Items		Unit	VMC850HS
Machining Capacity	X travel	mm	850
	Y travel	mm	550
	Z travel	mm	600
	Spindle nose to table surface	mm	125-725
Table	Table size	mm	1000×500
	Table loading	kg	500
	T slot size	mm	5×18×100
Spindle	Drive type		Built-in spindle
	Max. Spindle speed	r/min	12000
	Spindle power	kW	11/18.5
	Spindle taper	-	BT40
	Pull stud	-	MAS-P40T- Ⅰ
Feed Rate	Rapid traverse(X/Y/Z)	m/min	48/48/48
	Cutting feedrate(X/Y/Z)	m/min	20/20/20
Tool Magazine	Tool magazine capacity	T	24
	Tool magazine type	-	Arm type
	Max.tool dia. (Adjacent Vacant)	mm	Φ80/Φ150
	Max. tool length	mm	300
	Max. tool weight	kg	8
Other	Machine size(L×W×H)	cm	243×280×280
	Power capacity	kVA	30
	Machine weight	t	5

Standard Configuration

1 Controller: Mitsubishi M80
FANUC 0i

2 12000rpm built-in spindle /
12000rpm mechanical direct drive

3 Spindle oil chiller

4 24T ATC

5 Cutting cooling
(water cooling and air cooling)

6 Tool magazine protection

7 Internal flush chip system (rear)

8 External hopper type rear water tank

9 Full enclosure with top cover

10 3-color signal lamp, working light

11 Air gun

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NEW 2023-EN-GS-A The text description, pictures and technical parameters in the sample are for reference only, and the changes due to technological development are subject to change without notice.

HIGH-SPEED VERTICAL MACHINING CENTER

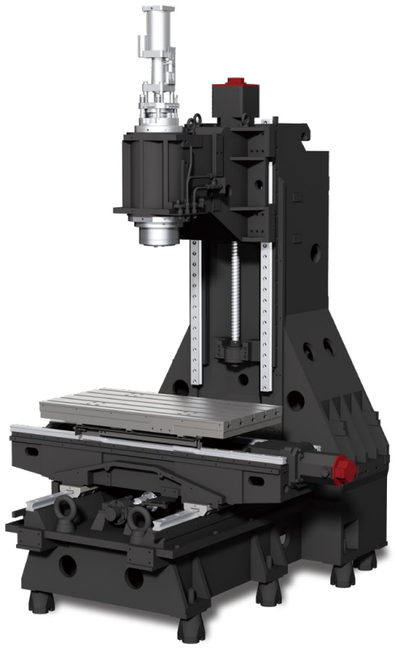
VMC850HS

HISION

VMC850HS

VMC850HS high-speed vertical machining center is a newly developed high-speed vertical machining product based on VMC II and combined with the characteristics of nonferrous metal processing.

The product is equipped with a high-performance electric spindle system and a high dynamic response feed system to make the machining more high-speed and efficient. It is mainly applicable to die casting aluminum, copper, and other nonferrous metal fields.



Large Span Bed

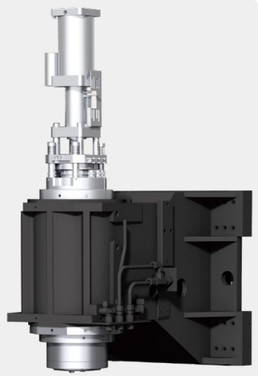
Large span casting bed, column, to ensure the stability of processing

48 m/min

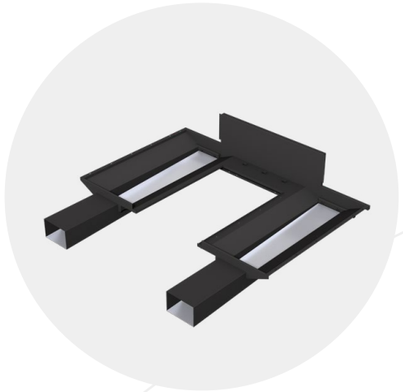
X/Y/Z rapid traverse

High Speed, High Performance Spindle

- Standard built-in motorized spindle, small moment of inertia, fast start and stop speed, 0 to 8000 rotation start only 0.8s.
- Equipped with synchronous water cooling cycle technology to reduce the thermal deformation of the spindle.
- Optional 12000rpm direct mechanical spindle.



VMC850HS

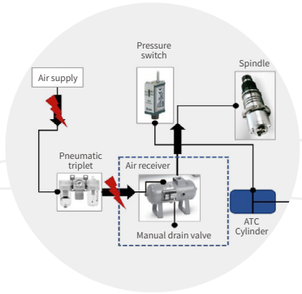


Integrated Chassis Chip Removal

The integrated chip washing tank is equipped with steep slope stainless steel plate base plate to optimize the chip washing effect and eliminate water leakage at the source.

Tool Change Stability

The air receiver is equipped as standard, so that the air path of the machine tool is not affected by the external air source of the factory, thus improving the stability of spindle tool change.



Full Enclosure Protection

- **Full enclosure with top cover:** optimize and upgrade, and reject oil leakage, water leakage and chip leakage.
- **Tool magazine protection:** equipped with tool magazine oblique protection, which is more convenient for drainage and chip removal, reduces the risk of iron chips entering the tool sleeve, and improves the stability of the machine tool.