

















MEGA TURN 500/600

SERIES

500 500L

500M 500ML

600 600L

600M 600ML

Advanced features of the **MAZATROL SmoothG CNC**

Touch screen operation similar to your smartphone/tablet

PC with Windows® 8 embedded OS

Fastest CNC in the world with latest hardware and software for unprecedented speed and precision

Easy conversational programming of multiple-surface machining

Smooth graphical user interface and support functions for unsurpassed ease of operation

MTConnect® ready for convenient networking



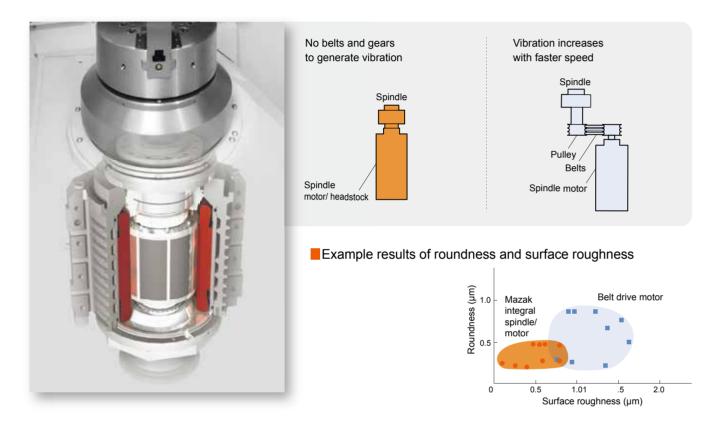


Designed with environmental considerations

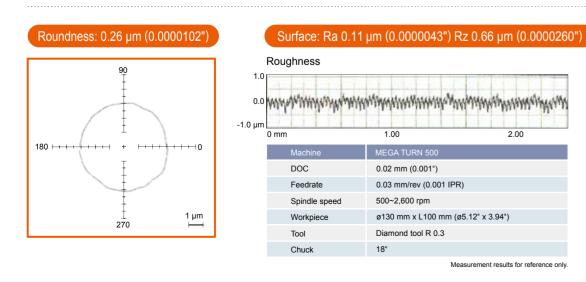
Higher Productivity & Accuracy

Rigid integral spindle/motor for unsurpassed machining performance

Based on its design, vibration is minimized during high-speed operation to ensure exceptional surface finishes.

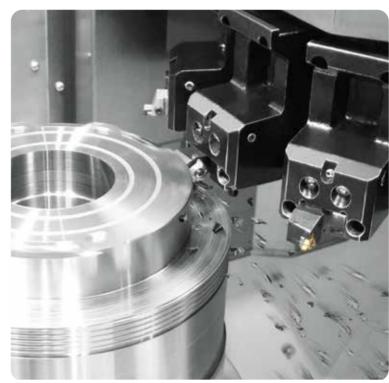


Integral spindle/motor ensures micron control high-accuracy surface finish



Powerful cutting capability for high productivity

High-torque integral spindle/motor and high-rigidity 12-position drum turret for heavy duty machining of large workpieces



O.D. depth of cut 7.5 mm (0.3")		
Workpiece	ø250 mm x L270 mm (ø9.84" x L10.63"), S45C	
Cutting speed	150 mm/min (492.13 SFM) (spindle speed = 203 rpm)	
DOC	7.5 mm (0.3")	
Feedrate	0.7 mm/rev (0.028 IPR)	
	Heavy duty O.D. cutting	
Workpiece	ø600 mm x L240 mm (ø23.62" x L9.45")	
Cutting speed	150 m/min (492.13 SFM) (spindle speed = 81 rpm)	
DOC	3.5 mm (0.14")	
	0.35 mm/rev (0.014 IPR)	
Feedrate	0.33 IIIII/IeV (0.014 IFK)	

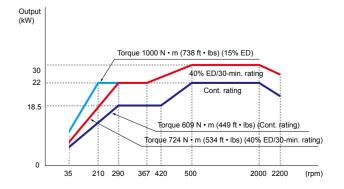
MEGA TURN 500, 500L, 500M, 500ML 3000 rpm spindle

Spindle output	26 kW (35 HP) [40% ED/30-min. rating]
	22 kW (30 HP) [Cont. rating]
Max. torque	808 N · m (596 ft · lbs) (15% ED)
Max. loading capacity*1	500 KG (1100 lbs)

Torque 808 N • m (596 ft • lbs) (15% ED) 40% ED/30-min, rating Torque 505 N • m (372 ft • lbs) (Cont. rating) 846

MEGA TURN 600, 600L, 600M, 600ML 2200 rpm spindle

Spindle output	30 kW (40 HP) [40% ED/30-min. rating]
	22 kW (30 HP) [Cont. rating]
Max. torque	1000 N · m (738 ft · lbs) (15% ED)
Max. loading capacity*1	700 KG (1500 lbs)
*1 Chuck included	

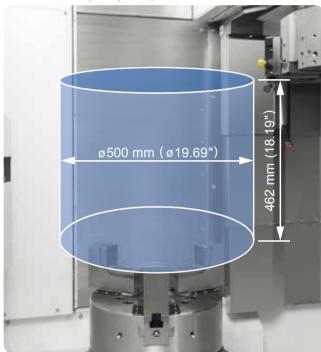


Higher Productivity & Higher Accuracy

Innovative machine design eliminates interference

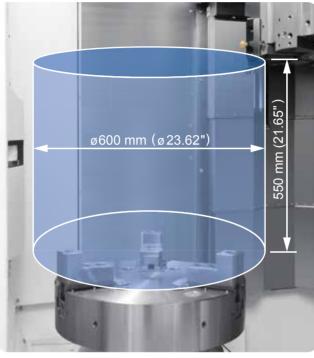
The MEGA TURN traveling-column design has no cross-rail interference, providing a larger machining area than that of comparable machines.

MEGA TURN 500, 500L, 500M, 500ML



Max. workpiece height with 12" non-through hole chuck

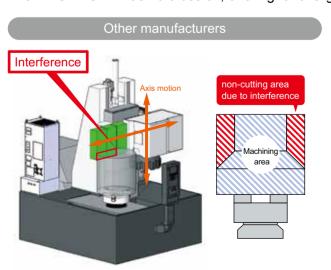
MEGA TURN 600, 600L, 600M, 600ML

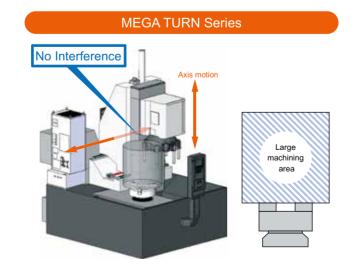


Max. workpiece height with 18" non-through hole chuck

Machine design comparison

The MEGA TURN has no crossrail, offering for a larger machining area than other manufacturers' products.





Machine design and INTELLIGENT THERMAL SHIELD ensure high accuracy

Linear roller guides

Linear roller guides provide improved positioning accuracy with lower fricition.

Smooth disposal of machined chips

The machine bed's slanted surfaces ensure smooth chip disposal.



MEGA TURN 500 (MAZATROL SmoothG) Shown with optional status light and ATC

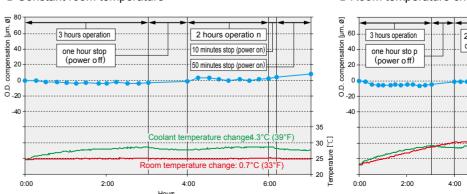


Heat Displacement Control INTELLIGEN T THERMAL SHIELD

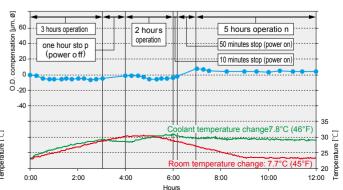
The INTELLIGENT THERMAL SHIELD is an automatic compensation system for room temperature changes that realizes enhanced continuous machining accuracy. MAZAK has performed extensive testing in a variety of temperature-controlled environments and has used the results to develop a control system that compensates automatically for temperature changes in the machining area.

IMEGA TURN 600M

① Constant room temperature



2 Room temperature change (8C°)



Higher Productivity

12-position drum turret for heavy-duty machining

12-position drum turret (MEGA TURN 500, 500L, 600, 600L)

Number of tools	12 tools (Bolt-on tool holder)
Turning and facing tool shank size	□ 25 mm (1") (Optional □ 32 mm (1.25"): 600, 600S only)
Boring bar shank diameter	ø50 mm (ø2")
Tool selection method	Shortest path, random selection Manual
Turret indexing time	0.3 sec./1 step



12-position bolt-on turret with rotary tools (MEGA TURN 500M, 500ML, 600M, 600ML)

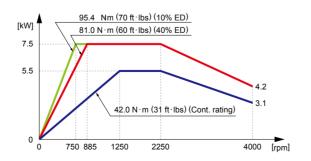
Number of tools	12 tools (Bolt-on tool holder)
Turning and facing tool shank size	□ 25 mm (1") (Optional □ 32 mm (1.25"): 600, 600S only)
Boring bar shank diameter	ø50 mm (ø2")
Tool selection method	Shortest path, random selection Manual
Turret indexing time	0.3 sec./1 step



Milling performance

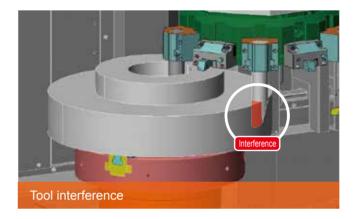


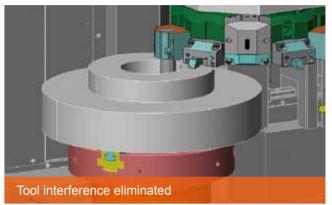
Milling spindle speed		4000 rpm		
Milling spindle output		AC 7.5 kW (10 HP) [10% ED] AC 5.5 kW (7.4 HP) [Cont. rating]		
Max. torque		95.4 N·m (70 ft·lbs) [10% ED]		
Milling	Drill	ø25 mm (ø1°)		
capacity	Endmill	ø25 mm (ø1")		
	Тар	M24 (1-8 UNC)		

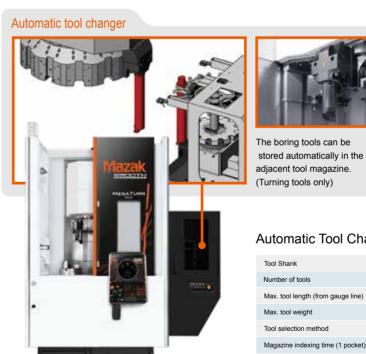


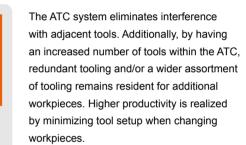
Automatic Tool Changer for static tools

OPTION









Automatic Tool Changer specifications

Tool Shank	CAPTO C6
Number of tools	10 tools
Max. tool length (from gauge line)	240 mm (9.45") (500 series) 280 mm (11.02") (600 series)
Max. tool weight	10 kg (22 lbs)/tool
Tool selection method	Shortest path, random selection
Magazine indexing time (1 pocket)	0.5 sec

Heavy-duty boring

Tool dimension	ø60 mm (ø2.36") L/D = 3
Workpiece	ø375 mm x 290 mm (ø14.76" x 11.42") S45C
Cutting speed	130 m/min
Spindle speed	351 rpm
DOC	6 mm
Feedrate	0.6 mm/rev
Example cutting conditions. For reference only	



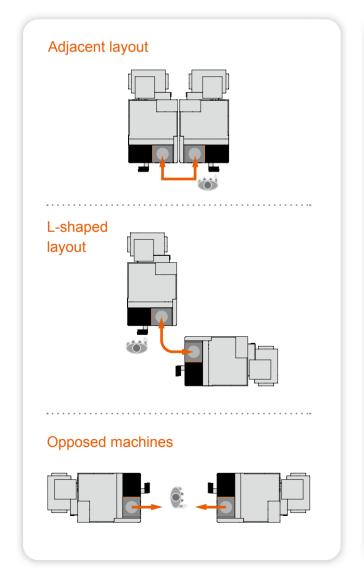
Higher Productivity

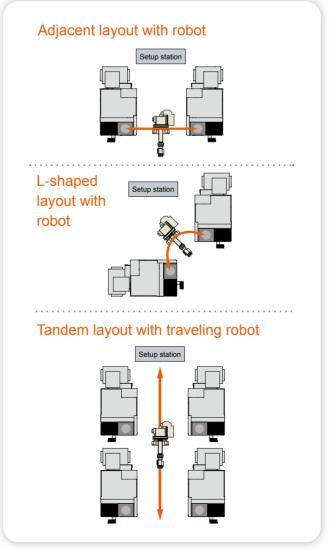
Combine different machine layouts to create efficient and spacing saving cell layouts



MEGA TURN shown with optional ATC

Available machine layouts



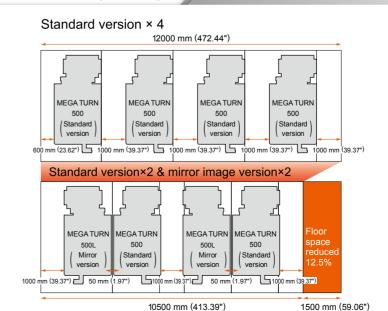


Higher efficiency



Distance covered by operator is reduced 61% to ease transfer of workpieces from machine to machine.

Space saving design



Floor space reduced *12.5% with two standard versions and two mirror-image versions.

*With Automatic Tool Changer

Intelligent Machine

Mazak has developed a variety of functions to improve productivity, accuracy and operator support. Unique technologies incorporate the expertise of veteran machine operators for unsurpassed productivity and higher accuracy.



Advanced Intelligent⁺ Functions

A variety of Intelligent Functions provides incomparable operator support for exceptional ease of operation and optimual machine efficiency.



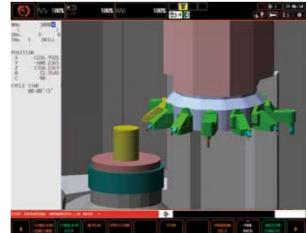
MEGA TURN 500 (MAZATROL SmoothG) Shown with optional status light and ATC





When an operator manually moves the machine axes for setup, tool measurement or changing inserts, the CNC shows a synchronized 3D model on the display to check for interference. If any machine interference occurs, the machine's motion automatically stops, Optionally, this function is available for use during automatic operation.





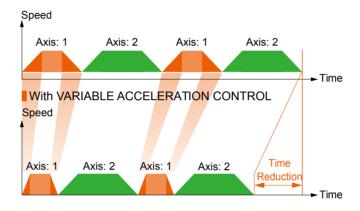


Variable Acceleration Control Function

VARIABLE ACCERLERATION CONTROL (500M, 500ML, 600M, 600ML)

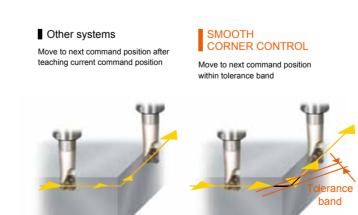
VARIABLE ACCELERATION CONTROL is a new function that permits the faster acceleration capability of linear axes to be used whenever possible. The slower acceleration of the rotary axes is not used for all program commands, resulting in faster machining cycle times.

Without VARIABLE ACCELERATION CONTROL





Improves finished surfaces and reduces cycle times by optimizing acceleration/deceleration when machining corners.





Useful infomation to improve preventive maintenance and prevent unexpected machine downtime.



Ergonomics

Ergonomic design for convenient operation

Wide door opening

The wide overhead door opening provides convenient workpiece loading/unloading when using a crane.

Large window

The large front door window allows the operator to monitor machining easily.





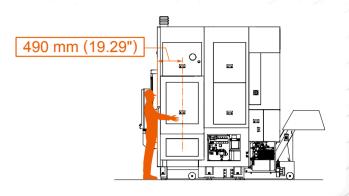
Maintenance area

Items requiring frequent access for machine maintenance are arranged in one central location.



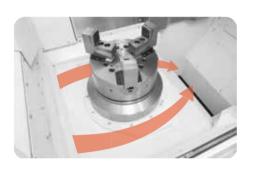
Designed for convenient operation

The operator has excellent access to the table from the front of the machine for convenient workpiece loading/unloading and machine setup.



Designed for the smooth flow of machined chips

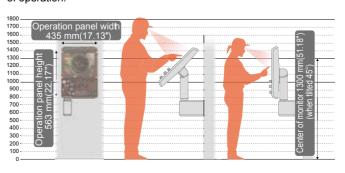
The steeply sloping machine base ensures a smooth flow of machined chips flushed by the cover coolant into the coolant tank. This prevents the accumulation of machined chips that can affect the machine operation.



MAZATROL SMOOTHG

Adjustable CNC touch panel

The operation touch panel can be tilted to the optimal position to ensure ease of operation.



MAZATROL SMOOTHC

Rotating operation panel

The panel easily rotates to each operator's preferred position.



MAZATROL CNC System

The seventh generation MAZATROL CNC system and the core of SMOOTH TECHNOLOGY

MAZATROL SMOOTHG

From setup to machining, designed for unsurpassed ease of operation



Interface with touch operation ensures convenient data processing, programming, confirmation, editing and tool data registration

Process home screens

Five different home screens display the appropriate data in an easy-to-understand manner. Touch icons in each process display for additional screen displays.

Setup



Programming



Machining



Tool data



Maintenance



Pop-up windows

Values and items can be input/selected easily on pop-up windows.

Side menu



List menu



Screen keyboard

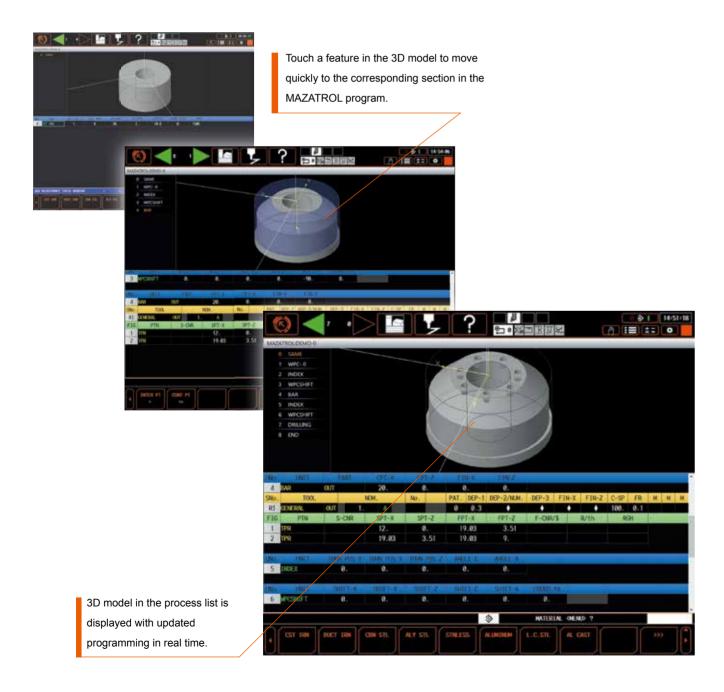


Ease of Programming

Innovative programming screen links tool path, workpiece shape and EIA code to reduce programming time

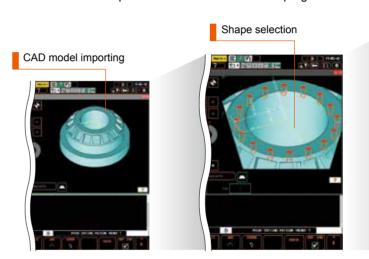
QUICK MAZATROL

The MAZATROL program, unit list and 3D workpiece shape are linked to each other. After defining a machining unit in a MAZATROL program, the 3D shape is displayed immediately so an operator may check for any programming error quickly and easily.



3D ASSIST

Import workpiece and coordinate data from a 3D CAD file to a MAZATROL program. No coordinate value inputs are required, which can reduce input errors and time needed for program checking.





QUICK EIA

The program and 3D tool path display are linked to each other. Visibly being able to see toolpath makes it easier to troubleshoot or locate lines of code. The added touchscreen capability makes it easy for the operator to call up the line of code in question.

Select tool path by touching the screen

Calls up the corresponding EIA program line

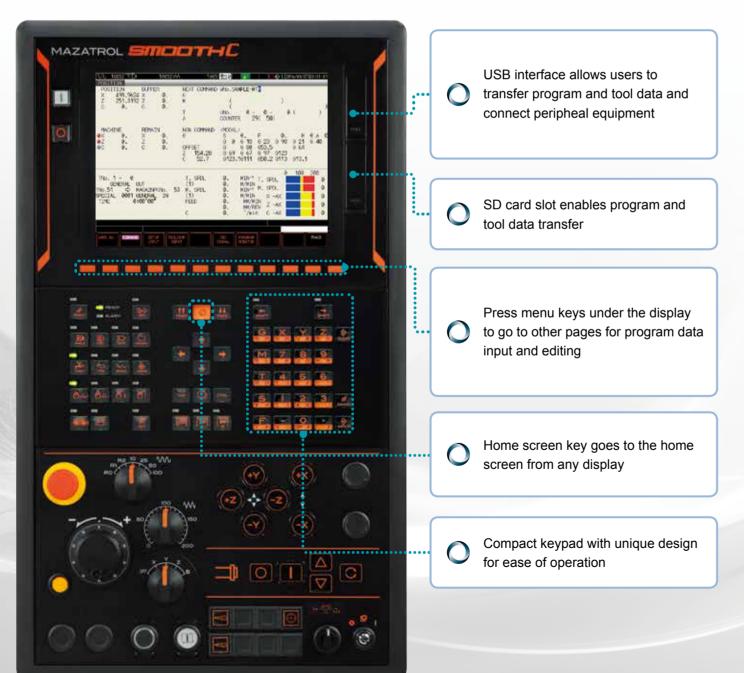
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MAZATROL CNC System

MAZATROL SINDOTHIC

Following traditional conversational MAZATROL programming, this system is designed for ease of operation with simplified key input operation and classic display style.



Home screen

The home screen displays overall process status in an easy-to-understand manner.

Comprehensive status display on one screen



MAZATROL conversational programming

MAZATROL interactive programming uses conversational language to determine cutting conditions, M codes and G codes automatically. Even a novice operator can make programs quickly.



3D machine model

A 3D machine model is available to perform program interference checks with other CAD/CAM simulation software (MAZATROL SmoothG, MAZATROL SmoothC).



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Environmentally Friendly

Designed with environmental considerations

eco-friendly

The environment and our impact on it have always been important concerns to MAZAK.

To demonstrate this commitment, the factories where MAZAK machine tools are produced are ISO 14001 certified, an international standard confirming that the operation of our production facilities does not adversely affect the environment.

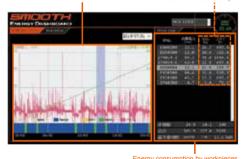
To help ensure our customers protect our natural surroundings and conserve power, LED worklights are standard equipment while the chip conveyor automatically stops operation five minutes after cycle completion.

Energy Dashboard (MAZATROL Smooth G) OPTION

The energy dashboard provides a convenient visual monitoring of energy consumption and

graphical analysis.

Display approximate CO2



Process screen display

- Total energy consumption (of workpiece in operation)
- Current energy consumption



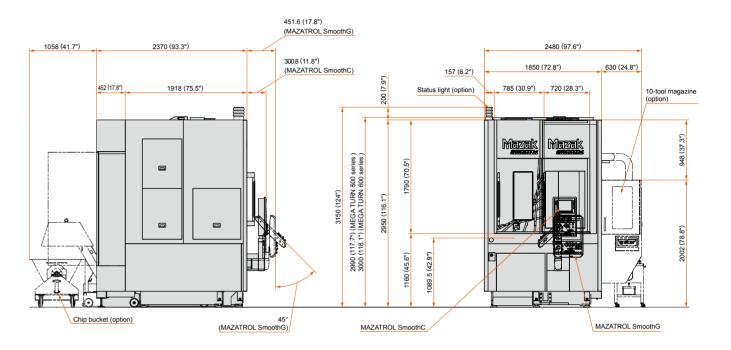




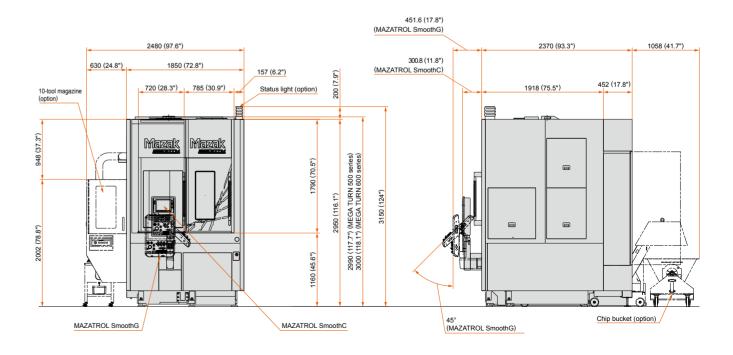
MEGA TURN 500 (MAZATROL Smooth G) Shown with optional status light and ATC

Machine Dimensions

MEGA TURN 500, 500M, 600, 600M



MEGA TURN 500S, 500MS, 600S, 600MS



MAZATROL SmoothG Specifications

	MAZATROL	EIA		
Number of controlled axes	Simultaneous 3 axes			
Minimum input increment	0.0001 mm, 0.00001 inch, 0.0001 deg			
High-speed, high-precision control	SMOOTH CORNER CONTE	ROL, Rapid traverse overlap		
Interpolation	Positioning (linear interpolation), Positioning (independent interpolation), Linear interpolation, Circular interpolation, Cylindrical coordinate interpolation, Polar coordinate interpolation, Equal pitch threading, Re-Threading*, Override threading*, Override variable threading*, Synchronized milling spindle tapping*	Positioning (linear interpolation), Positioning (independent interpolation), Linear interpolation, Circular interpolation, Spiral interpolation, Helical interpolation, Equal pitch threading, Variable pitch threading, Threading (C axis interpolation type), Cylindrical coordinate interpolation*, NURBS interpolation*, Polar coordinate interpolation*, Re-Threading*, Override threading*, Override variable threading*, Synchronized milling spindle tapping*		
Feedrate	Rapid traverse, Cutting feed, Cutting feed (per minute), Cutting feed (per revolution), Dwell (time/rotation), Rapid traverse override, Cutting feed override, GO speed variable control, Feedrate clamp, Variable acceleration/deceleration control	Rapid traverse, Cutting feed, Cutting feed (per minute), Cutting feed (per revolution), Inverse time feed, Dwell (time/rotation), Rapid traverse override, Cutting feed override, GO speed variable control, Feedrate clamp, Time constant changing for G1, Variable acceleration/deceleration control		
Program registration	Max. number of programs: 960, Program storage: 2MB, Program	n storage expansion: 8MB*, Prgoram storage expansion: 32MB*		
Control display	Display: 19" touch par	nel, Resolution: SXGA		
Spindle functions	S code output, Spindle speed clamp, Spindle speed override, Spindle speed reaching detection, Multiple position orient, Constant surface speed, SPindle speed command with decimal digits, Synchronized spindle control, Max. speed control for spindle			
Tool functions	Tool offset pairs: 4000, T code output for tool number, Tool life monitoring (time), Tool life monitoring (number of machined workpieces)	Tool offset pairs: 4000, T code output for tool number, Tool code output for group number, Tool life monitoring (time), Tool life monitoring (number of machined workpieces)		
Miscellaneous functions	M code output, Simultaneous output of multiple M codes			
Tool offset functions	Tool position offset, Tool length offset, Tool diameter/tool nose R offset, Tool nose shape offset, Tool wear offset, Fixed amount offset, Simple wear offset			
Coordinate system	Machine coordinate system, Work coordinate system, Local coordinate system, MAZATROL coordinate system, Additional work coordinates (300 set)			
Machine compensation	G0/G1 independent backlash compensation, Pitch error compensation			
Protection functions		Barrier, INTELLIGENT SAFETY SHIELD (manual mode), HIELD (automatic mode)*		
Automatic operation mode	Memory operation Memory operation, Tape operation, MDI operation, Ethern			
Automatic operation mode	Optional stop, Dry run, Automatic handle control, MDI control, TPS, Restart, Single process, Machine lock	Optional block skip, Optional stop, Dry run, Automatic handle control, MDI control, TPS, Restart, Restart 2, Collationstop, Machine lock		
Manual measuring functions	Tool-setting data teach, Tool length and tip teach, Touch sensor coordinates measurements, Workpiece offset measurement, Tool eye measurement Tool eye measurement Tool eye measurement Tool eye measurement			
Automatic measuring functions	Workpiece measurement, Touch sensor orientation confirmation	ion, Tool eye auto tool measurement, Tool breakage detection		
Interface	PROFIBUS-DP*, Ett	nernet I/P*, CC-Link*		
Card interface	SD card into	erface, USB		
Ethernet	10M/100	M/1Gbps		
*: Option				

MAZATROL SmoothC Specifications

	MAZATROL	EIA		
Number of controlled axes	Simultane	ous 3 axes		
Vinimum input increment	0.0001 mm, 0.0000	01 inch, 0.0001 deg		
ligh-speed, high-precision control	VAC, SMOOTH CORNER CO	NTROL, Rapid traverse overlap		
Interpolation	Positioning (linear interpolation), Positioning (independent interpolation), Linear interpolation, Circular interpolation, Cylindrical coordinate interpolation, Polar coordinate interpolation, Equal pitch threading, Re-Threading*, Override threading*, Override variable threading*, Synchronized milling spindle tapping*	Positioning (linear interpolation), Positioning (independent interpolation), Linear interpolation, Circular interpolation, Spiral interpolation, Helical interpolation, Equal pitch threading, Variable pitch threading, Threading (C axis interpolation type), Cylindrical coordinate interpolation* NURBS interpolation*, Polar coordinate interpolation*, Re-Threading*, Override threading*, Override variable threading*, Synchronized milling spindle tapping*		
Feedrate	Rapid traverse, Cutting feed, Cutting feed (per minute), Cutting feed (per revolution), Dwell (time/rotation), Rapid traverse override, Cutting feed override, GO speed variable control, Feedrate clamp, Variable acceleration/deceleration control, Constant control for GO tilting*	Rapid traverse, Cutting feed, Cutting feed (per minute), Cutting feed (per revolution), Inverse time feed, Dwell (time/rotation), Rapid traverse override, Cutting feed override, GO speed variable control Feedrate clamp, Time constant changing for G1, Variable acceleration/deceleration control, Constant control for GO tilting		
Program registration	Max. number of programs: 960, Program storage: 2MB, Program	m storage expansion: 8MB*, Prgoram storage expansion: 32MB*		
Control display	Display: 10.4" screen, Resolution: VGA			
Spindle functions	S code output, Spindle speed clamp, Spindle speed override, Spindle speed reaching detection, Multiple position orient, Constant surface speed, SPindle speed command with decimal digits, Synchronized spindle control, Max. speed control for spindle			
Tool functions	Tool offset pairs: 4000, T code output for tool number, Tool life monitoring (time), Tool life monitoring (number of machined workpieces)	Tool offset pairs: 4000, T code output for tool number, Tool code output for group number, Tool life monitoring (time), Tool life monitoring (number of machined workpieces)		
Miscellaneous functions	M code output, Simultaneous output of multiple M codes			
ool offset functions	Tool position offset, Tool length offset, Tool diameter/tool nose R offset, Tool	nose shape offset, Tool wear offset, Fixed amount offset, Simple wear offset		
Coordinate system	Machine coordinate system, Work coordinate system, Local coordinate system, MAZATROL coordinate system, Additional work coordinates (300 set)			
Machine compensation	G0/G1 independent backlash comp	pensation, Pitch error compensation		
Protection functions	Emergency stop, Interlock, Strol	ke check before traveling, Barrier		
automatic operation mode	Memory operation Memory operation, Tape operation, MDI operation			
Automatic operation mode	Optional stop, Dry run, Automatic handle control, MDI control, TPS, Restart, Single process, Machine lock	Optional block skip, Optional stop, Dry run, Automatic handle control, MDI control, TPS, Restart, Restart 2, Collationstop, Machine lock		
Manual measuring functions	Tool-setting data teach, Tool length and tip teach, Touch sensor coordinates measurements, Workpiece offset measurement, Tool eye measurement	Tool-setting data teach, Tool length and tip teach, Touch sensor coordinates measurement, Workpiece offset measurement Tool eye measurement		
Automatic measuring functions	Workpiece measurement, Touch sensor orientation confirmat	ion, Tool eye auto tool measurement, Tool breakage detection		
nterface	PROFIBUS-DP*, Et	hernet I/P*, CC-Link*		
Card interface	SD card int	erface, USB		
Ethernet	10M/100	M/1Gbps		
Option				

^{*:} Opt

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	1 (21.65")
	Max. loading capacity*2	500 kg (1100 lbs)	700 kg (1500 lbs)	
Stroke	X axis	345 mr	n (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	5 mm (6.5" ~ 26.75")	273.5 mm ~ 788.5	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 • Ilbs)
	Min. indexing abgle increment (C axis)	-	0.0001°		0.0001°
	Spindle nose	A2	-11	A2-11	
Turret	Туре	12-position drum turret (Bolt-on) 12-position drum		m turret (Bolt-on)	
	Number of tools	12 tools 25 mm (1") ø50 mm (ø2")		12 tools	
	Tool shank (O.D.)			25 mm (1") (32 mm (1.25")option)	
	Tool shank (I.D.)			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/m	in (1181 IPM)	30000 mm/min (1181 IPM)	
	Rapid traverse rate: Z axis	30000 mm/m	in (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}		(87 gal)	329 L (87 gal)	
Machine size	Height	2990 mm	(117.72")	3000 mr	n (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)	

Standard and Optional Equipment

		● : Standard ○ : Optional –			d O: 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	0	0	-	-
	15" non-through-hole chuck NV15	0	0	-	-
	18" non-through-hole chuck NV18	0	0	0	0
	21" non-through-hole chuck NV21	-	-	0	0
	24" non-through-hole chuck NV24	-	-	0	0
	High/low chuck pressure	0	0	0	0
	0.0001° - indexing	-	•	-	•
	C axis	-	•	-	•
Factory Automation	Automatic tool changer CAPTO C6 (10-tool magazine)	0	0	0	0
	Tool eye	•	•	•	•
	Automatic chuck jaws open/close	0	0	0	0
	Chuck jar air blast	0	0	0	0
	Double foot pedal	0	0	0	0
	Automatic front door	0	0	0	0
	Automatic power off	•	•	•	•
	Automatic power ON/OFF and warm-up operation	O*1	O ^{*1}	O ^{*1}	O*1
	Machining end buzzer	0	0	0	0
	Status light (1 color)	0	0	0	0
	Status light (3 colors)	0	0	0	0
	Spindle orient	0	0	0	0
Safety Equipment	Chuck open/close confirmation (when equipped with hydraulic chuck)	•	•	•	•
	Hydraulic pressure interlock	•	•	•	•
	Operator door interlock	•	•	•	•
	Overload detection system	0	0	0	0
Coolant/Chip disposal	Mist collector	0	0	0	0
uisposai	Turret air blast	0	0	0	0
	Shower coolant system	•	•	•	•
	High-power coolant 520 W	•	•	•	•
	High-power coolant 1.1 kW	0	0	0	0
	High-pressure coolant system 1.5 MPa	0	0	0	0
	Chip conveyor (Rear discharge) hinge type	0	0	0	0
	Chip conveyor (Rear discharge) CONSEP 2000WS	0	0	0	0
	Chip conveyor (Side discharge) hinge type	0	0	0	0
	Chip bucket	0	0	0	0
NC	Absolute position detection	•	•	•	•
	Robot interface	0	0	0	0
	Detachable manual pulse generator	0	0	0	0
	CNC operation panel raised 300 mm (11.81")	0	0	0	0

^{*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 Conveyer (CT-20) equipped
*5 Control panel and coolant tank dimensions are not included.

^{*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.

MEGA TURN SERIES LINEUP



MEGA TURN 500 SERIES

Max. machining diameter Max. workpiece height*

ø500 mm (ø19.69") 462 mm (18.19")

MEGA TURN 600 SERIES

Max. machining diameter

ø630 mm (ø24.75") (600, 600s) ø600 mm (ø23.62") (600M, 600MS) 550 mm (21.65")

Max. workpiece height*



MEGA TURN 900 SERIES



Max. machining diameter Max. workpiece height*

ø920 mm (ø36.2") 800 mm (31.5")



MEGA TURN 1600 SERIES



Max. machining diameter Max. workpiece height*

ø1650 mm (ø64.96") 900 mm (35.43")

* Depends on chuck specifications

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- Specifications are subject to change without notice.
- This product is subject to all applicable export control laws and regulations.
- The accuracy data and other data presented in this catalogue were obtained under specific conditions. They may not be duplicated under different conditions (room temperature, workpiece materials, tool material, cutting conditions, etc.).



