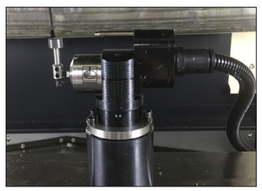
WG-6000 - Tilting Spindle Vertical Machining Center

Description			Specification
Table	Size (L×W)	mm	800 × 620
	Maximum Load Capacity	kgf	900
	Table Surface Configuration	mm	14H8 T-Slot - 5 X125 Pitch
Travel (X/Y/Z-axis)		mm	600 / 600 / 320
Spindle Nose to Table Top		mm	480 ~ 600
Rapid Traverse (X/Y/Z-axis)		m/min	24 / 20 / 10
Cutting Feed		mm/min	10
Spindle	Taper	NT#	HSK-A63 [Opt. BT40]
	Speed	rpm	Built-in : 15,000
	Tilting Angle	deg	30°
ATC	Number of Tools	EA	16
	Max. Tool Dia.	mm	Ø100
	Max. Tool Length	mm	200
	Max. Tool Weight	kgf	7
	Tool Selection Method	-	Fixed
Coolant Tank		ℓ	130
Precision	Positional Precision	mm	±0.005 / Full Stroke
	Degree of Repetition	mm	±0.003
Electric Power Supply		kVA	40
Machine Floor Space (L×W×H)		mm	2,545 × 2,840 (3,429) × 2,700 (Coolant Tank Included)
Machine Weight		kgf	-
NC Controller		-	Mitsubishi M80

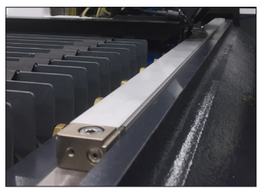
※ Specifications are subject to change without notice for improvement.

User Convenience



TLM (Opt.)

Tool length and diameter measuring device (Renishaw TS27R Probe Kit)

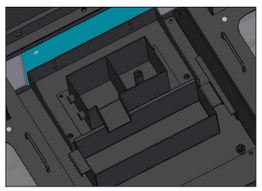


Linear Scale

Scale is installed on all axes (X, Y, Z), ensuring stable positioning accuracy

Water Chiller

Forced water cooling method for the spindle ensures stable spindle precision



Oil-water Separation System

Grease Lubricating Device (Opt.)

The grease lubricating device prevents cutting oil corruption and product contamination while providing improved quality and reduced maintenance costs.

(Cartridge type and Pump type)

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WG-6000

Tilting Spindle
Vertical Machining Center

WMENT
World Industry Ment

WG-6000

Tilting Spindle Vertical Machining Center

Travel (X×Y×Z-axis)

660×600×320 mm

Rapid feed rate (X×Y×Z-axis)

24×24×20 m/min

Mamufacturing **Innovation**

High Productivity and Stable Precision

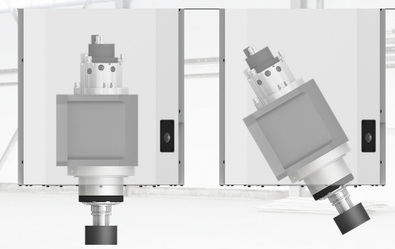
- Gate-type structure design optimized to maintain stable precision
- 15,000 r/min built-in spindle for high-speed machining and powerful cutting performance
- Increased productivity with automatic tool changer

Improved User Convenience

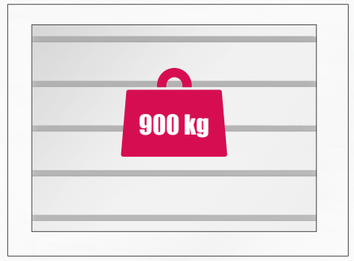
- Convenient work setting with rotating control panel (the control panel rotates by 90 degrees)
- Greater operator convenience with wider door opening
- Improved operator efficiency with optimal table height

The high-rigidity mechanical structure ensures continued high-speed high-precision cutting performance with stability and reliability.

❶ Built-in Spindle



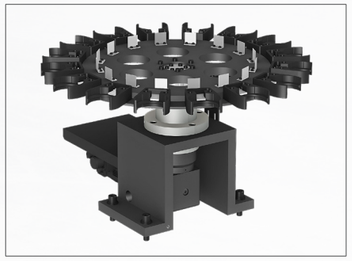
- Spindle tilting (30°) function is available. (manual)
- The standard built-in spindle boasts excellent performance for high-speed and high-precision machining.
- The spindle (HSK-A63) and BT40, which simultaneously restrain the spindle taper section and the tool taper section on both sides, are available optionally.



❷ Table

The wide working area allows the machine to accommodate a wide range of materials while the 2-door open design provides enhanced accessibility and convenience for material setting.

Table size : **800**×**620** mm
Max. table load : **900** kg

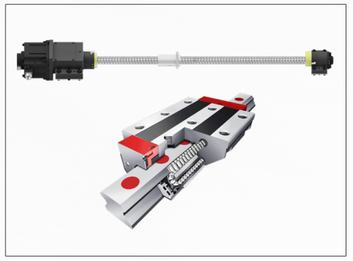


❸ ATC & Magazine

The servo motor driven tool change method ensures greater reliability.

Tool change time is greatly reduced, leading to productivity improvements.

Number of tools : **16** ea



❹ Guideway

4-row bearing support and lubrication method used for the transfer haft ball screw.

LM Guideway used for the transfer mechanism.

Bearing : **4-row** bearing

Chip Disposal Solution

Chips are discharged from the rear of the machine, keeping the working environment clean while providing improved work convenience.