

MULTUS U LASER EX Series Machine Specifications

Item		Unit	MULTUS U3000 LASER EX				MULTUS U4000 LASER EX				MULTUS U5000 LASER EX			
			1SC	1SW	2SC	2SW	1SC	1SW	2SC	2SW	1SC	1SW	2SC	2SW
Capacity	Swing over saddle	mm (in.)	ø650 (25.59)		Upper: ø650 (25.59), Lower: ø320 (12.60)		ø650 (25.59)		Upper: ø650 (25.59), Lower: ø320 (12.60)		ø650 (25.59)		Upper: ø650 (25.59), Lower: ø320 (12.60)	
	Distance between centers	mm (in.)	1,500 (59.06)											
	Max machining dia	mm (in.)	ø650 (25.59)		Upper: ø650 (25.59)*5, Lower: ø320 (12.60)		ø650 (25.59)		Upper: ø650 (25.59)*5, Lower: ø320 (12.60)		ø650 (25.59)		Upper: ø650 (25.59)*6, Lower: ø320 (12.60)	
	Max machining length	mm (in.)	1,000 (39.37)											
Travels	X axis*1	mm (in.)	645 (25.39)		Upper: 645 (25.39), Lower: 235 (9.25)		695 (27.36)		Upper: 695 (27.36), Lower: 235 (9.25)		695 (27.36)		Upper: 695 (27.36), Lower: 235 (9.25)	
	Z axis*1	upper	1,100 (43.31)											
		lower	mm (in.)	—		1,461 (57.52)	1,584 (62.36)	—		1,461 (57.52)	1,524 (60.00)	—		1,461 (57.52)
	Y axis*1	mm (in.)	250 (±125) (9.84 (±4.92))											
	W axis	mm (in.)	—	1,594 (62.76)	—	1,584 (62.36)	—	1,554 (61.18)	—	1,524 (60.00)	—	1,554 (61.18)	—	1,500 (59.06)
	B-axis indexing angle*1	deg	−30° to + 210° (min controlled angle 0.001)											
	C-axis control	deg	360° (min controlled angle 0.0001°)											
Main spindle	Spindle speed	min ⁻¹	50 to 5,000				45 to 4,200				30 to 3,000			
	Main spindle motor	kW (hp)	22/15 (30/20) (30 min/cont)											
Opposing spindle	Spindle speed	min ⁻¹	—	50 to 5,000	—	38 to 5,000	—	45 to 4,200	—	38 to 3,800	—	30 to 3,000	—	38 to 3,800
	Opposing spindle motor	kW (hp)	—	22/15 (30/20) (30 min/cont)	—	22/15 (30/20) (20 min/cont)	—	22/15 (30/20) (30 min/cont)	—	22/15 (30/20) (20 min/cont)	—	32/22 (42/30) (20 min/cont)	—	22/15 (30/20) (20 min/cont)
Turret	Type		H1		Upper: H1, Lower: V12		H1		Upper: H1, Lower: V12		H1		Upper: H1, Lower: V12	
	No. of tools		L / M 1		Upper: L / M 1 Lower: 12		L / M 1		Upper: L / M 1 Lower: 12		L / M 1		Upper: L / M 1 Lower: 12	
	Milling tool spindle	min ⁻¹	50 to 12,000											
	Milling tool spindle motor	kW (hp)	22/15/11 (30/20/15) (3 min/15 min/cont)											
Feedrates	Feedrates X, Z, Y axes*2	upper	X: 50, Z: 50, Y: 40											
		lower	m/min	—		X: 25, Z: 40		—		X: 25, Z: 40		—		X: 25, Z: 40
	Feedrates W-axes	m/min	12 (Tailstock)	30	12 (Tailstock)	30	12 (Tailstock)	30	12 (Tailstock)	30	12 (Tailstock)	30	8 (Tailstock)	30
Feedrates C, B axes*3	min ⁻¹	C: 200, B: 30												
Tailstock	Tailstock tapered bore type		MT.No.5 (revolving center)	—	MT.No.5 (revolving center)	—	MT.No.5 (revolving center)	—	MT.No.5 (revolving center)	—	MT.No.5 (Built-in)	—	MT.No.5 (Built-in)	—
	Tailstock travel	mm (in.)	1,594 (62.76)	—	1,359.5 (53.52)	—	1,594 (62.76)	—	1,359.5 (53.52)	—	1,554 (61.18)	—	1,359.5 (53.52)	—
ATC	Tool capacity (magazine)	tools	40											
Machine size	Height*4	mm (in.)	3,125 (123.03)											
	Floor space (tank included)*4	mm (in.)	5,475 × 3,156 (215.55 × 124.25)											
	Weight	kg (lb)	16,900 (37,180)		17,900 (39,380)		17,400 (38,280)		18,400 (40,480)		17,700 (38,940)		18,700 (41,140)	
CNC		OSP-P300SA												

Note: For details on machine specifications, please see the MULTUS U Series brochure.

*1. When an LMD head is installed, travel may be restricted.

*2. The X-, Z-, and Y-axis rapid traverse rates on the upper turret are limited to 12 m/min when an LMD head is mounted.

*3. The B-axis rapid traverse is limited to 1.5 min⁻¹ when an LMD head is mounted.

*4. Dimensions with specifications for chip conveyor with drum filter.

*5. Limited to ø320 mm (swing over lower turret) during shaft work or when machining with opposing spindles.

*6. Limited to ø320 mm (lower turret swing) when machining with opposing spindles.