

MULTUS U Series



			MULTUS U3000		MULTUS U4000	
CAPACITY	ITEM	UNIT	1000	1500	1500	2000
	Swing over saddle	mm (in.)	ø650 (25.59)		ø650 (25.59)	
	Distance between centers	mm (in.)	1,000 (39.37)	1,500 (59.06)	1,500 (59.06)	2,000 (78.74)
	Max machining dia	mm (in.)	1S: ø650 (25.59) 2S: ø650 (25.59)*		1S: ø650 (25.59) 2S: ø650 (25.59)*	
	Max machining length	mm (in.)	1,000 (39.37)	1,500 (59.06)	1,500 (59.06)	2,000 (78.74)
TRAVELS	X axis	mm (in.)	645 (25.39) (-125 (4.92) to 520 (20.47))		695 (27.36) (-125 (4.92) to 570 (22.44))	
	Z axis	mm (in.)	1,100 (43.31)	1,600 (62.99)	1,600 (62.99)	2,100 (82.68)
	Y axis	mm (in.)	250 (9.84) (±125 (4.92))		300 (11.81) (±150 (5.91))	
	W axis	mm (in.)	1S: 1,325 2S: 1,100 (52.17) (43.31)	1S: 1,594 2S: 1,584 (62.76) (62.36)	1S: 1,594 2S: 1,545 [1,500] (62.76) (60.83 [59.06])	1S: 2,054 2S: 2,045 [2,000] (80.87) (80.51 [78.74])
	B-axis / indexing angle	degree	240 (-30 to 210) (Min controlled angle 0.0001)			
	C-axis / indexing angle	degree	360 (Min controlled angle 0.0001)			
SPINDLE	Spindle speed	min-1	5,000 [4,200]		4,200 [3,000]	
	Spindle motors (intergral motor/spindles)	kW (hp)	VAC 22 (30)/15 (20) (30 min/cont)		PREX 22 (30)/15 (20) (30 min/cont) [PREX 32 (43)/22 (30) (20 min/cont)]	
	Torque	N-m (ft-lbf)	427 (314)/280 (206) (10 min/cont)		700 (515)/477 (351) (30 min/cont) [955 (702)/657 (483) (20 min/cont)]	
	Spindle nose		A2-6 [A2-8]		A2-8 [A2-11]	
	Taper bore	mm (in.)	ø80 (3.15) [ø91 (3.58)]		ø91 (3.58) [ø112 (4.41)]	
	Bearing dia	mm (in.)	ø120 (4.72) [ø140 (5.51)]		ø140 (5.51) [ø160 (6.30)]	
OPPOSING SPINDLE (OPT)	Spindle speed	min-1	1S: 5,000 [4,200], 2S: 5,000		1S: 4,200 [3,000], 2S: 3,800	
	Spindle motors (intergral motor/spindles)	kW (hp)	VAC 22 (30)/15 (20) (1S: 30 min/cont, 2S: 20 min/cont)		1S: PREX 22 (30)/15 (20) (30 min/cont) [PREX 32 (43)/22 (30) (20 min/cont)] 2S: VAC 22 (30)/15 (20) (20 min/cont)	
	Torque	N-m (ft-lbf)	1S: 427 (314)/280 (206) (10 min/cont) 2S: 420 (309)/287 (211) (20 min/cont)		1S: 700 (515)/477 (351) (30 min/cont) [955 (702)/657 (483) (20 min/cont)] 2S: 420 (309)/287 (211) (20 min/cont)	
	Spindle nose		1S: A2-6 [A2-8], 2S: A2-6		1S: A2-8 [A2-11], 2S: A2-8	
	Taper bore	mm (in.)	1S: ø80 (3.14) [ø91 (3.58)] 2S: ø62 (2.44)		1S: ø91 (3.58) [ø112 (4.41)] 2S: ø80 (3.15)	
	Bearing dia	mm (in.)	1S: ø120 (4.72) [ø140 (5.51)], 2S: ø100 (3.94)		1S: ø140 (5.51) [ø160 (6.30)] 2S: ø120 (4.72)	
TURRET (TOOL SPINDLE)	Tool shank		HSK-A63 [CAPTO C6]			
	Turning tool size	mm (in.)	25, ø40 (1 × 1, ø1.57)			
	Milling tool spindle	min-1	12000			
	Speed range	kW (hp)	VAC 22/15/11 (30/20/15) (3 min/15 min/cont)			
	Max torque	N-m (ft-lbf)	120/82/60 (88/60/44) (3 min/15 min/cont)			
LOWER TURRET (OPT)	Max machining dia	mm (in.)	ø320 (12.60)			
	XB-axis travel	mm (in.)	235 (9.25)			
	Turret type		V12 L/M			
	Turning tool size	mm (in.)	25, ø40 (1×1, ø1.57)			
	Milling tool spindle	min-1	6000			
	Speed range	kW (hp)	PREX 5.5 (7.5) /3.7 (5) (2 min/cont)			
	Max torque	N-m (ft-lbf)	31/21 (2 min/cont)			
FEEDS	XA, Y, ZA axes	m/min	50, 40, 50		50, 40, 40	
	m/min	m/min	25, 40		25, 30	
	B axis	min-1	30			
	C axis	min-1	200			
TAILSTOCK	Tapered bore		MT 5 dead (live quill) [MT 4 built-in]			
	Quill travel	mm (in.)	1S: 1,094 (43.07) 2S: 961 (37.83)	1S: 1,594 (62.76) 2S: 1,461 (57.52)	1S: 1,554 (61.18) 2S: 1,461 (57.52)	1S: 2,054 (80.87) 2S: 1,961 (77.20)
ATC	No. of tools		40 [80]			
	Max tool dia	mm (in.)	ø90 (3.54) [ø130 (5.12)] /400 (15.75)			
	Max tool weight	kg (lb)	10 (22)			
MACHINE SIZE	Floor space (W × D)	mm (in.)	1S: 4,925 × 2,995 (193.90 × 117.91) 2S: 4,925 × 3,052 (193.90 × 120.16)	1S: 5,425 × 2,995 (213.58 × 117.91) 2S: 5,425 × 3,052 (213.58 × 120.16)	1S: 6,425 × 2,995 (252.95 × 117.91) 2S: 6,425 × 3,052 (252.95 × 120.16)	
	Height	mm (in.)	1S: 2,955 (116.34) 2S: 3,030 (119.29)			
	Weight	kg (lb)	1S: 15,500 (34,100) 2S: 16,500 (36,200)	1S: 16,000 (35,200) 2S: 17,000 (37,400)	1S: 17,000 (37,400) 2S: 18,000 (39,600)	1S: 18,500 (40,700) 2S: 19,500 (42,900)
CNC	OSP-P300S					

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

