

Machine standard specification

		HPC-30Vb-2AQC
Item	Type	CB
Travel	X axis stroke	350mm(13.8")
	Y axis stroke	290mm(11.4")
	Z axis stroke	320mm(12.6")
Table	Distance from table to spindle nose	180mm~500mm(7.1"~19.7")
	Distance from column surface to spindle	357mm(14.1")
	Working area(X×Y)	500mm×300mm(19.7×11.8")
	Max.load capacity	50kg+50kg (100kg+100kg) 110lbs+110lbs (220lbs+220lbs)
	Pallet change time	1.7sec (2.4sec)
Spindle	Spindle speed	50~15000min ⁻¹
	Max. tapping speed	6000min ⁻¹
	Spindle diameter	50mm(1.97")
	Taper	7/24 Taper No.30
Feed rate	Rapid traverse(X,Y,Z)	56000mm/min(2205 IPM)
	Cutting feedrate(X,Y,Z)	1~10000mm/min(394 IPM)
ATC	Tool shank	BT30
	No. of tools	20
	Pull stud	MAS- P30T-1(JIS-30P/Oil-hole specification)
	Max. tool diameter	80mm(3.1") ※1
	Max. tool length	200mm(7.9")
	Max.tool capacity	3kg (6.6lbs)*2
	Tool change time(T-T)	0.7sec
Tool change time(C-C)	1.7sec	
Motor	Spindle motor	3.7kW(15min)/ 2.2kW(cont)
	Axis	2.5kW(X,Y,Z)
Machine dimensions	Height	2380mm(93.7")
	Floor space	1500mm×2695mm(59.1×106.1)
	Weight	3200kg(7040 lbs)
Accuracy	Positioning accuracy	±0.005mm(±0.0002")/Full stroke
	Positioning repeatability	±0.003mm(±0.0001")
Others	Power supply	AC200/220V±10%, 50/60Hz, 9kVA
	Air supply	0.4MPa, 100NL/min
CNC control		FANUC 21i-MB

※1 The maximum tool diameter is 80mm(3.15"). Set the FIX code when using the tool which tool diameter more than 60mm(2.36").
 ※2 Tool moment should be under 2.0Nm(0.2kgm). In case of over 1.0Nm (0.1kgm) should be FIX code.

Standard specifications for CNC control

CNC control	FANUC21i-MB
Controlled axis	Controlled axis(each path) : 3 axes
	Simultaneously controlled axes : Simultaneous 2
	Least input increment : 0.001mm,0.0001inch
	Fine Acc & Dec control
	HRV control
	Machine lock : All axes/each axis
	Emergency stop
	Stored stroke check 1
	Mirror image
	Operation
Interpolation functions	Positioning : G00
	Linear interpolation
	Circular interpolation
	Exact stop : G61
	Dwell
	Skip
	Reference position return : G28 2nd reference position return : G30
Feed function	Rapid traverse override : F0,25,50,100
	Manual handle feed : 0.001/0.01/0.1/0.2mm
	Feedrate override : 0~150%
	Jog override : 0~1200mm/min
Program input	Max. programmable dimension : ±99999.999
	Decimal point programming
	Absolute/incremental programming
	Optional block skip
	Coordinate system setting
	Sub program call
Workpiece coordinate system : G52~G59	
Auxiliary/Spindle speed function	Auxiliary function : M2-digit
	Spindle speed function : S5-digit
Accuracy compensation function	Rigid tapping
	Backlash compensation Stored pitch error compensation
Tool function	Tool function : T2-digit
	Cutter compensation C
Editing operation	Part program storage length : 20m
	Number of registerable programs : 63
Setting and display	Self-diagnosis function
	Alarm display
Data input/output	Memory card input/output, RS232C
Interface function	Embedded Ethernet
Others	Control unit incorporated type display unit : 9.5"LCD

Option for CNC control

Controlled axes expansion(total)	Max 4 axes
Helical interpolation	
Advanced preview control	
AI advanced preview control	
Polar coordinate command	
Addition of workpiece coordinate system par	48 pairs
Programmable data input	
Custom macro B	
Coordinate system rotation	
Tool offset memory C	
Addition of part program storage length	40/80/160/320/640/1280
Background editing	
Extended part program editing	
Run hour and part count display	