

Item	MULTUS U3000										
			1SC		1SW		2SC		2SW		
			1000	1500	1000	1500	1000	1500	1000	1500	
Capacity	Swing over saddle	mm (in.)	ø650 (25.59)				Upper: ø650 (25.59), Lower: ø320 (12.60)				
	Distance between centers	mm (in.)	1,000 (39.37)	1,500 (59.06)	1,000 (39.37)	1,500 (59.06)	1,000 (39.37)	1,500 (59.06)	1,000 (39.37)	1,500 (59.06)	
	Max machining dia	mm (in.)	ø650 (25.59)				Upper: ø650(25.59)*1, Lower: ø320 (12.60)				
	Max machining length	mm (in.)	1,000 (39.37)	1,500 (59.06)	1,000 (39.37)	1,500 (59.06)	1,000 (39.37)	1,500 (59.06)	1,000 (39.37)	1,500 (59.06)	
Travels	X axis	mm (in.)	645 (25.39)				Upper: 645 (25.39), Lower: 235 (9.25)				
	Z axis	upper: mm (in.)	1,100 (43.31)	1,600 (62.99)	1,100 (43.31)	1,600 (62.99)	1,100 (43.31)	1,600 (62.99)	1,100 (43.31)	1,600 (62.99)	
		lower: mm (in.)	-				961 (37.83)	1,461 (57.52)	1,100 (43.31)	1,584 (62.36)	
	Y axis	mm (in.)	250 (9.84) (±125 (4.92))								
	W axis	mm (in.)	-	-	1,325 (52.17)	1,594 (62.76)	-	-	1,100 (43.31)	1,584 (62.36)	
	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	50 to 5,000								
	Spindle speed ranges		2 auto ranges (2-speed motor coil switching)								
	Spindle nose shape		JIS A2-6								
	Taper bore	mm (in.)	ø80 (3.15)								
	Bearing dia	mm (in.)	ø120 (4.72)								
	Opposing spindle*2	Spindle speed	min ⁻¹	-	-	50 to 5,000		-	-	38 to 5,000	
Spindle speed ranges			-	-	2 auto ranges (2-speed motor coil switching)		-	-	2 auto ranges (2-speed motor coil switching)		
Spindle nose shape			-	-	JIS A2-6		-	-	JIS A2-6		
Taper bore		mm (in.)	-	-	ø80 (3.15)		-	-	ø62 (2.44)		
Bearing dia		mm (in.)	-	-	ø120 (4.72)		-	-	ø100 (3.94)		
Turret (tool spindle)	Type		H1			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, Z, Y axes	lower: m/min	-				X: 25, Z: 40				
	Feedrates W-axis	m/min	20 (tailstock)	12 (tailstock)	30		20 (tailstock)	12 (tailstock)	30		
	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.)	1,186 (46.69)	1,594 (62.76)	-		961 (37.83)	1,359.5 (53.52)	-		
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)	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, Y: 3.5, B: 3.0 (X: 6.9, Z: 6.1, Y: 4.7, B: 4.0)				XA: 5.2, XB: 3.5, ZA:4.6, ZB: 3.5 (XA: 6.9, XB: 4.7, ZA:6.1, ZB: 4.7)(DBC 1,000) /4.6 (6.1) (DBC 1,500), Y: 3.5, B: 3.0 (Y: 4.7, B: 4.0)				
	W-axis motor	kW (hp)	2.8 (3.7) (tailstock)	3.5 (4.7)	4.6 (6.1)		2.8 (3.7) (tailstock)	3.5 (4.7)	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 1,000: 4,925 × 2,995 (193.90 × 117.91)				DBC 1,000: 4,925 × 3,018 (193.90 × 118.82)				
	W × D (tank included)		DBC 1,500: 5,425 × 2,995 (213.58 × 117.91)				DBC 1,500: 5,425 × 3,082 (213.58 × 121.34)				
	Weight	kg (lb)	DBC 1,000: 15,500 (34,100) DBC 1,500: 16,500 (36,300)				DBC 1,000: 16,500 (36,300) DBC 1,500: 17,500 (38,500)				
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.