

CNC Vertical Machining Center

This CNC vertical machining center is designed for high-precision metal cutting applications. It features a rigid frame, powerful spindle motor, and advanced control system for efficient material removal and precise part creation.



Overview

High-Precision CNC Vertical Machining Center

This series of CNC vertical machining centers is engineered for high-precision metal cutting, including milling, drilling, tapping, and boring. Featuring a rigid cast iron bed and rectangular hardened guideways, these machines provide exceptional stability and accuracy for demanding production environments. With a variety of models available, they offer versatile solutions for professional workshops seeking efficient material removal and reliable performance.

Key Performance Metrics

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0.005 mm Positioning Accuracy	0.003 mm Repeatability	24 Tools Tool Capacity	12 m/min Rapid Feed Rate
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Model Comparison

項目/Item	型號/Model	VMC1060	VMC1370	VMC1690	VMC1890
移動/Move	X軸行程/X-axis travel	1000	1300	1600	1800
	Z軸行程/Z-axis travel	600	650	680	680
	Y軸行程/Y-axis travel	600	650	680	680
精確度/Accuracy	Z軸與X軸之間的距離/Distance between spindle and X-axis	140-740	140-790	140-840	140-840
	Z軸與Y軸之間的距離/Distance between spindle and Y-axis	100	100	100	100
工作速度/Working speed	最高進給速度/Maximum feed rate	13000/6000	14000/7100	18000/9000	20000/10000
	下刀速度/Downing speed	18-35X1000	20-35X1000	22-35X1000	25-35X1000
刀架/Tool rack	可容納刀數/Number of tools	800	1000	1000	1000
	工作重量/Working weight	800	1000	1000	1000
	最大轉速/Maximum speed	7211	10715	15222	15222
主軸/Spindle	主軸功率/Spindle power	8000	6000	6000	6000
	主軸轉速/Spindle speed	8740	8750	8750	8750
	主軸直徑/Spindle diameter	2	3.5	6	6
床身/Bed	X、Y軸直徑/X、Y-axis diameter	2	3.5	6	6
	床身高度/Bed height	15	15	15	15
	床身重量/Bed weight	6	6	6	6
精度/Precision	定位精度/Positioning accuracy	±0.005	±0.005	±0.005	±0.005
	重複精度/Repeatability	±0.003	±0.003	±0.003	±0.003
	最高切削速度/Maximum cutting speed	12	12	12	12
自動換刀/ATC	換刀時間/Change time	8	8	8	8
	最大負載/Maximum load	±80mm X 7kg X 200mm			
其他/Other	電機功率/Power requirement	30	35	45	45
	總重量/Total weight	6500	9500	13500	15000

Detailed technical parameters for VMC1060, VMC1370, VMC1690, and VMC1890 models.

Technical Specifications by Model

Model	X/Y/Z Travel (mm)	Table Size (mm)	Spindle Power (KW)	Net Weight (kg)
VMC1060	1000 / 600 / 600	1300 x 600	7.5 / 11	6500
VMC1370	1300 / 700 / 650	1400 x 710	15 / 18.5	9500
VMC1690	1600 / 900 / 680	1800 x 900	18.5 / 22	13500
VMC1890	1800 / 900 / 680	2000 x 900	18.5 / 22	15000

Spindle & Tooling

Spindle Taper
BT40 • BT50

Tool Changer Type	Arm type (Disc magazine)
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Tool Change Time	3 s
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Construction

Bed Material	High quality cast iron
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Guideway Type	Rectangular hardened guide ways
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Ball Screw Grade	C3 grade ball screw
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Control & Systems

Supported CNC Control Systems	FANUC, MITSUBISHI, SIEMENSE, KND, HNC, GSK
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Lubrication System	Central lubrication
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Machine Protection	Totally enclosed guard
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