement technologies, and automated manufacturing solutions.



Focus Industry Medical: DMG MORI offers high-performance turning and milling machines equipped with integrated measurement technology, zero-point clamping systems, and automated part handling. This enables the cost-effective, repeatable production of implants, surgical instruments, and prosthetic components with the highest surface finish.