

2.5 Standard Machine Specifications and Standard Accessories  
 2.5.1 Standard Specification of Main Body

Description		
Machining Range	Max. turning bar diameter	SA38
	Max. turning bar length	Ø38mm
	Max. drilling/tapping, main	210mm(250mm)
	Max. chucking diameter, sub	Ø12/M10
	Max. drilling/tapping, back-end face	Ø38
	Max. drilling/tapping, cross	Ø10/M8
	Max. disc-mill diameter, cross(cutter)	Ø10/M8
Machine Capability	Max. spindle speed, main	Ø40
	Max. spindle speed, sub	8,000rpm
	Max. spindle speed, cross	8,000rpm
	Tool number of tool	8,000rpm
	OD/ID/Cross tool	18 (20)
	Front-end face tools(SUB)	OD 5/ID 3(5)/Cross 4
	Back-end face tools(4ea)	SUB Live tool 2(std:live:2)
	Bite shank	Std : fixed 4, Opt :live2~3
	Rapid Traverse	□16×120mm
	Controllable axes	All axes 32M/min
	Spindle positioning, main	7 axes
	Spindle positioning, sub	1° /1000
		1° /1000
		5.5/7.5kw
Motor	Main spindle	5.5/7.5kw
	Sub spindle	1.5/2.2kw
	Cross drill/mill unit	0.55/1.1kw
	Back-end face tools	1.0kw
	Rotary guide bushing unit	1.1kw
	Axis: Z1, Z2	1.0kw
	Axis: X1, X2, Y	1.0kw
	Coolant pump	0.45kw(Opt:0.9kw)
	Lubrication pump	0.04kw
		200ℓ ,Chip conveyor(200ℓ )
Dimension	Coolant capacity	1,000mm
	Center height	2,140x1,375×1,670mm
	Length×width×height	3,500kg
	Net weight	

Specification may be changed without prior notice

## 2.5.2 NC Controller (Standard specifications)

Name	Specifications	Remarks
NC Unit	FANUC-KOREA (FS18i-TB)	
No.of controlled axis	7 axis	
Axis Name	X1,Z1,Y,C1,X2,Z2,C2	
Axis combination	X1-Z1(Simultaneous control)	
	X2-Z2(Simultaneous control)	
	X1-Z2(Simultaneous control)	
	X1-Y(Simultaneous control)	
	Z1-Y(Simultaneous control)1	
	X1(T1 Tool index & offset)	
	X2(T2 Tool index & offset)	
Least input increment	0.001mm(op,0.0001mm)	X-axis:Diameter
Least command increment	X-axis : 0.0005mm other axis : 0.001mm (op,X-axis:0.0005mm other axis: 0.0001mm)	X-axis:Diameter
Max programmable value	± 8 digits	
Interpolation function	Linear/Circular	
Rapid traverse rate	32m/min	
Feed rate	1 to 6000mm/min	
Feed rate override	0 to 150%,10%step	
Dwell	G40 0to 9999.999	
Coordinate system shift	G50(except Z1 axis) G150(Z1 axis)	
ABS/INC command	X,Z,Y,C : Absolute U,W,V,H : Incremental	
Tool offset	±6 digits (option +-7 digits)	
No.of tool offset	64 sets	
CRT/MDI	10.4" LCD Color	
Display language	English/Koreans	
Part program	80M	
Storage length	(op 160-1280m)	
Programs	63 programs	
Miscellaneous function	M5 digits	
Spindle function	S4 digits	
Tool function	T4 digits	