

Machine Specifications

ITEM	SIRIUS-1250				SIIRUS-1750				SIRIUS-2500				
	8 tool		40 tool		40 tool		60 tool		Short Bed		Long Bed		
	8,000	12,000	8,000	12,000	12,000	15,000	12,000	15,000	8,000	12,000	8,000	12,000	
Travel													
Stroke (X / Y / Z)	mm(inch)	2,500 (98.43") / 1,250 (49.21") / 750 (29.53")				3,000 (118.11") / 1,750 (68.90") / 800 (31.50")				3,100 (122.05") / 2,300 (90.55") / 900 (35.43")		4,000 (157.48") / 2,300 (90.55") / 900 (35.43")	
Distance from Table Surface to Spindle Gauge Plane	mm(inch)	250 (9.84") ~ 1,000 (39.37")				200 (7.87") ~ 1,000 (39.37")				250 (9.84") ~ 1,150 (45.28")			
Distance between Columns to spindle Center	mm(inch)	180 (7.09")				435 (17.13")				200 (7.87")			
Distance between Columns	mm(inch)	1,520 (59.84")				2,000 (78.74")				2,300 (90.55")		2,400 (94.49")	
Table													
Working Surface	mm(inch)	2,800 (110.24") x 1,250 (49.21")				3,200 (126.00") x 1,750 (68.90")				3,300 (129.92") x 2,000 (78.74")		4,200 (165.35") x 2,000 (78.74")	
Table Loading Capacity	kg _r (lb _f)	5,000 (11,023)				10,000 (22,046)				10,000 (22,046)		15,000 (33,069)	
Table Surface Configuration (T slots WxP – No. of slots)	mm(inch)	22 (0.87") x 160 (6.3") -7ea				22 (0.87") x 200 (7.87") -8ea				22 (0.87") x 200 (7.87") -9ea			
Spindle													
Max. Spindle Speed	rpm	8,000	12,000	8,000	12,000	12,000	15,000	12,000	15,000	8,000	12,000	8,000	12,000
Spindle Motor	kW(HP)	30 (40.23) / 25 (33.53)				30 (40.23) / 25 (33.53)				30 (40.23) / 25 (33.53)			
Type of spindle Taper Hole	-	ISO#50, 7/24 Taper (BBT-50)				ISO#50, 7/24 Taper (BBT-50)				ISO#50, 7/24 Taper (BBT-50)			
Spindle Bearing Inner Diameter	mm(inch)	Ø100 (3.94")				Ø100 (3.94")				Ø100 (3.94")			
Method of Spindle Lubrication & Cooling	-	Oil Jet Lub. + Jacket Cooling				Oil Jet Lub. + Jacket Cooling				Oil Jet Lub.+ Jacket Cooling			
Feedrate													
Rapid Speed (X / Y / Z)	m/min(ipm)	16 (630) / 16 (630) / 16 (630)				16 (630) / 16 (630) / 16 (630)				16 (630) / 16 (630) / 16 (630)		10 (394) / 16 (630) / 16 (630)	
Feedrate (X / Y / Z)	mm/min(ipm)	1 (0.04) ~ 8,000 (315)				1 (0.04) ~ 8,000 (315)				1 (0.04) ~ 8,000 (315)			
ATC													
Type of Tool Shank	-	BBT-50 (Opt. : CAT-50)				BBT-50 (Opt. : CAT-50)				BBT-50 (Opt. : CAT-50)			
Type of Pull Stud	-	90° Type				90° Type				90° Type			
Tool Storage Capacity	ea	8		40		40		60		40			
Max. Tool Diameter [Without Adjacent Tools]	mm(inch)	Ø200 (7.87") / Ø200 (7.87")		Ø120 (4.72") / Ø200 (7.87")		Ø120 (4.72") / Ø200 (7.87")				Ø120 (4.72") / Ø200 (7.87")			
Max. Tool Length	mm(inch)	350 (13.78")				400 (15.75")				450 (17.72")			
Max. Tool Weight	kg _r (lb _f)	20 (44.09)				20 (44.09)				20 (44.09)			
Method of Tool Selection	-	Fixed Address		Memory random		Memory random				Memory random			
Method of Operation (Magazine / Swing Arm)	-	Servo Motor / Armless		Servo Motor / Servo Motor		Servo Motor / Servo Motor				Servo Motor / Servo Motor			
Motor													
Feed Motor (X / Y / Z)	kW(HP)	7.0 (9.38) / 7.0 (9.38) / 7.0 (9.38)				9.0 (12.06) / 6.0 (8.04) / 9.0 (12.06)				9.0 (12.06) / 6.0 (8.04) / 9.0 (12.06)			
Coolant Motor (Spindle)	kW(HP)	0.4 (0.54)				0.4 (0.54)				0.4 (0.54)			
Spindle Cooler (50 / 60Hz) – Inverter Type	kW(HP)	5.0 (6.71) / 5.6 (7.51)	8.0 (10.73) / 8.9 (11.94)	5.0 (6.71) / 5.6 (7.51)	8.0 (10.73) / 8.9 (11.94)	8.0 (10.73) / 8.9 (11.94)	5.0 / 5.6 & 8.0 / 8.9 (6.71 / 7.51 & 10.73 / 11.94)	8.0 (10.73) / 8.9 (11.94)	5.0 / 5.6 & 8.0 / 8.9 (6.71 / 7.51 & 10.73 / 11.94)	5.0(6.71) / 5.6(7.51)	8.0(10.73) / 8.9(11.94)	5.0 (6.71) / 5.6 (7.51)	8.0 (10.73) / 8.9 (11.94)
Power Source													
Electric Power Supply	kVA	75				75				75			
Compressed Air Supply (Pressure X Consumption)	-	0.5 ~ 0.7MPa x 1,870Nℓ/min				0.5 ~ 0.7MPa x 1,870Nℓ/min				0.5 ~ 0.7MPa x 1,870Nℓ/min			
Tank Capacity													
Spindle Cooling / Lubrication	ℓ (gal)	60 (15.85) / 12(3.17)				60 (15.85) / 12(3.17)				60 (15.85) / 12(3.17)			
Coolant	ℓ (gal)	450 (118.88)				850 (224.55)				850 (224.55)			
Machine Size													
Height	mm(inch)	3,960 (155.91")				5,020 (197.64")				4,566 (179.76")			
Floor Space (Length x Width)	mm(inch)	7,305x3,975 (287.60"x 156.50")		7,305x4,145 (287.60"x 163.19")		8,840 x 5,510 (348.03" x 216.92")				8,830 x 5,000 (347.64" x 196.85")		10,770 x 5,000 (424.02" x 196.85")	
Weight	kg _r (lb _f)	24,000 (69,887)		25,900 (68,784)		39,000 (85,980)		39,650 (87,413)		41,350 (91,161)		45,350 (99,980)	
NC Controller						Fanuc 31i-B							