

MACHINE SPECIFICATIONS

Specification for one configuration type is displayed

Please contact Samurai for specifications of exact configurations.



Description		Unit	220H Premium Model	
Travel	X Axis	mm (inch)	400 (15.75)	
	Y Axis	mm (inch)	240 (9.44)	
	Z Axis	mm (inch)	360 (14.17)	
	Distance from table surface to spindle gague	mm (inch)	480 (18.89)	
Table	Table size	mm (inch)	720 x 240 (28.3 x 9.4)	
	Table loading capacity (distributed)	Kg (lbs)	80 (176)	
	Table loading capacity (undistributed)	Kg (lbs)	40 (88)	
	Table surface clamping	mm	M8x1.25 + 8H8 Dowel 40x40	
Spindle	Max. spindle speed	RPM	12K/10K/8K/6K/4K	
	Max. spindle torque	N.m (ft-lbs)	7.9/9.5/11.9/15.9/23.4 (5.8/7/8.8/11.7/17.3)	
	Max. spindle power (Peak/15min/continuous)	kW (hp)	6/4/2 (8/5.36/2.68)	
	Taper	-	ISO #30	
Feedrate	Rapid traverse rate, ₁	m/min (ipm)	X / Y / Z: 50/50/50 (1968/1968/1968)	
	Cutting feedrate, ₁	m/min (ipm)	X,Y,Z: 10 (393)	
Acceleration	Max. axis acceleration with 20kg table load	g	2	
	Max. axis acceleration with max table load	g	0.4	
ATC	Tool storage capacity	-	16/32/64	
	Max. Extra large tool diameter (locked carousel)	mm (inch)	104 (4.09)	
	Max. Large tool diameter (reduced capacity)	mm (inch)	82 (3.22)	
	Max. Tool diameter (free carousel)	mm (inch)	51 (2)	
	Max. Long tool diameter (free carousel)	mm (inch)	20 (0.78)	
	Max. Tool length	mm (inch)	96 (3.8)	
	Max. Long tool length	mm (inch)	300 (11.8)	
	Tool Selection	-	Fixed Pocket	
	Tool change time, ₂ (Tool-to-tool)	s	0.5 <max tool mass 1kg> 1.8 <tool mass 1-4kg>	
	Tool change time, ₂ (Chip-to-chip)	s	Adjacent: 0.6 / Farthest: 1.4	
Coolant	Total Tank Capacity	L (gal)	120 (26.4)	
	Main Tank Capacity	L (gal)	70 (15.4)	
	Storage Tank Capacity	L (gal)	50 (11)	
	Coolant pump power	kW (hp)	0.18 (1/4)	
Power Requirements	1 Phase	Rated Voltage	VAC	240
		Rated Capacity	kVA	8
	3 Phase	Rated Voltage	VAC	380
		Rated Capacity	kVA	16
	Compressed air supply	bar (psi)	6 (87)	
Machine Size	Machine Height	mm (inch)	1980 (77.95)	
	Machine Width	mm (inch)	1160 (35.83)	
	Machine Depth (excluding door handle)	mm (inch)	910 (45.67)	
	Base Machine Mass	Kg (lbs)	1000 (2204)	

For more details regarding specific option specification please contact Samurai Machine Tools.

*1 Max rapid and cutting rates vary depending on selected ballscrew configuration

*2 Tool change time dependant on selected ballscrew configuration, weight of tool and maximum performance mode

Specifications and options contained within this catalogue may be changed without prior notice.

STANDARD & OPTIONAL SPECIFICATIONS

A wide variety of options are available to suit specific needs

Please contact Samurai for additional custom options.



Description		220H Premium Model	Price	
ATC	Single ATC (16 tools)			
	Single Stacked ATC (32 tools)		£3,895	
	Dual ATC (32 tools)		£2,835	
	Dual Stacked ATC (64 tools)		£7,842	
Spindle	Maximum Spindle Speed / Torque	12,000 / 7.9Nm		
		10,000 / 9.5Nm	£0.00	
		8,000 / 11.9Nm	£0.00	
		6,000 / 15.9Nm	£0.00	
		4,000 / 23.4Nm	£0.00	
	Type of Pull stud	45°		
60°		£0.00		
Axis	3 Axis			
	4 Axis (simultaneous)		£2,917	
	5 Axis (simultaneous)		£6,812	
	Speed / Force	High Speed / Low Force		£389
		Balanced		
High Force / Low Speed			£0.00	
Coolant	26L/min Flood Coolant, 120L Tank, Overflow protection			
	Air Blast			
	Through Spindle Air			
	20 Bar Through Spindle Coolant + 40L Tank			£3,751
	Coolant Misc	Mist Collector		£1,995
		Auto Coolant Mixing (40L Concentrate storage)		£858
Coolant Gun				
Chip Management	Additional Storage Bin		£289	
	Chip Conveyor System		£1,986	
Probing	Samurai Rigid tool probing			
	Blum Novatest Z-Nano Automatic Wired Tool Height Setter			
	Blum Novatest TC55 Automatic Wireless Probing		£3,060	
Warranty	5 Years (10,400 hours)			
	7 Years (14,560 hours)		£1,500	
Control	SAMURAI HMi - Windows 10 LSTC, 16GB DDR5, Intel i3, 128GB NVMe			
	SAMURAI HMi - Windows 11 LSTC, 64GB DDR5, Intel i7, 1TB NVMe		£1,108	
Power	1 Phase 240VAC			
	3 Phase 380VAC		£180	
Miscellaneous	Automatic Grease Lubrication system			
	Side Access Door		£325	
	Auto Door		£485	

Included as Standard

Please contact Samurai Machine Tools to select detail specification

Specifications, options and prices contained within this catalogue may be changed without prior notice. Some options are not available in particular regions. Please contact our sales representative to confirm details.

Flammable coolant such as oil-based coolant has a high risk of ignition, and will cause fire or machine breakage if ignited. If you have to use a flammable coolant for any reason, please be sure to consult our sales representative.