

October 01, 2025

Nidec OKK Launches VN5, a New, Simple and Compact Vertical Machining Center

Nidec OKK Corporation (“Nidec OKK” or the “Company”), a Nidec Group company, today announced the launch of VN5, a new vertical machining center on Wednesday, October 01, 2025.



Nidec OKK's new vertical machining center, VN5

VN5 is a compact model whose **footprint approximately 24% smaller** than that of VM53RII (specifications: BT*40), Nidec OKK best-selling vertical machining center. Optimum for medium- to light-duty cutting of aluminum, iron, and cast metals among others, VN5 boasts a wide range of general-component processing operations, while meeting the small-scale production environments and small-footprint-focused customers, with its excellent machining performance and usability.

VN5 was designed to address the demands of users who consider BT30-class machines inadequate in terms of machining performance, or who seek easy-to-operate equipment suitable for standard machining operations. Now, with the addition of VN5 to the lineup of Nidec OKK's existing products (the VM series for deeper cut machining, VB53 α for precision, high-grade machining, and the VP series for high-speed machining), our customers can have an optimum machine selection for a wider range of machining applications.

VN5's main features include:

■ Simple and compact design

- The low-center type-C column provides superior structural rigidity and machining stability.
- Ideal for medium - and light-duty cutting of aluminum, cast iron, and a wide variety of other materials.

■ High-power spindle and rapid acceleration

- The standard high-output spindle (20kW/15kW) delivers excellent cutting performance.
- Achieves high productivity with rapid axis acceleration of 0.7G.

■ High-precision performance over extended Operation

- Standard equipment includes high-rigidity linear roller guides and scale feedback on all three axes (X, Y, Z) .
- Maintains high dimensional accuracy even during extended machining runs.

■ Excellent maintainability

- The built-in automatic lubrication system for feed axes reducers daily maintenance requirements.

VN5's main specifications

Each axis's movement	X axis	mm	920
	Y axis	mm	510
	Z axis	mm	460
Table dimensions		mm	1,050 x 510
Main spindle specifications	Main spindle rotating speed	min ⁻¹	100 to 12,000 (OP: 15,000)
	Main spindle taper (reference number)	-	7/24 taper No. 40 (double-side constraint)
	Main spindle output (25%ED/continuous)	kW	20/15
	Main spindle torque (25%ED/continuous)	N•m	127.0/71.6
Rapid traverse rate	X axis	m/min	40
	Y axis	m/min	40
	Z axis	m/min	30
Number of tools kept inside		tools	24 (OP: 30)
Floor space (width x depth x height)		mm	2,655 x 2,860 x 2,650
Machine weight		kg	6,000
Control unit		-	FANUC 0i-MODEL F Plus

*BT (bottle grip taper): A conoidal tool holder, used to make connections with the main axis, that indicates the shape and standard of a shank (where a cutting tool is attached). The number immediately after the BT indicates the shank's size.

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