

VERTICAL 5 AXIS MACHINING CENTERS



MDV551-5AX

Features

- Surface grinding mechanism coordinates A-axis and C-axis to allow one-time clamping and ensures precise work piece processing.
- A-axis and C-axis built-in pallet uses a gear drive to prevent backlash. This has the advantages of high overload, high transmission and high precision.
- Precision transmission of gear drive maintains more than 90% of power efficiency to ensure cutting precision and to avoid heat generation that causes wear and tear.
- Gear drive pre-loaded system provides high rigidity for heavy cutting.
- A-axis center of rotation is 100mm higher than pallet to facilitate tool and three axis stroke cooperation to present high precision efficiency.

Specification

Item	Specification	Unit	MDV551-5AX
Capacity	X/Y/Z-Axis Travel	mm	635+315/530/450
	Spindle center to table top	mm	327
	Spindle nose to table center	mm	200-650
	Table height	mm	1100
	A-Axis Move Way	deg	-20° ~ 100°
	C-Axis Move Way	deg	360°
Table	Table size	mm	Ø350
	Max. Jig dimension (Dia./Height) mm		Ø670xH375 (Shape Limit)
	Max. Load Capacity (workpiece load)	kg	300
Spindle	Spindle Motor	kw	22/18.5
	Spindle Taper		BT40 (HSK-A63 OPT)
	Spindle Speed	rpm	12000 (20000)
	Bearing Lubricate way		Grease
Feed	Rapid Feed (X/Y/Z)	m/min	40/40/40
	Rapid Feed (A/C)	deg/min	4000° / 12000°
	X-Axis Motor	kw	4
	Y-Axis Motor	kw	4
ATC	Z-Axis Motor	kw	7
	Tool Shank		BT40 (HSK-A63 OPT)
	Tool Station		16 (30 OPT)
	Max. Tool dia	mm	Ø125
	Max. Tool dia (w/o adjacent tool)	mm	Ø125
Machine	Max. Tool Length	mm	300
	Max. Tool Weight	kg	8
	Tool Change Method		Fixed Address
	Machine Dimension (LxWxH)	mm	2570*3055*3266
	Machine Weight	kg	11000
Controller	FANUC		18iMB5.

Picture showing AXES

