

Item		MULTUS U4000									
		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) ¹ , 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 (72.20)	1,524 ² (60.00)	2,045 ³ (80.51)	
	Y axis	mm (in.)		300 (11.81) (±150 (5.91))							
	W axis	mm (in.)		-	1,554 (61.18)	2,054 (80.87)	-	1,524 ² (60.00)	2,024 ³ (79.69)		
	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 ⁻¹		45 to 4,200							
	Spindle speed ranges	2 auto ranges (2-speed motor coil switching)									
	Spindle nose shape	JIS A2-8									
	Taper bore	mm (in.)		ø91 (3.58)							
	Bearing dia	mm (in.)		ø140 (5.51)							
	Opposing spindle ⁴	Spindle speed	min ⁻¹		-	45 to 4,200		-	38 to 3,800		
Spindle speed ranges				-	2 auto ranges (2-speed motor coil switching)		-	2 auto ranges (2-speed motor coil switching)			
Spindle nose shape				-	JIS A2-8		-	JIS A2-8			
Taper bore		mm (in.)		-	ø91 (3.58)		-	ø80 (3.15)			
Bearing dia		mm (in.)		-	ø140 (5.51)		-	ø120 (4.72)			
Turret (tool spindle)	Type			H1		H1, Lower: V12		Upper: 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 ⁻¹		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	X: 25, Z: 30	
	Feedrates W-axis	m/min		12 (tailstock)		30	20	12 (tailstock)		30	20
	Feedrates C, B axis	min ⁻¹		C: 200, B: 30							
Cutting feedrate	mm/rev		0.001 to 1,000.000								
Tailstock	Tapered bore			MT. No.5 (revolving center)		-		MT. No.5 (revolving center)		-	
	Quill travel	mm (in.)		1,594 (62.76)	2,094 (82.44)	-		1,359.5 (53.52)	1,961 (77.20)	-	
ATC	Tool shank	HSK-A63									
	No. of tools	tools									
	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)		22/15 (30/20) (30 min/cont)							
	Opposing spindle motor	kW (hp)		-	22/15 (30/20) (30 min/cont)		-	22/15 (30/20) (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: 5,425 × 2,995 (213.58 × 117.91)				DBC 1,500: 5,425 × 3,082 (213.58 × 385.25)			
	W × D (tank included)			DBC 2,000: 6,175 × 2,995 (243.11 × 117.91)				DBC 2,000: 6,175 × 3,082 (243.11 × 121.34)			
	Weight	kg (lb)		DBC 1,500: 17,000 (37,400) DBC 2,000: 19,000 (41,800)				DBC 1,500: 18,000 (39,600) DBC 2,000: 20,000 (44,000)			
CNC	OSP-P300SA										

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

*2. In the main Big-Bore spindle, it will be 1,500.

*3. In the main Big-Bore spindle, it will be 2,000.

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