

Item		MULTUS U5000								
		1SC		1SW		2SC		2SW		
		1500	2000	1500	2000	1500	2000	1500	2000	
Capacity	Swing over saddle	mm (in.)		ø650 (25.59)				Upper: ø650 (25.59), Lower: ø320 (12.60)		
	Distance between centers	mm (in.)		1,500 (59.06)	2,000 (78.74)	1,500 (59.06)	2,000 (78.74)	1,500 (59.06)	2,000 (78.74)	
	Max machining dia	mm (in.)		ø650 (25.59)				Upper: ø650 (25.59) <sup>1</sup> , Lower: ø320 (12.60)		
	Max machining length	mm (in.)		1,500 (59.06)	2,000 (78.74)	1,500 (59.06)	2,000 (78.74)	1,500 (59.06)	2,000 (78.74)	
Travels	X axis	mm (in.)		695 (27.36)				Upper: 695 (27.36), Lower: 235 (9.25)		
	Z axis	upper: mm (in.)	1,600 (62.99)	2,100 (82.68)	1,600 (62.99)	2,100 (82.68)	1,600 (62.99)	2,100 (82.68)	1,600 (62.99)	2,100 (82.68)
		lower: mm (in.)	-				1,461 (57.52)	1,961 (77.20)	1,524 (60.00)	2,024 (79.69)
	Y axis	mm (in.)		300 (11.81) (±150 (5.91))						
	W axis	mm (in.)		-	1,554 (61.18)	2,054 (80.87)	-		1,500 (59.06)	2,000 (78.74)
	B-axis / indexing angle	degree		-30 to +210 (min controlled angle 0.001)						
	C-axis / indexing angle	degree		360 (min controlled angle 0.0001)						
Spindle	Spindle speed	min <sup>-1</sup>		30 to 3,000						
	Spindle speed ranges	2 auto ranges (2-speed motor coil switching)								
	Spindle nose shape	JIS A2-11								
	Taper bore	mm (in.)		ø112 (4.41)						
	Bearing dia	mm (in.)		ø160 (6.30)						
	Opposing spindle*2	Spindle speed	min <sup>-1</sup>		-		30 to 3,000		-	
Spindle speed ranges				-		2 auto ranges (2-speed motor coil switching)		-		
Spindle nose shape				-		JIS A2-11		-		
Taper bore		mm (in.)		-		ø112 (4.41)		-		
Bearing dia		mm (in.)		-		ø160 (6.30)		-		
Turret (tool spindle)	Type	H1				H1, Lower: V12				
	No. of tools	L / M: 1				Upper: L / M: 1, Lower: 12				
	Tool shank dimensions	mm (in.)		□25 (1 × 1)						
	ID tool shank diameter	mm (in.)		ø40 (1.57)						
	Milling tool spindle	min <sup>-1</sup>		50 to 12,000						
	Milling tool spindle speed ranges	2 auto ranges (2-speed motor coil switching)								
Feedrates	Feedrates	upper: m/min		X: 50, Z: 50, Y: 40	X: 50, Z: 40, Y: 40	X: 50, Z: 50, Y: 40	X: 50, Z: 40, Y: 40	X: 50, Z: 50, Y: 40	X: 50, Z: 40, Y: 40	
		lower: m/min		-				X: 25, Z: 40	X: 25, Z: 30	X: 25, Z: 40
	Feedrates W-axis	m/min		8 (tailstock)		30	20	8 (tailstock)		30
	Feedrates C, B axis	min <sup>-1</sup>		C: 200, B: 30						
Cutting feedrate	mm/rev		0.001 to 1,000.000							
Tailstock	Tapered bore	MT. No.5 (Built-in)		-		MT. No.5 (Built-in)		-		
	Quill travel	mm (in.)		1,554 (61.18)	2,054 (80.87)	-		1,359.5 (53.52)	1,961 (77.20)	
ATC	Tool shank	HSK-A63								
	No. of tools	tools		40						
	Max tool dia	mm (in.)		ø90 (3.54) (w/o adjacent tools: ø130 (5.12))						
	Max tool length	mm (in.)		400 (15.75) (from gauge line)						
	Max tool weight	kg (lb)		10 (22)						
Motor	Main spindle motor	kW (hp)		37/30 (49/40) (30 min/cont)						
	Opposing spindle motor	kW (hp)		-		32/22 (42/30) (20 min/cont)		-		
	Milling tool spindle motor	kW (hp)		22/15/11 (30/20/15) (3 min/15 min/cont)				22/15/11 (30/20/15) (3 min/15 min/cont)		
	X, Z, Y, B axis motor	kW (hp)		X: 5.2, Z: 4.6 (X: 6.9, Z: 6.1) (DBC 1,500)/ 5.2 (6.9) (DBC 2,000), Y: 3.5 (4.7), B: 3.0 (4.0)				XA: 5.2, XB: 3.5, ZA: 4.6 (XA: 6.9, XB: 4.7, ZA: 6.1) (DBC 1,500), 5.2 (6.9) (DBC 2,000), ZB: 4.6, Y: 3.5, B: 3.0 (ZB: 6.1, Y: 4.7, B: 4.0)		
	W-axis motor	kW (hp)		2.8 (3.7) (tailstock)		4.6 (6.1)		2.8 (3.7) (tailstock)		4.6 (6.1)
Coolant motor (50Hz/60Hz)	kW (hp)		0.25/0.25 (0.33/0.33) × 1, 0.55/0.75 (0.73/1) × 3							
Machine size	Height	mm (in.)		2,955 (116.34)				3,030 (119.29)		
	Floor space	mm × mm (in.)		DBC 1,500: 5,530 × 2,995 (217.72 × 117.91)				DBC 1,500: 5,530 × 3,082 (217.72 × 385.25)		
	W × D (tank included)			DBC 2,000: 6,280 × 2,995 (247.24 × 117.91)				DBC 2,000: 6,280 × 3,082 (247.24 × 121.34)		
Weight	kg (lb)		DBC 1,500: 17,300 (38,060)				DBC 1,500: 18,300 (40,260)			
			DBC 2,000: 19,300 (42,460)				DBC 2,000: 20,300 (44,660)			
CNC	OSP-P300SA									

\*1. ø320 (swing over lower turret) during shaft work and when machining with opposing spindles.

\*2. The opposing spindle capacity and working range near the opposing spindle differ with 1SW and 2SW specifications.