

Hi-V560M/5A



Vertical Machining Center

- Low heat generation, low noise, low vibration main spindle structure with installation of synchronous build-in motor
- The best high speed, high precision feed drive system within the same class (direct connection structure with special high accuracy coupling)
- Adoption of oilless self lubricating method L/M guide and ball screw
- Minimized heat deformation through standard adoption of high volume main spindle cooling device(5,400Kcal/60Hz)
- Application of pantograph mechanism (Y axis) slide cover with no noise during feed.

			Hi-V560M	Hi-V560M/5A
Table Size (length x width)		mm [in]	1,250 × 600 [49.2x23.6]	1,250 × 600 [49.2x23.6]
Table Load		kgf [lbs]	800 [1,764]	800 [1,764]
Travel	X		1,000 [39.4]	1,000 [39.4]
	Y	mm [in]	560 [22.0]	560 [22.0]
	Z		450 [17.7]	450 [17.7]
Spindle Taper		mm [in]	HSK-A63	HSK-A63
Spindle Speed	STD	rpm	24,000	24,000
Spindle Power	Main	kw [hp]	33/25 [44.3/33.5]	33/25 [44.3/33.5]
Rapid Traverse	X,Y axis	m/min [ipm]	50 [1,969]	50 [1,969]
	Z axis		40 [1,575]	40 [1,575]
Tool Storage Capacity	STD		24	24
	OPT	EA		

Design and Specifications are subject to change without prior notice.

**HYUNDAI-KIA MACHINE
AMERICA CORP.**

Power of Evolution

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Hi-V560M/5A

Specification

ITEM			Hi-V560M	Hi-V560M/5A	
TABLE	Size (length x width)		mm [in]	1,250 × 600 [49.2x23.6]	1,250 × 600 [49.2x23.6]
	Max. load on table		kgf [lbs]	800 [1,764]	250 [551]
	Table type			T-slot	T-slot
TRAVEL	Table longitudinal	X	mm [in]	1,000 [39.4]	1,000 [39.4]
	Table cross	Y		560 [22.0]	560 [22.0]
	Spindle head verticle	Z		450 [17.7]	450 [17.7]
	Tilting	A	degree	-	150(+30~-120)
	Rotating	C		-	360
	Distance from column to spindle center			370 [14.6]	370 [14.6]
	Distance from table surface to spindle nose			160 ~ 610 [6.3~24]	50 ~ 500 [2.0~19.7]
SPINDLE	Taper			HSK-A63	HSK-A63
	Speed	STD	rpm	24,000	24,000
		OPT		40,000	40,000
	Power	STD	kw [hp]	33/25 [44.3/33.5]	33/25 [44.3/33.5]
		OPT		26/18 [34.9/24.1]	26/18 [34.9/24.1]
	Torque	STD	kgf-m [ft-lbs]	9.8 [70.9]	9.8 [70.9]
OPT		1.68 [12.2]		1.68 [12.2]	
Spindle Drive		STD	Built-in	Built-in	
FEED	Rapid	X,Y axis	m/min [ipm]	50 [1,969]	50 [1,969]
		Z axis		40 [1,575]	40 [1,575]
	Tilting	A	rpm	-	70
	Rotating	C		-	150
Cutting feed rate			m/min [ipm]	40 [1,575]	40 [1,575]
ATC	Type			twin arm	twin arm
	Tool storage capacity	STD	EA	24	24
		OPT			
	Max. tool diameter		mm [in]	100 [3.9]	100 [3.9]
	Max. tool diameter (without adjacent tool)			140 [5.5]	140 [5.5]
	Max. tool length			300 [11.8]	300 [11.8]
	Max. tool weight		kgf [lbs]	8 [17.6]	8 [17.6]
Tool selection type			Fixed address	Fixed address	
Tool change time	tool to tool chip to chip	sec.	2.6	2.6	
			5.5	5.5	
MOTOR	Spindle	Main	kw [hp]	33/25 [44.3/33.5]	33/25 [44.3/33.5]
	Feed	X / Y		8.5/8.5 [11.4/11.4]	8.5/8.5 [11.4/11.4]
		Z / B		8.5 [11.4]	Z/A/C 8.5/8.9/10.9 [11.4/11.9/14.6]
Coolant					
APC	Pallet change type				
	Pallet change time		sec.		
Coolant through spingle (Option)				30BAR	30BAR
Rigid tapping				STD	STD
Electric capacity			kVA	56.5	56.5
Floor space			mm [in]	2,550 × 3,130 [100.4x123.2]	2,800 × 3,130 [110.2x123.2]
Slide way				LM guide	LM guide
Machine weight			kgf [lbs]	10,000 [22,046]	12,000 [26,455]
Controller			STD	SIEMENS 840D	SIEMENS 840D
			OPT		

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