

PRESS RELEASE

Nidec Machine Tool Launches ZFA Series Gear Grinders

New Models Offer High Precision and Efficiency

Kyoto, Japan – October 16, 2024 – NIDEC Machine Tool Corporation today announced the launch of the ZFA Series, a new line of high-precision gear grinders designed to meet global demand for advanced gear machining. The ZFA160 and ZFA260 models offer exceptional performance and efficiency for a wide range of gear sizes.

The ZFA Series will be showcased at the Japan International Machine Tool Fair (JIMTOF2024) from November 5-10 in Booth E2032.

Designed for high-speed and high-precision finishing of gears, the ZFA Series features a twin-table structure and high-speed rotary performance, resulting in a significantly reduced non-machining time compared to previous models. The ZFA160 and ZFA260 also incorporate advanced features to ensure fast, stable and accurate machining, including stiffer work-table structures, grinding spindles, and dressing units.



Gear grinding machine ZFA series

The ZFA Series is ideal for machining gears for electric vehicles and robots, offering features like simultaneous double-tooth flank bias adjustment and low-noise machining. Additionally, the models are designed with environmental sustainability in mind, featuring a circular, filter fabric coolant tank that reduces waste generation.

As the demand for high-precision gears continues to grow, NIDEC Machine Tool is committed to providing innovative solutions that meet the evolving needs of the global market. The ZFA Series offers a combination of precision, efficiency, and sustainability, making it a valuable asset for manufacturers worldwide.

Main specifications of gear grinding machines ZFA160 and ZFA260

Specifications	Unit	ZFA160	ZFA260
Maximum work-piece diameter	mm	φ160	φ260
Process-able module*4	mm	Standard	1 - 4
		OPT	0.5 - 1.0
Grinding wheel external diameter	mm	φ208 - 275	
Grinding wheel maximum rotating speed	min ⁻¹	8,000	
Table maximum rotating speed	min ⁻¹	3,000	2,000
Electric source capacity	kVA	110	
Machine mass	kg	15,000	

- *1. By installing two work-accommodating tables onto a machine, one can set up machining on one side while machining is underway on the other side.
- *2. A component or material whose natural rock, etc. has been solidified with resin. This material has a low thermal conductivity, is hard to be affected by temperature change, and has a high vibration damping. In addition, unlike cast metals, there is no manufacturing process that discharges a large amount of CO₂.
- *3. An index that indirectly represents the precision of a gear's pitch circle. "O.B.D" stands for "over ball diameter."
- *4. Module: A value that represents the size of a gear's teeth (*i.e.*, the pitch circle's diameter (mm) divided by the number of teeth).

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About NIDEC Machine Tool Corporation

NIDEC Machine Tool Corporation is a global leader in innovative machine tool solutions. 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/>