

# Hi-V410D / Hi-V50D / Hi-V50DH



## Vertical Machining Center

For High Precision, High Speed and High Productivity

Hi-V50D Series are designed for the high productivity with the high precision, high speed, and precision accuracy.

The moving column design with the integral 180° turning pallet table (dual table) allows operator load/unload or set-up work pieces on another pallet while machining on the other pallet for the high productivity.

			Hi-V410D	Hi-V50D	Hi-V50DH
Table Size (length x width)		mm [in]	2-650 x 410 [25.6x16.1]	2-700 x 500 [27.6x19.7]	2-700 x 500 [27.6x19.7]
Table Load		kgf [lbs]	2 x 200 [441]	2 x 350 [772]	2 x 350 [772]
Travel	X	mm [in]	570 [22.4]	600 [23.6]	600 [23.6]
	Y		410 [16.1]	460 [18.1]	460 [18.1]
	Z		580 [22.8]	570 [22.4]	570 [22.4]
Spindle Taper		mm [in]	NT # 40	NT # 40	NT # 40
Spindle Speed	STD	rpm	10,000	8,000	12,000
Spindle Power	Main	kw [hp]	11/9 [14.7/12.1]	15/11 [20.1/14.7]	11/7.5 [14.7/10]
Rapid Traverse	X,Y axis	m/min [ipm]	36 [1,417]	40 [1,575]	40 [1,575]
	Z axis		30 [1,181]	30 [1,181]	30 [1,181]
Tool Storage Capacity	STD	EA	24	24	24
	OPT			30	30

Design and Specifications are subject to change without prior notice.

**HYUNDAI-KIA MACHINE  
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# Hi-V410D / Hi-V50D

## Specification

ITEM			Hi-V410D (Fanuc)	Hi-V410D (Siemens)	Hi-V50D	Hi-V50DH		
TABLE	Size (length x width)		mm [in]	2-650 x 410 [25.6x16.1]	2-650 x 410 [25.6x16.1]	2-700 x 500 [27.6x19.7]	2-700 x 500 [27.6x19.7]	
	Max. load on table		kgf [lbs]	2 x 200 [441]	2 x 200 [441]	2 x 350 [772]	2 x 350 [772]	
	Table type			T-slot	T-slot	Tap Hole	Tap Hole	
TRAVEL	Table longitudinal	X	mm [in]	570 [22.4]	570 [22.4]	600 [23.6]	600 [23.6]	
	Table cross	Y		410 [16.1]	410 [16.1]	460 [18.1]	460 [18.1]	
	Spindle head verticle	Z		580 [22.8]	580 [22.8]	570 [22.4]	570 [22.4]	
	Tilting	A	degree	-	-	-	-	
	Rotating	C		-	-	-	-	
	Distance from column to spindle center			495 [19.5]	495 [19.5]	500 [19.7]	500 [19.7]	
	Distance from table surface to spindle nose			197~ 777 [7.8~30.6]	197~ 777 [7.8~30.6]	200 ~ 770 [7.9~30.3]	200 ~ 770 [7.9~30.3]	
SPINDLE	Taper			NT # 40	NT # 40	NT # 40	NT # 40	
	Speed	STD	rpm	10,000	10,000	8,000	12,000	
		OPT		-	-	10,000		
	Power	STD	kw [hp]	11/9 [14.7/12.1]	16/12 [21.5/16.1]	15/11 [20.1/14.7]	11/7.5 [14.7/10]	
		OPT						
	Torque	STD	kgf-m [ft-lbs]	16.8 [121.5]	16.8 [90.4]	29.2 [211.2]	7.1 [51.4]	
OPT								
Spindle Drive		STD	Belt	Belt	Helical belt	Direct		
FEED	Rapid	X,Y axis	m/min [ipm]	36 [1,417]	36 [1,417]	40 [1,575]	40 [1,575]	
		Z axis		30 [1,181]	30 [1,181]	30 [1,181]	30 [1,181]	
	Tilting	A	rpm	-	-	-	-	
	Rotating	C		-	-	-	-	
	Cutting feed rate			m/min [ipm]	10 [394]	10 [394]	10 [394]	10 [394]
ATC	Type			twin arm	twin arm	twin arm	twin arm	
	Tool storage capacity	STD	EA	24	24	24	24	
		OPT				30	30	
	Max. tool diameter			mm [in]	90 [3.5]	90 [3.5]	90 [3.5]	90 [3.5]
	Max. tool diameter (without adjacent tool)				150 [5.9]	150 [5.9]	150 [5.9]	150 [5.9]
	Max. tool length				300 [11.8]	300 [11.8]	300 [11.8]	300 [11.8]
	Max. tool weight			kgf [lbs]	8 [17.6]	8 [17.6]	8 [17.6]	8 [17.6]
	Tool selection type			Random	Random	Random	Random	
	Tool change time	tool to tool chip to chip	sec.	1.5	1.5	2.1	2.1	
4.3				4.3	4.5	4.5		
MOTOR	Spindle	Main	kw [hp]	11/9 [14.7/12.1]	16/12 [21.5/16.1]	15/11 [20.1/14.7]	11/7.5 [14.7/10]	
	Feed	X / Y		3/3 [4/4]	5/5 [6.7/6.7]	4/4 [5.4/5.4]	4/4 [5.4/5.4]	
		Z / B		3 [4]	5 [6.7]	4 [5.4]	4 [5.4]	
	Coolant							
APC	Pallet change type			Dual table	Dual table	Dual table	Dual table	
	Pallet change time		sec.			6.0	6.0	
Coolant through spingle (Option)				20BAR	20BAR	30 bar	30 bar	
Rigid tapping				STD	STD	STD	STD	
Electric capacity			kVA	47	47	35	35	
Floor space			mm [in]	2,200 x 3,160 [86.6x124.4]	2,200 x 3,160 [86.6x124.4]	2,710 x 2,930 [106.7x115.4]	2,710 x 2,930 [106.7x115.4]	
Slide way				LM guide	LM guide	LM guide	LM guide	
Machine weight			kgf [lbs]	6,400 [14, 109]	6,400 [14, 109]	9,500 [20,944]	9,500 [20,944]	
Controller			STD	SIEMENS 810D	SIEMENS 810D	FANUC 0iM	FANUC 0iM	
			OPT			FANUC 0iM	FANUC 21iM	