

KH50G / KH63G



Horizontal Machining Center

Accomplished Revolutionary Productivity

- Next Generation High Performance Machining Center

Horizontal Machining Center KH Series accomplished super power heavy duty cutting with high performance, based on minimized heat distortion, super precision spindle and rigid mechanism. KH Series could be born because traditions of long time machine builder, his Know-How and mixture of newly developed technology.

			KH50G	KH63G
Table Size (length x width)		mm [in]	500 x 500 [19.7 x 19.7]	630 x 630 [24.8 x 24.8]
Table Load		kgf [lbs]	800 [1,764]	1,000 [2,205]
Travel	X	mm [in]	760 [29.9]	950 [37.4]
	Y		705 [27.8]	825 [32.5]
	Z		650 [25.6]	760 [29.9]
Spindle Taper		mm [in]	NT #50	NT #50
Spindle Speed	STD	rpm	4,500	4,500
	OPT		8,000	8,000
Spindle Power	STD	kw [hp]	18.5/15 [24.8/20.1]	22/18.5 [29.5/24.8]
	OPT			
Rapid Traverse	X, Y axis	m/min [ipm]	20 [787]	20 [787]
	Z axis		20 [787]	20 [787]
Tool Storage Capacity	STD	EA	40	40
	OPT		60, 90, 120	60, 90, 120

Design and Specifications are subject to change without prior notice.

**HYUNDAI-KIA MACHINE
AMERICA CORP.**

Power of Evolution

www.Hyundai-KiaMachine.com



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Specification

ITEM			KH50G	KH63G	
TABLE	Size (length x width)		500 x 500 [19.7 x 19.7]	630 x 630 [24.8 x 24.8]	
	Max. load on table		800 [1,764]	1,000 [2,205]	
	Max. work size		2-Ø900xH780 [Ø35.4xH30.7]	2-Ø1,120xH880 [Ø44.1 x H34.6]	
	Table type		Tap Hole	Tap Hole	
	Min. indexing angle	STD	degree	1	1
OPT		0.001		0.001	
TRAVEL	Table longitudinal	X	760 [29.9]	950 [37.4]	
	Table cross	Y	705 [27.8]	825 [32.5]	
	Spindle head verticle	Z	650 [25.6]	760 [29.9]	
	Distance between spindle center to table top		mm [in]	0~705 [0~27.8]	0~825 [0~32.5]
	Distance between table center to spindle nose			135~785 [5.3~30.9]	175~935 [6.9~36.8]
SPINDLE	Taper		NT #50	NT #50	
	Speed	STD	rpm	4,500	4,500
		OPT		8,000	8,000
	Power	STD	kw [hp]	18.5/15 [24.8/20.1]	22/18.5 [29.5/24.8]
		OPT			
	Torque	STD	kgf-m [ft-lbs]	91.9 [664.7]	109.3 [790.6]
OPT		67 [484.6]		79.7 [576.5]	
Spindle drive		STD	2 step geared	2 step geared	
FEED	Rapid	X,Y axis	m/min [ipm]	20 [787]	20 [787]
		Z axis		20 [787]	20 [787]
	Cutting feed rate			5 [197]	5 [197]
ATC	Type		tw in arm	tw in arm	
	Tool storage capacity	STD	EA	40	40
		OPT		60, 90, 120	60, 90, 120
	Max. tool diameter		mm [in]	110 [4.3]	110 [4.3]
	Max. tool diameter (without adjacent tool)			245 [9.6]	245 [9.6]
	Max. tool length		400 [15.8]	600 [23.6]	
	Max. tool weight		kgf [lbs]	20 [44] 1/35 [77]	20 [44] 1/35 [77]
	Tool selection type			Fixed address	Fixed address
Tool change time	tool to tool		sec.	5.5	5.5
	chip to chip			9.0	9.0
APC	Pallet change type		Shuttle	Shuttle	
	Pallet change time		sec.	18.0	25.0
MOTOR	Spindle	Main	kw [hp]	18.5/15 [24.8/20.1]	22/18.5 [29.5/24.8]
	Feed	X / Y		4/4 [5.4/5.4]	4/4 [5.4/5.4]
		Z / B		4/1.6 [5.4/2.1]	4/1.6 [5.4/2.1]
	Coolant				
Coolant through spigle (Option)			30 bar 70 bar	30 bar 70 bar	
Rigid tapping			STD	STD	
Electric capacity			kVA	40	40
Floor space			mm [in]	2,850 x 4,815 [112.2 x 189.6]	3,175 x 5,320 [125 x 209.4]
Slide way				Box way	Box way
Machine weight			kgf [lbs]	12,000 [26.455]	14,000 [30.864]
Controller			STD	FANUC 18iMB	FANUC 18iMB
			OPT		

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