

Machine Specifications

	Item	MULTUS B550				MULTUS B750							
		C × 2000	C × 3000	W × 2000	W × 3000	C × 3000	C × 4000	C × 6000	W × 3000	W × 4000	W × 6000		
Capacity	Swing over saddle	ø830 (32.68)				ø1,050 (41.34)							
	Distance between centers (C), Distance between noses (W)	2,000 (78.74)	3,000 (118.11)	2,544 (100.16)	3,544 (139.53)	3,000 (118.11)	4,000 (157.48)	6,000 (236.22)	3,544 (139.53)	4,544 (178.90)	6,544 (257.64)		
	Max machining dia	ø830 (32.68)				ø1,050 (41.34)							
Travel	X-axis	925 (36.42)				1,080 (42.52)							
	Z-axis	2,215 (87.20)	3,215 (126.57)	2,215 (87.20)	3,215 (126.57)	3,215 (126.57)	4,215 (165.94)	6,215 (244.69)	3,215 (126.57)	4,215 (165.94)	6,215 (244.69)		
	Y-axis	520 (±260) [20.47 (±10.24)]				660 (±330) [25.98 (±12.99)]							
	W-axis	–				–				3,100 (122.05)		3,395 (133.66)	4,595 (180.91)
	C-axis	360 (Min controlled angle 0.001)				360 (Min controlled angle 0.001)							
Spindle	B-axis indexing angle	–30 to +210 (Min controlled angle 0.001)				–30 to +210 (Min controlled angle 0.001)							
	Speed	30 to 3,000 [10 to 2,400]				11 to 2,000 [14 to 1,500, 10 to 1,000]							
	Speed ranges	2 auto ranges (2-step motor coil switching) [4 auto ranges (4 speed gear)]				4 auto ranges (4 speed gear) [2 auto ranges (2 speed gear)]							
	Nose	JIS A2-11				JIS A2-11 [JIS A2-15, A2-20]							
	Tapered bore / Bearing dia	ø112/ø160 [ø130/ø180] [ø4.41/ø6.3 [ø5.12/ø7.09]]				ø142/ø220 [ø185/ø280, ø275/ø380] [ø5.59/ø8.66 [ø7.28/ø11.02, ø10.83/ø14.96]]							
Opposing spindle	Speed	–				–				11 to 2,000 [14 to 1,500]			
	Speed ranges	–				–				4 auto ranges (4-speed gear)			
	Nose	–				JIS A2-11 [JIS A2-15]							
	Tapered bore / Bearing dia	–				ø142/ø220 [ø185/ø280] [ø5.59/ø8.66 [ø7.28/ø11.02]]							
Turret (tool spindle)	Type	H1				H1							
	No. of tools	1 for both L and M				1 for both L and M							
	Tool shank dimensions / ID tool shank diameter	□25/ø50 (1×1/ø2)				□32/ø63 (1-1/4 × 1-1/4, ø2-1/2)							
	Speed range	40 to 10,000				40 to 10,000							
	Milling tool speed range	2 auto ranges (2-step motor coil switching)				2 auto ranges (2-step motor coil switching)							
Feed rate	Milling tool spindle torque	321/260/191 (3 min/30 min/cont)				505/300/205 (3 min/30 min/cont)							
	Rapid traverse X-, Z-, Y-axis	X, Z, Y: 40				X, Z, Y: 40		X, Y: 40, Z: 30		X, Y: 40, Z: 30			
	Rapid traverse W-axis	–				–		–		–			
	Rapid traverse C-, B-axis	C: 200, B: 30				C: 100, B: 20							
Tailstock	Quill diameter	ø130 (5.12)		–		ø180 (7.09)		–		–			
	Center taper	MT No. 5 (Built-in)		–		MT No. 6 (Built-in)		–		–			
	Quill travel	250 (9.84)		–		350 (13.78)		–		–			
ATC	Tool shank / Pull stud	HSK-A100 [CAPTO C8, BT50/P50TII]				HSK-A100 [CAPTO C8, MAS BT50/P50TII]							
	No. of tools	40 [80, 160]				40 [80, 160]							
	Max tool dia	ø130 (5.12) (w/o adjacent tools: ø260 [10.24])				ø135 (5.31) (w/o adjacent tools: ø300 [11.81])							
	Max tool length	600 (23.62) (from the gauge line)				600 (23.62) (from the gauge line)							
	Max tool mass	30 (66)				30 (66)							
Motor	Spindle motors	37/30 (50/40) (30 min/cont)		Main/opposing: 37/30 (50/40) (30 min/cont)		37/30 (50/40) (30 min/cont) [45/37 (30 min/cont)]		Main/opposing: 37/30 (50/40) (30 min/cont) [45/37 (30 min/cont)]					
	Milling tool spindle	37/30/22 (50/40/30) (3 min/30 min/cont)				37/30/22 (50/40/30) (3 min/30 min/cont)							
	Axis drive X-, Y-, Z-, B-axis	X: 5.2 × 2, Z: 5.2, Y: 5.1, B: 4.6 (X: 6.9 × 2, Z: 6.9, Y: 6.8, B: 6.1)				X: 5.2 × 2, Z: 5.2, Y: 5.1, B: 4.6 (X: 6.9 × 2, Z: 6.9, Y: 6.8, B: 6.1)							
	W-axis	–				–		–					
	Coolant motor (50/60 Hz)	0.25/0.25 × 1, 0.55/0.75 × 4 (0.33/0.33 × 1, 0.7/1 × 4)				0.25/0.25 × 1, 0.55/0.75 × 4 (0.33/0.33 × 1, 0.7/1 × 4)							
Machine size	Height	3,307 (130.20)				3,557 (140.04)		3,607 (142.01)		3,610 (142.13)			
	Floor space (tank included)	8,030 × 3,258 (316.14 × 128.27)		9,130 × 3,258 (359.45 × 128.27)		8,430 × 3,758* (331.89 × 147.95)		9,730 × 3,758* (383.07 × 147.95)		9,130 × 3,532 (359.45 × 139.06)			
	Mass (with CNC)	29,500 (64,900)		33,000 (72,600)		31,000 (68,200)		34,000 (74,800)		40,000 (88,000)			
CNC		OSP-P300SA				OSP-P300SA							

* Depth includes opposing spindle cooler [] : Option

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Standard Specifications and Accessories

	MULTUS B550	MULTUS B750
Headstock	JIS A2-11 (37/30 kW 3,000 min ⁻¹) Integral spindle/motor	JIS A2-11 (37/30 kW 2,000 min ⁻¹) Gear spindle
Milling tool spindle	37/30/22 kW 10,000 min ⁻¹	
Turret	H1 ATC	
Tailstock	Built-in quill, MT No. 5, Auto tow-along	Built-in quill, MT No. 6, Auto tow-along
Auto tool changer	40-tool magazine HSK-A100	
Coolant system	Detachable coolant tank, pump motor: 0.25/0.25 (50/60 Hz) kW × 1, 0.55/0.75 (50/60 Hz) kW × 4, Milling tool spindle, through spindle specifications	
Full-enclosure shielding	DBC 2000: manual, DBC 3000: front door auto open/close (safety tape SW included)	
In-machine work lamp	LED	
Foundation pads, jack screws	○	
Hand tools	○	
CNC	OSP-P300SA	
Operating panel	15-inch color TFT display	
Pulse handle	1 pc, portable	
Other	Thermo Active Stabilizer – Spindle (TAS-S), Thermo Active Stabilizer – Construction (TAS-C), Collision Avoidance System B-axis NC control, C-axis control, Synchronized Tapping	

Standard chuck sizes

	Chuck OD	Main / Opposing spindle									
		12-inch		15-inch		18-inch		21-inch		24-inch	
	Chuck type	Hollow	Solid	Hollow	Solid	Hollow	Solid	Hollow	Solid	Hollow	Solid
MULTUS B550	Standard spindle A2-11	●		●	●	●	●	●	●	●	●
	Big-Bore spindle A2-11			●	●	●	●	●	●	●	●
MULTUS B750	Standard spindle A2-11			●	●	●	●				
	Big-Bore spindle A2-15					●					●

Boxes with no dots ● require consultation.