

Mazak

QTE

SERIES

[ M, MY, MS, MSY ]

MAZATROL  
*SMOOTH*EZ**



High-speed, high accuracy CNC turning centers

# QTE SERIES

Turning, milling, Y-axis and second spindle specifications designed to meet your production requirement



Shown with optional equipment

## High Productivity

### Quick-Change Mill holder

The new milling holder provides considerably improved cutting performance. One hand wrench as standard equipment that utilizes spring enables tightening and loosening collect chucks easily.

**4500 rpm  
rotary tool spindle**

Output (40% ED / cont. rating) :  
5.5 kW / 3.7kW  
Max. torque (40% ED) : 47 N·m

**6000 rpm  
rotary tool spindle**

OPTION

Output (40% ED / cont. rating) :  
5.5 kW / 3.7kW  
Max. torque (40% ED) : 23 N·m



### 12 position drum turret

12 position drum turret designed with minimum interference.  
12 position drum turret (24 position) is optionally available.

O.D. turning, facing tool	∅25 mm ~ 150 mm
Boring bar shank	∅40 mm
Turret indexing time	1 step : 0.23 sec
	6 step : 0.63 sec



## Environmental Friendly

### Reduce electrical power consumption

Yamazaki Mazak actively promotes energy-saving and environment conservation operations as one of our most important tasks. QTE series is equipped with high efficiency hydraulic unit to reduce electrical power consumption.



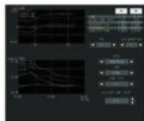


MAZATROL  
**SMOOTH EZ**

## Three **Ez (Easy)** features for higher productivity

### Ez Machining

#### HEAT DISPLACEMENT CONTROL THERMAL SHIELD



Mazak has performed extensive testing in a variety of environments in a temperature controlled room and has used the results to develop a control system that automatically compensates for temperature changes in the machining area.

### Ez Setup

Virtual machines in your office accurately duplicate the operation of machines on your factory floor. Programs can be made and edited, as well as performing simulation and analysis in your office.

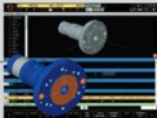
**SMOOTH**

CAM AI

OPTION

#### Solid MAZATROL

A program is automatically generated from 3D CAD data.



Office PC



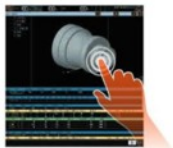
Factory

### Ez Operation

#### QUICK MAZATROL

Programs can be easily created and checked by displaying the 3D model of the workpiece.

Easily edit a program by touching the display



#### CUSTOM DISPLAY

Displayed data position can be changed in the CNC screen for ease of operation.

Data can be checked and set with minimum screen transition by customizing the display according to operation process.



Customized display

- Tool data
- Work offset
- Setup information

## ■ Standard Machine Specifications

	100M SG	100MY SG	100MS SG	100MSY SG
Universal	500U	500U	500U	500U
Max. machining diameter	Φ340 mm	Φ340 mm	Φ340 mm	Φ340 mm
Max. machining length*	553 mm	553 mm	-	-
Travel (X/Y/Z)	215 mm / - / 605 mm	215 mm / 100 mm / 605 mm	215 mm / - / 605 mm	215 mm / 100 mm / 605 mm
Main spindle chuck size	6" through-hole chuck B-206	6" through-hole chuck B-206	6" through-hole chuck B-206	6" through-hole chuck B-206
Main spindle (40% ED)**	6000 rpm, 15 kW (20 HP)	6000 rpm, 15 kW (20 HP)	6000 rpm, 15 kW (20 HP)	6000 rpm, 15 kW (20 HP)
Second spindle chuck size	-	-	5" through-hole chuck B-205	5" through-hole chuck B-205
Second spindle (40% ED)**	-	-	6000 rpm, 7.5 kW (10 HP)	6000 rpm, 7.5 kW (10 HP)
Rotary tool spindle (40% ED)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)
Talstock center	MT No.5 dead center	MT No.5 dead center	-	-
Bar work capacity**	Φ45 mm	Φ45 mm	Φ45 mm	Φ45 mm
Turnet tool capacity	12	12	12	12

	200M SG	200MY SG	200MS SG	200MSY SG
Universal	500U / 1000U	500U / 1000U	500U	500U
Max. machining diameter	Φ340 mm	Φ340 mm	Φ340 mm	Φ340 mm
Max. machining length*	532 mm - 1062 mm	532 mm - 1062 mm	-	-
Travel (X/Y/Z)	215 mm / - / 605 mm - 1155 mm	215 mm / 100 mm / 605 mm - 1155 mm	215 mm / - / 605 mm	215 mm / 100 mm / 605 mm
Main spindle chuck size	8" through-hole chuck B-208	8" through-hole chuck B-208	8" through-hole chuck B-208	8" through-hole chuck B-208
Main spindle (40% ED)**	5000 rpm, 15 kW (20 HP)	5000 rpm, 15 kW (20 HP)	5000 rpm, 15 kW (20 HP)	5000 rpm, 15 kW (20 HP)
Second spindle chuck size	-	-	6" through-hole chuck B-206	6" through-hole chuck B-206
Second spindle (40% ED)**	-	-	6000 rpm, 7.5 kW (10 HP)	6000 rpm, 7.5 kW (10 HP)
Rotary tool spindle (40% ED)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)
Talstock center	MT No.5 dead center (500U) MT No.4 built-in center (1000U)	MT No.5 dead center (500U) MT No.4 built-in center (1000U)	-	-
Bar work capacity**	Φ52 mm	Φ52 mm	Φ52 mm	Φ52 mm
Turnet tool capacity	12	12	12	12

	300M SG	300MY SG	300MS SG	300MSY SG
Universal	500U / 1000U	500U / 1000U	500U	500U
Max. machining diameter	Φ340 mm	Φ340 mm	Φ340 mm	Φ340 mm
Max. machining length*	496.5 mm - 1046.5 mm	496.5 mm - 1046.5 mm	-	-
Travel (X/Y/Z)	215 mm / - / 605 mm - 1155 mm	215 mm / 100 mm / 605 mm - 1155 mm	215 mm / - / 605 mm	215 mm / 100 mm / 605 mm
Main spindle chuck size	10" through-hole chuck B-210	10" through-hole chuck B-210	10" through-hole chuck B-210	10" through-hole chuck B-210
Main spindle (40% ED)**	4000 rpm, 18.5 kW (25 HP)	4000 rpm, 18.5 kW (25 HP)	4000 rpm, 18.5 kW (25 HP)	4000 rpm, 18.5 kW (25 HP)
Second spindle chuck size	-	-	6" through-hole chuck B-206	6" through-hole chuck B-206
Second spindle (40% ED)**	-	-	6000 rpm, 7.5 kW (10 HP)	6000 rpm, 7.5 kW (10 HP)
Rotary tool spindle (40% ED)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)	4500 rpm, 5.5 kW (7.4 HP)
Talstock center	MT No.5 dead center (500U) MT No.4 built-in center (1000U)	MT No.5 dead center (500U) MT No.4 built-in center (1000U)	-	-
Bar work capacity**	Φ76 mm	Φ76 mm	Φ76 mm	Φ76 mm
Turnet tool capacity	12	12	12	12

\* Depends on chuck specifications

# Mazak

YAMAZAKI MAZAK CORPORATION

1-131 Takeda, Oguchi-cho, Nivva-gun, Aichi-Pref., Japan  
TEL: +81(57)95-1131[www.mazak.com](http://www.mazak.com)

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