

VX510M / VX660M



Vertical Machining Center

The most advanced compact design
- Next Generation Machining Center

Hyundai-Kia Machine vertical machining center series accomplished super power heavy duty cutting with high accuracy, high rigidity and high precision, based on minimized heat distortion super precision spindle with angular contact ball bearing and rigid mechanism. Hyundai-Kia Machine vertical machining center series could be born because traditions of long time machine builder, his Know-How and mixture of newly developed technology.

			VX510M	VX660M
Table Size (length x width)		mm [in]	1,200 × 500 [47.2x19.7]	1,600 × 650 [63x25.6]
Table Load		kgf [lbs]	800 [1,764]	1,300 [2,866]
Travel	X	mm [in]	1,060 [41.7]	1,400 [55.1]
	Y		510 [20.1]	660 [26]
	Z		635 [25.0]	635 [25]
Spindle Taper		mm [in]	BBT # 40	BBT # 40
Spindle Speed	STD	rpm	12,000	12,000
Spindle Power	Main	kw [hp]	22/18.5 [29.5/24.8]	26/22 [34.9/29.5]
Rapid Traverse	X,Y axis	m/min [ipm]	36 [1,417]	36 [1,417]
	Z axis		30 [1,181]	30 [1,181]
Tool Storage Capacity	STD	EA	24	24
	OPT		30	30

Design and Specifications are subject to change without prior notice.

**HYUNDAI-KIA MACHINE
AMERICA CORP.**

Power of Evolution

www.Hyundai-KiaMachine.com



VX510M - VX660M

Specification

ITEM			VX510M	VX660M	
TABLE	Size (length x width)		mm [in]	1,200 × 500 [47.2x19.7]	1,600 × 650 [63x25.6]
	Max. load on table		kgf [lbs]	800 [1,764]	1,300 [2,866]
	Table type			T-slot	T-slot
TRAVEL	Table longitudinal	X	mm [in]	1,060 [41.7]	1,400 [55.1]
	Table cross	Y		510 [20.1]	660 [26]
	Spindle head verticle	Z		635 [25.0]	635 [25]
	Tilting	A	degree	-	-
	Rotating	C		-	-
	Distance from column to spindle center			615 [24.2]	765 [30.1]
	Distance from table surface to spindle nose			150 ~ 785 [5.9~30.9]	150 ~ 785 [5.9~30.9]
SPINDLE	Taper			BBT # 40	BBT # 40
	Speed	STD	rpm	12,000	12,000
		OPT		15,000	15,000
	Power	STD	kw [hp]	25/22 [33.5/29.5]	25/22 [33.5/29.5]
		OPT		18.5/15 [24.8/20.1]	
	Torque	STD	kgf-m [ft-lbs]	17 [123]	17 [123]
OPT					
Spindle Drive		STD	Built-in	Built-in	
FEED	Rapid	X,Y axis	m/min [ipm]	36 [1,417]	36 [1,417]
		Z axis		30 [1,181]	30 [1,181]
	Tilting	A	rpm	-	-
	Rotating	C		-	-
Cutting feed rate			m/min [ipm]	15 [591]	15 [591]
ATC	Type			twin arm	twin arm
	Tool storage capacity	STD	EA	24	24
		OPT		30	30
	Max. tool diameter		mm [in]	95 [3.7]	95 [3.7]
	Max. tool diameter (without adjacent tool)			150 [5.9]	150 [5.9]
	Max. tool length			250 [9.8]	250 [9.8]
	Max. tool weight		kgf [lbs]	8 [17.6]	8 [17.6]
	Tool selection type			Random	Random
Tool change time	tool to tool chip to chip	sec.	2.6	3.0	
			6.6	7.0	
MOTOR	Spindle	Main	kw [hp]	22/18.5 [29.5/24.8]	26/22 [34.9/29.5]
	Feed	X / Y		3/3 [4/4]	4/4 [5.4/5.4]
		Z / B		4 [5.4]	4 [5.4]
Coolant					
APC	Pallet change type				
	Pallet change time		sec.		
Coolant through spingle (Option)				30BAR	30 bar
Rigid tapping				STD	
Electric capacity			kVA	30	30
Floor space			mm [in]	3,220 × 2,560 [126.8x100.8]	3,500 × 2,560 [137.8x100.8]
Slide way				LM guide	LM guide
Machine weight			kgf [lbs]	7,500 [16,534]	9,500 [20,944]
Controller			STD	FANUC 21iM	FANUC 21iM
			OPT		

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