

Machine Specifications

	Items	Unit	PROTEC						
			9NA		9NB		C	9N	
Capacity	Swing over bed	mm (in)	Ø 950 (37.4)						
	Swing over carriage	mm (in)	Ø 630 (24.8)						
	Max. turning length	mm (in)	1845 (73)	2845 (112)	3845 (151)	4845 (191)	5845 (230)	6845 (269)	7845 (309)
	Distance between centers	mm (in)	2000 (79)	3000 (118)	4000 (157)	5000 (197)	6000 (236)	7000 (275)	8000 (315)
	Load capacity between centers	kg (lbs)	5000 (11000)						
Spindle	Spindle bore	mm (in)	Ø 105 (4)		Ø 176 (7)		Ø 254 (10)		
	Spindle nose	-	A2-11"		A2-11"		A2-15"		
	Spindle speeds	rpm	2-1000		3-800		2-630		
	Spindle speed range	step	Manual 3			Manual 2			
	Spindle center taper	-	MT#6						
Carriage	Type of tool post	-	Manual H-4 (Curvic tool post)						
	Tool size	mm (in)	32 x 32 (1.26 x 1.26)						
	X-axis travel(cross)	mm (in)	535(21.1)						
	Z-axis travel(longitudinal)	mm (in)	1845 (73)	2845 (112)	3845 (151)	4845 (191)	5845 (230)	6845 (269)	7845 (309)
	X-axis rapid traverse	m/min	4 (157ipm)						
	Z-axis rapid traverse	m/min	6 (236ipm)						
Tailstock	Tailstock quill diameter	mm (in)	Ø 112 (4.4)			Ø 160 (6.3)			
	Tailstock spindle taper	-	MT#6						
	Max. quill travel	mm (in)	250 (9.8)						
Bed	Bed width	mm (in)	630 (24.8)						
	Bed length	m/min	3175 (146)	4715 (186)	5715 (225)	6715 (264)	7715 (304)	8715 (343)	9715 (382)
Motor	Spindle motor (30 min/cont.)	kW (HP)	AC 22/18.5			AC26/22 (35/30)			
	X-axis servo motor (Torque/Power)	Nm/kW	12/1.8 (2.4HP)						
	Z-axis servo motor (Torque/Power)	Nm/kW	30/4.2 (5.6HP)						
Machine Weight		kg (lbs)	7010 (15450)	8090 (17830)	9170 (20220)	10280 (22660)	11360 (25040)	11450 (25240)	13530 (29830)
CNC system		-	FANUC 21i-TB						

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Standard Accessories

- > CNC system (FANUC 21i-TB)
- > 4-jaw independent chuck
- > Built-in live tailstock spindle (model 9NB & 9NC)
- > 2-speed tailstock spindle
- > Curvic tool post (Manual H-4)
- > Main drive motor & electrical equipments
- > Coolant system
- > Work light
- > Center sleeve
- > Center MT#6/Live center MT#6
- > Full length rear chip guard and single front door
(for BC 2000, 3000)
- > Foundation bolts and liners
- > Tool box with necessary tools

Optional Accessories

- > 3-jaw scroll chuck \varnothing 14" to 36"
- > 4-jaw independent chuck \varnothing 18" to 36"
- > Steady rest (metal jaws) \varnothing 50-250 mm (2-10")
 \varnothing 250-450 mm (10-17.7"), \varnothing 450-650 mm (17.7-25.6")
- > Steady rest (roller jaws) \varnothing 50-250 mm (2-10")
 \varnothing 250-450 mm (10-17.7"), \varnothing 450-650 mm (17.7-25.6")
- > Follow rest \varnothing 20-200 mm (0.8-7.9")
- > Auto. tool post H-4, V-8
- > Face plate \varnothing 850 mm (33.5")
- > Tool slide
- > Pipe center
- > Full length rear chip guard (BC 4000 to 8000)