

VTC-Y Series

VTC-3040Y/4050Y/5060Y

Double Column Vertical Turning Center with Linear Table Axis(Y-axis)

› **Super large size vertical turning center with multiple axis heavy-duty machining capability.**

- Optimize your machining capacity using the Y-Axis for milling and drilling of center locations and multi-axis holes.
- Circular interpolation operations will improve a better productivity and surface finish than machining center.
- Y-axis can be positioned away from center allowing larger diameter machining and saving cost.
- Complex parts can be made easier by multi-axis machining using X, Z, Y and C axis.
- Y-axis design improves stability of the slide way and increases table load capacity.



Machine Specifications

Items		Unit	VTC-3040Y	VTC-4050Y	VTC-5060Y
Capacity	Maximum swing	mm(inch)	4000(157.5)	5000(196.5)	6000(236.2)
	Maximum turning diameter	mm(inch)	4000(157.5)	5000(196.5)	6000(236.2)
	Maximum turning height	mm(inch)	2000/2500(78.7/98.4)	4000/4500(157.5/177.2)	4000/4500(157.5/177.2)
	Maximum load on table	kg(lbs)	30,000(66,140)	50,000(110,200)	60,000(132,270)
Table	Table diameter	mm(inch)	3000(118.1)	4000(157.5)	5000(196.8)
	Table speed	rpm	1~100	1~60	1~50
	Number of table speed range	step	Automatic 2		
C-axis	Cutting feed	deg/min	0~180	1~120	0~120
	Maximum speed	rpm	0.5	0.333	0.333
Ram Head	Tool size	mm(inch)	50×50(2×2)		
	Spindle taper	—	ISO 7/24 No.50		
	Section dimension of square ram	mm(inch)	300×300(11.8×11.8)	400×400(15.7×15.7)	
	Mill spindle speed	rpm	15~1500	30~3000	30~3000
Travel & Feedrate	X-axis travel (Saddle cross)	mm(inch)	4600(181)	6475(255)	7475(294)
	Z-axis travel (Ram vertical)	mm(inch)	1600(63)	2500(98.4)	2500(98.4)
	W-axis travel (Cross rail vertical)	mm(inch)	1500/2000(59/79)	2500/3000(98.4/118)	2500/3000(98.4/118)
	Y-axis travel (Table horizontal)	mm(inch)	3000(118)	4000(157.5)	5000(197)
	X/Z-axis cutting feedrate	mm/min(ipm)	Max.8000(315)	Max.6000(236)	Max.6000(236)
	X/Z-axis rapid traverse	mm/min(ipm)	8000(315)	6000(236)	6000(236)
	W-axis rapid traverse	mm/min(ipm)	500(19.7)	500(19.7)	500(19.7)
Y-axis rapid traverse	mm/min(ipm)	5000(197)	6000(236)	6000(236)	
ATC	Type of tool holder	—	MAS BT50		
	Number of tool	set	VTB:12 tools, VTC:24 tools		
	Maximum tool weight	kg(lbs)	90(198)	110(243)	110(243)
	Type of pull stud	—	P50T-I		
Motors	Table motor	kW(Hp)	AC 60/75(80/100)	130(173)	150(200)
	Mill spindle motor	kW(Hp)	AC 22/26(25/30)	AC 37/45(50/60)	AC 37/45(50/60)
	X-axis servo motor	kW(Hp)	AC 9(12)	AC 14(18.6)	AC 14(18.6)
	Z-axis servo motor	kW(Hp)	AC 9(12)	AC 14(18.6)	AC 14(18.6)
	C-axis servo motor	kW(Hp)	AC 9(12)	AC 16(21.3)	AC 16(21.3)
	W-axis servo motor	kW(Hp)	AC 7(9.5)	AC 14(18.6)	AC 14(18.6)
	Y-axis servo motor	kW(Hp)	AC 16(21.3)	AC 16(21.3)	AC 16(21.3)
Machine Weight		kg(lbs)	120,000(264,550)	250,000(551,150)	290,000(639,340)
CNC System		—	FANUC 31i-A		

Standard Accessories

- CNC controller, FANUC 31i-A
- AC table and servo drives and motors
- Heavy duty 4-jaw independent chuck
- Automatic tool changer system(Turning 12-tool, Milling 12-tool)
- Oil cooling system for table gear & bearing
- C-axis scale
- Hydraulic power unit
- Automatic lubrication system for guides
- Coolant system
- Telescopic steel cover(X/W/Y-axis)
- Work light
- Patrol lamp(Red, Yellow, Green)
- Levelling block
- Foundation bolt & nut
- Operating tool box & tool kits

Optional Accessories

- Through spindle coolant
- Chip conveyor & bucket
- NC power off
- Transformer(380V)
- Tool holders

Note : Specifications and features are subject to change without prior notice.