

## Machine Specifications

Items		Unit	PROTEC-6N		PROTEC-7NA		PROTEC-7NB
<b>Capacity</b>	Swing over bed	mm(in)	ø 650 (25.6)		ø 750 (29.5)		
	Swing over carriage	mm(in)	ø 380 (15)		ø 480 (18.9)		
	Max. turning diameter	mm(in)	ø 650 (25.6)		ø 750 (29.5)		
	Distance between centers	mm(in)	1000 (39.4)	1500 (59)	2000 (78.7)	3000 (118.1)	4000 (157.5)
	Load capacity between centers	kg (lbs)	3000 (6600)				
<b>Spindle</b>	Spindle bore	mm(in)	ø 85 (3.3)		ø 105 (4.1)		ø 176 (6.9)
	Spindle nose	-	A1-11"		A1-11"		A2-11"
	Spindle center taper	-	MT#5		MT#6		
	Spindle speeds	rpm	3~1400		3~1250		3~1000
	Spindle speed range	-	Manual 2-step				
<b>Carriage</b>	Type of tool post	-	Manual H-4 (Curvic tool post)				
	Tool size	mm(in)	25 x 25 (1 x 1)		32 x 32 (1.26 x 1.26)		
	X-axis travel (cross)	mm(in)	380 (15)		425 (16.7)		
	Z-axis travel (Longitudial)	mm(in)	1070 (42.1)	1570 (61.8)	2070 (81.5)	3070 (120.9)	-
			935 (36.8)	1435 (56.5)	1935 (76.2)	2935 (115.5)	3935 (154.9)
	X-axis rapid traverse	m/min (ipm)	3 (118)				
Z-axis rapid traverse	m/min (ipm)	6 (236)					
<b>Tailstock</b>	Tailstock quill diameter	mm(in)	ø 90 (3.5)		ø 112 (4.4)		
	Tailstock spindle taper	-	MT#5		MT#6		
	Max. quill travel	mm(in)	200 (7.9)		200 (7.9)		
<b>Bed</b>	Bed width	mm(in)	445 (17.5)		500 (19.7)		
	Bed length	PROTEC-6N	2600 (102.4)	3100 (122)	3600 (141.7)	4600 (181)	-
		PROTEC-7N	2505 (98.6)	3005 (118.3)	3505 (138)	4505 (177.4)	5505 (216.7)
<b>Motor</b>	Spindel motor (Cont./30 min)	kW (HP)	AC 7.5/11 (10/15)		AC 11/15 (15/20)		AC 15/18.5 (20/25)
	X-axis servo motor (Torque/Power)	Nm/kW	6/0.6				
	Z-axis servo motor (Torque/Power)	Nm/kW	12/1.0		22/1.5		
<b>Machine Weight</b>	PROTEC-6N	kg (lbs)	3300 (7300)	3750 (8300)	4100 (9040)	4700 (10400)	-
	PROTEC-7N		3470 (7650)	3920 (8640)	4220 (9300)	4870 (10730)	5520 (12200)
<b>CNC System</b>		-	FANUC 21i-T				

### Standard Accessories

- CNC system
- 3-jaw scroll chuck ø 300 mm (12")
- Curvic tool post (Manual H-4)
- Main drive motor & electrical equipments
- Coolant system
- Work light
- Center sleeve MT#5 x metric taper#100:6N
- Center sleeve MT#6 x taper 1/10:7N
- Center MT#5:6N, MT#6:7N
- Live center MT#5:6N, MT#6:7N
- Full length rear chip guard and single front door
- Foundation bolts and liners
- Tool box with necessary tools

### Optional Accessories

- 3-jaw scroll chuck ø 350 mm (14")
- 4-jaw independent chuck  
ø 460 mm (18"), ø 500 mm (20"):6N/7N, ø 600 mm (24"):7N
- Steady rest (metal or roller jaws)  
ø 50~300 mm (2~11.8"):6N  
ø 50~250 mm (2~10"), ø 250 ~ 450 mm (10~17.7"):7N
- Follow rest ø 30~150 mm (1.2 ~ 5.9"):6N  
ø 20~200 mm (0.8~7.9"):7N
- Auto. tool post H-4, V-8
- Pipe center MT#6 x 60°:7NB
- Face plate ø 670 mm (26"), ø 800 mm (32"):7N
- Tool slide