



PRESS RELEASE

NIDEC Machine Tool Revolutionizes Gear Manufacturing with MGC300 Multitask Gear Center

Kyoto, Japan – November 1th, 2024 – NIDEC Machine Tool Corporation, a global leader in precision machining solutions, today announced the development of the MGC300, a high-efficiency, compact multitask gear center capable of composite machining. This innovative machine combines the precision of gear machining with the versatility of multi-axis machining, offering significant advantages for manufacturers.

Key Features and Benefits:

- **Enhanced Productivity:** High-speed, direct-drive table and rapid traverse rates minimize non-cutting time, boosting overall productivity.
- **Versatile Machining Capabilities:** Consolidates multiple processes, including gear cutting, turning, drilling, and milling, reducing setup time and labor costs.
- **Compact Footprint:** Space-saving design maximizes shop floor utilization.
- **User-Friendly Operation:** Intuitive user interface and simplified programming streamline setup and precise operation.



Multitask Gear Center MGC300

“The MGC300 is a game-changer for manufacturers seeking to optimize their gear production processes,” said Haruhiko Niitani, President at NIDEC Machine Tool. “By combining the best of both worlds, we’ve created a machine that delivers exceptional performance, flexibility, and ease of use.”

NIDEC Machine Tool’s MGC300 was showcased at JIMTOF2024, where it demonstrated its composite machining capabilities, including keyway cutting, screw cutting, and skiving. The machine will also be paired with Takisawa Machine Tool’s TR-20W robot system for automated workpiece handling.

As a leading provider of gear machining solutions, NIDEC Machine Tool is committed to delivering innovative products that meet the evolving needs of the industry. The MGC300 is the latest example of the company’s dedication to providing comprehensive solutions that empower manufacturers to achieve new levels of efficiency and productivity.

Multitask Gear Center MGC300

Specifications		MGC300
Displacement (X, Y, and Z axes)	mm	500, 480, 460
Fast-forwarding speed (X, Y, and Z axes)	m/min	63
Maximum work diameter	mm	Φ300
Maximum machining module		3.0
Maximum main axis rotation speed	min ⁻¹	12,000
Maximum table rotation speed	min ⁻¹	2,000
Main axis taper hole		7/24 taper No. 40 (Two-side constraint)
Automatic tool changer capacity		40
Floor space (width x depth x height)	mm	2,000 x 2,910 x 3,195

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About NIDEC Machine Tool Corporation

NIDEC Machine Tool Corporation is a leading global provider of precision machining solutions, specializing in gear manufacturing equipment and cutting tools. The company, along with NIDEC OKK, PAMA, and TAKISAWA, works collaboratively to deliver high-quality, high-efficiency machine tools that support various industries worldwide.

Website: <https://www.nidec.com/en/machine-tool/>