

KV90 / KV90L



Vertical Machining Center

Rigid Construction for Heavy Duty Cutting Capability

- High-power and heavy duty cutting main spindle (4,500rpm / 8,000rpm)
- 4 ways, 8 surfaces restraint guide system
- A high-precision cam type ATC

			KV90	KV90L
Table Size (length x width)		mm [in]	2,400 × 900 [94.5x35.4]	2,400 × 900 [94.5x35.4]
Table Load		kgf [lbs]	2,800 [6,173]	2,800 [6,173]
Travel	X	mm [in]	2,000 [78.7]	2,450 [96.5]
	Y		900 [35.4]	900 [35.4]
	Z		850 [33.5]	850 [33.5]
Spindle Taper		mm [in]	NT # 50	NT # 50
Spindle Speed	STD	rpm	4,500	4,500
Spindle Power	Main	kw [hp]	22/18.5 [29.5/24.8]	22/18.5 [29.5/24.8]
Rapid Traverse	X,Y axis	m/min [ipm]	12 [472]	12 [472]
	Z axis		12 [472]	12 [472]
Tool Storage Capacity	STD	EA	20	20
	OPT		30	30

Design and Specifications are subject to change without prior notice.

**HYUNDAI-KIA MACHINE
AMERICA CORP.**

Power of Evolution

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Specification

ITEM			KV90	KV90L	
TABLE	Size (length x width)		mm [in]	2,400 × 900 [94.5x35.4]	2,400 × 900 [94.5x35.4]
	Max. load on table		kgf [lbs]	2,800 [6,173]	2,800 [6,173]
	Table type			T-slot	T-slot
TRAVEL	Table longitudinal	X	mm [in]	2,000 [78.7]	2,450 [96.5]
	Table cross	Y		900 [35.4]	900 [35.4]
	Spindle head verticle	Z		850 [33.5]	850 [33.5]
	Tilting	A	degree	-	-
	Rotating	C		-	-
	Distance from column to spindle center			950 [37.4]	950 [37.4]
	Distance from table surface to spindle nose			160 ~ 1,010 [6.3~39.8]	160 ~ 1,010 [6.3~39.8]
SPINDLE	Taper			NT # 50	NT # 50
	Speed	STD	rpm	4,500	4,500
		OPT		8,000	8,000
	Power	STD	kw [hp]	22/18.5 [29.5/24.8]	22/18.5 [29.5/24.8]
		OPT			
	Torque	STD	kgf-m [ft-lbs]	109.5 [792]	109.5 [792]
OPT		79.7 [576.5]		79.7 [576.5]	
Spindle Drive		STD	Gear head	Gear head	
FEED	Rapid	X,Y axis	m/min [ipm]	12 [472]	12 [472]
		Z axis		12 [472]	12 [472]
	Tilting	A	rpm	-	-
	Rotating	C	rpm	-	-
	Cutting feed rate			m/min [ipm]	5 [197]
ATC	Type			twin arm	twin arm
	Tool storage capacity	STD	EA	20	20
		OPT		30	30
	Max. tool diameter		mm [in]	125 [4.9]	125 [4.9]
	Max. tool diameter (without adjacent tool)			240 [9.5]	240 [9.5]
	Max. tool length			300 [11.8]	300 [11.8]
	Max. tool weight		kgf [lbs]	20 [44.1]	20 [44.1]
	Tool selection type			Random	Random
Tool change time	tool to tool chip to chip	sec.	3.5	3.5	
			10.0	10.0	
MOTOR	Spindle	Main	kw [hp]	22/18.5 [29.5/24.8]	22/18.5 [29.5/24.8]
	Feed	X / Y		4/6 [5.4/8.1]	4/6 [5.4/8.1]
		Z / B		7 [9.4]	7 [9.4]
Coolant					
APC	Pallet change type				
	Pallet change time		sec.		
Coolant through spingle (Option)				30 bar	30 bar
Rigid tapping				STD	STD
Electric capacity			kVA	35	35
Floor space			mm [in]	5,090 × 4,237 [200.4x166.8]	6,000 × 4,237 [236.2x166.8]
Slide way				Box way	Box way
Machine weight			kgf [lbs]	18,000 [39,683]	18,300 [40,344]
Controller			STD	FANUC 18iMB	FANUC 18iMB
			OPT		