



February 3, 2023

Company: Nidec Machine Tool Corporation
Representative: Kenichi Wakabayashi (Representative Director, President and CEO)
Address: 130, Rokujizo, Ritto, Shiga

Nidec Machine Tool Launches MV12BxII, a compact, best-in-class, double-column Machining Center that meets “The Machining Needs of All Industries”

- **High-speed rapid traverse and a powerful spindle to improve productivity significantly**
- **Eco-friendly operations that reduce environmental load and running cost**

Nidec Machine Tool Corporation, a Nidec Group company, announced today that it has launched its latest double-column machining center, MV12BxII. Developed based on the concept of meeting “the machining needs of all industries,” this high-efficiency machine brings the best-in-class speed of a rapid traverse that significantly reduces non-cutting time, while achieving the highest productivity among all compact double-column machining centers. In addition MV12BxII uses grease to lubricate all of its spindle and feed axes to improve energy efficiency and running cost, as well as featuring an electric power unit that enables ecofriendly operations. Offered as a machine that meets a diverse range of production requirements, such as high-precision surface quality to general parts machining, from light cutting to heavy cutting. MV12BxII will be unveiled to the public at Nidec Machine Tool’s Large-Machine Preview scheduled on Tuesday, February 21 and Wednesday, February 22 at its Main Plant in Ritto, Shiga, Japan.

Nidec Machine Tool’s double-column Machining Center, MV12BxII



With the high-speed of the rapid traverse (Xaxis: 48m/min., and Y- & Zaxes: 32m/min.), MV12BxII realizes shorter non-cutting time, while its spindle’s maximum rotating speed has been improved to 7,000min-1, and its motor output has been increased to 26kW. Further, with a compact machine-installation space of 3.4 x 5.8m and a maximized range of operation (X-axis stroke: 1.6m, and Y-axis stroke: 1.3m), MV12BxII’s productivity is second to none among double-column machining centers with a BT50 taper spindle in this class.

With the use of an energy-efficient and low-noise electric power unit to operate its pump only when necessary, MV12BxII consumes much less power than conventional hydraulic units that are always running. In addition, the adoption of the tribology technology that Nidec Machine Tool has long developed and perfected, it enables the use of grease to lubricate MV12BxII’s spindle and feeding axes, helping the machine to use less air and lubricant agent, to reduce running cost and operators’ workload.

Additionally, MV12BxII has available a variety of user-satisfying options that were jointly developed with Nidec OKK Corporation, whose product lineup includes small- and medium-sized machining centers. The options include an automatic operator door, a coolant shower, and a selectable chip conveyor, is enough to meet various user needs.

Nidec Machine Tool stays committed to developing technologies for optimum productivity, safety, and environmental performance, and offering products that meet the diverse needs of production sites around the world.

MV12BxII's main specifications

Section/model		MV12BxII	
Distance between columns (mm)		1,460	
Table	Table work surface	Width (mm)	1,300
		Length (mm)	1,600
	Loading capacity (kg)		3,000
Distance from table top surface to spindle nose (mm)		200-860	
Axis travel (mm)	X	1,600	
	Y	1,300	
	Z	660	
Rapid traverse (m/min)	X	48	
	Y	32	
	Z	32	
Cutting feed X, Y and Z axes (m/min)		10	
Spindle	Speed (min ⁻¹)	7,000	
	Motor output (kW)	26	
	Taper	BT50	
ATC tools (quantity)		30	

For inquiries on the above product, please contact Sales Division of Nidec Machine Tool Corporation at +81-77-552-9760.

-###-