

Standard Machine Specifications

		MEGA TURN 500, 500L	MEGA TURN 500M, 500ML	MEGA TURN 600, 600L	MEGA TURN 600M, 600ML
Capacity	Max. swing	ø700 mm (ø27.56")		ø700 mm (ø27.56")	
	Max. machining diameter	ø500 mm (ø19.69")		ø630 mm (ø24.75")	ø600 mm (ø23.62")
	Max. machining height ^{*1}	462 mm (18.19")		550 mm (21.65")	
	Max. loading capacity ^{*2}	500 kg (1100 lbs)		700 kg (1500 lbs)	
Stroke	X axis	345 mm (13.5")		345 mm (13.5")	
	Z axis	520 mm (20.375")		520 mm (20.375")	
	Distance from spindle face to turret face	165.5 mm ~ 680.5 mm (6.5" ~ 26.75")		273.5 mm ~ 788.5 mm (10.75" ~ 31")	
Spindle	Chuck size	12", 15", 18" (option)		18", 21", 24" (option)	
	Spindle speed ^{*3}	3000 rpm		2200 rpm	
	Max. torque	808 N • m (596 ft • lbs)		1000 N • m (738 ft • lbs)	
	Min. indexing abgle increment (C axis)	–	0.0001°		0.0001°
	Spindle nose	A2-11		A2-11	
Turret	Type	12-position drum turret (Bolt-on)		12-position drum turret (Bolt-on)	
	Number of tools	12 tools		12 tools	
	Tool shank (O.D.)	25 mm (1")		25 mm (1") (32 mm (1.25")option)	
	Tool shank (I.D.)	ø50 mm (ø2")		ø50 mm (ø2")	
	Turret indexing time	0.3 sec/1 step		0.3 sec/1 step	
Rotary tool spindle	Spindle speed	–	4000 rpm		4000 rpm
	Max. torque	–	95.4 N • m (70 ft • lbs)		95.4 N • m (70 ft • lbs)
	Max. capability	–	Drill: ø25 mm (ø1") Endmill: ø25 mm (ø1") Tap: M24x3 (1 UNC)		Drill: ø25 mm (ø1") Endmill: ø25 mm (ø1") Tap: M24x3 (1 UNC)
Feedrate	Rapid traverse rate: X axis	30000 mm/min (1181 IPM)		30000 mm/min (1181 IPM)	
	Rapid traverse rate: Z axis	30000 mm/min (1181 IPM)		30000 mm/min (1181 IPM)	
	Rapid traverse rate: C axis	–	75 rpm	–	75 rpm
Motors	Spindle motor (40% ED/30-min. rating/Cont. rating)	26/22 kW (35/30 HP)		30/22 kW (40/30 HP)	
	Milling spindle motor (10% ED)	–	7.5 kW (10 HP)	–	7.5 kW (10 HP)
	Coolant pump motor	0.52 kW (0.7 HP)		5.2 kW (0.7 HP)	
Power requirement	Required power capacity (30-min. rating/Cont. rating)	49.0/43.3 kVA		54.7/43.2 kVA	
	Air supply	0.5 MPa (71 psi) 50 L/min (1.77 ft³/min)	0.5 MPa (71 psi) 50 L/min (1.77 ft³/min)	0.5 MPa (71 psi) 50 L/min (1.77 ft³/min)	0.5 MPa (71 psi) 50 L/min (1.77 ft³/min)
Coolant	Tank capacity ^{*4}	329 L (87 gal)		329 L (87 gal)	
Machine size	Height	2990 mm (117.72")		3000 mm (118.1")	
	Floor space ^{*5}	1850 mm X 2370 mm (72.8" x 93.3")		1850 mm X 2370 mm (72.8" x 93.3")	
	Machine weight	9250 kg (20400 lbs)		9800 kg (21600 lbs)	

*1 Max. machining height varies according to the type of chuck
*2 Including chuck weight
*3 Spindle speed depends on chuck specifications.
*4 When Rear-Hinge Chip Conveyor (CT-20) equipped
*5 Control panel and coolant tank dimensions are not included.

Standard and Optional Equipment

		● : Standard ○ : Optional – : N/A			
		MEGA TURN 500, 500L	MEGA TURN 500M, 500ML	MEGA TURN 600, 600L	MEGA TURN 600M, 600ML
Machine	Work light	●	●	●	●
	12" non-through-hole chuck NV12	○	○	–	–
	15" non-through-hole chuck NV15	○	○	–	–
	18" non-through-hole chuck NV18	○	○	○	○
	21" non-through-hole chuck NV21	–	–	○	○
	24" non-through-hole chuck NV24	–	–	○	○
	High/low chuck pressure	○	○	○	○
	0.0001° - indexing	–	●	–	●
	C axis	–	●	–	●
Factory Automation	Automatic tool changer CAPTO C6 (10-tool magazine)	○	○	○	○
	Tool eye	●	●	●	●
	Automatic chuck jaws open/close	○	○	○	○
	Chuck jar air blast	○	○	○	○
	Double foot pedal	○	○	○	○
	Automatic front door	○	○	○	○
	Automatic power off	●	●	●	●
	Automatic power ON/OFF and warm-up operation	○ ^{*1}	○ ^{*1}	○ ^{*1}	○ ^{*1}
	Machining end buzzer	○	○	○	○
	Status light (1 color)	○	○	○	○
	Status light (3 colors)	○	○	○	○
	Spindle orient	○	○	○	○
	Chuck open/close confirmation (when equipped with hydraulic chuck)	●	●	●	●
	Hydraulic pressure interlock	●	●	●	●
Safety Equipment	Operator door interlock	●	●	●	●
	Overload detection system	○	○	○	○
	Mist collector	○	○	○	○
	Turret air blast	○	○	○	○
	Shower coolant system	●	●	●	●
	High-power coolant 520 W	●	●	●	●
	High-power coolant 1.1 kW	○	○	○	○
	High-pressure coolant system 1.5 MPa	○	○	○	○
	Chip conveyor (Rear discharge) hinge type	○	○	○	○
Coolant/Chip disposal	Chip conveyor (Rear discharge) CONSEP 2000WS	○	○	○	○
	Chip conveyor (Side discharge) hinge type	○	○	○	○
	Chip bucket	○	○	○	○
NC	Absolute position detection	●	●	●	●
	Robot interface	○	○	○	○
	Detachable manual pulse generator	○	○	○	○
	CNC operation panel raised 300 mm (11.81")	○	○	○	○

*1 Standard equipment with MAZATROL SmoothG
Standard CNC system varies by market
The above specifications are for American market. Standard and optional equipment vary by market.