

### 3-2 Machine Specifications(KIA CENTER H50)

Classification	Specifications	Unit	Metric
Table	Pallet dimensions	mm(in)	50×500(20×20)
	Index angle	(min. 1°)	360
	Table index angle calling method		Absolut shortcut. B3-digit
	Load on pallet	kgf(lbs)	800(1,760)
	Distance from spindle center to table surface	mm(in)	0~705(0~27.8)
	Distance from spindle nose to table center	mm(in)	135~785(5.3~31)
Stroke	Longitudinal travel(X)	mm(in)	760(30)
	Vertical travel(Y)	mm(in)	705(28)
	Cross travel(Z)	mm(in)	650(25.6)
Spindle head	Spindle nose		NT50
	Spindle speed change		Fully automatic and stepless
	Spindle speed	rpm	20~4,500
Feed	Last input increment	mm(in)	0.001(0.0001)
	Cutting feed rate	mm/min	1~5,000
		(in/min)	(0.01~200)
	Jog feed	mm/min	(0~5,000)
		(in/min)	(0~200)
Rapid feed rate	mm/min (in/min)	20,000 (790)	
Motors	Spindle motor(Ac 50% ED)	kw(HP)	18.5(25)
	Hydraulic motor	kw(HP)-P	2.2(3)~4
	Lubrication motor	W-p(HP)-P	17~20(0.02)
	Feed motor for X-axis		FANUC MODEL a22
	Feed motor for Y-axis		FANUC MODEL a22B
	Feed motor for Z-axis		FANUC MODEL a22
	Table index motor	kw(HP)	1.0(1.3)
	Spindle cooling motor	kw(HP)-P	0.4(0.5)~4
ATC	Number of tools	pcs.	40
	Max. tool diameter	mm(in)	φ 110(φ 4.4)
	Max. tool length	mm(in)	20 (44)
	Max. tool weight	kgf(lbs)	Random/Bidirection, fixed
	Tool call system		address T-2 digit, T-4 digit (120 tools)
APC	Method of change		Parallel shuttle type
	Machine weight	kgf(lbs)	12,000(26,000)

Machine is designed in accordance with KS(Korean Standard)