

GT260V

Multi Turrets Turning Center Series

You Might Need A Helping Hand To Double The Machining Efficiency





Multiple Turrets Multiply Your Production

Expanded machine functionality promises reduced cycle times. Suitable for a broad range of production processes.

This machine's development was driven by the demands of entrepreneurial manufacturers.

The Z-MaT GT260V combines the highest levels of reliability, accuracy and efficiency.

As a result of large production volume and well managed supply chain,

Z-MaT has produced a machine that operates at the highest levels of performance

- providing you with a powerful weapon for improving your competitive

Advantage

Designed

With The Operator In Mind



The goal of machine tool manufacturers is to improve human life through improvements in machine technology and integration. Providing harmony between man and machine is demonstrated in every detail of the GT260V design.

The vertical bed design puts the double turrets in close proximity to the operator, allowing ease and convenience during set-up. Also the cutting thrust force and machine rigidity are increased by this design.



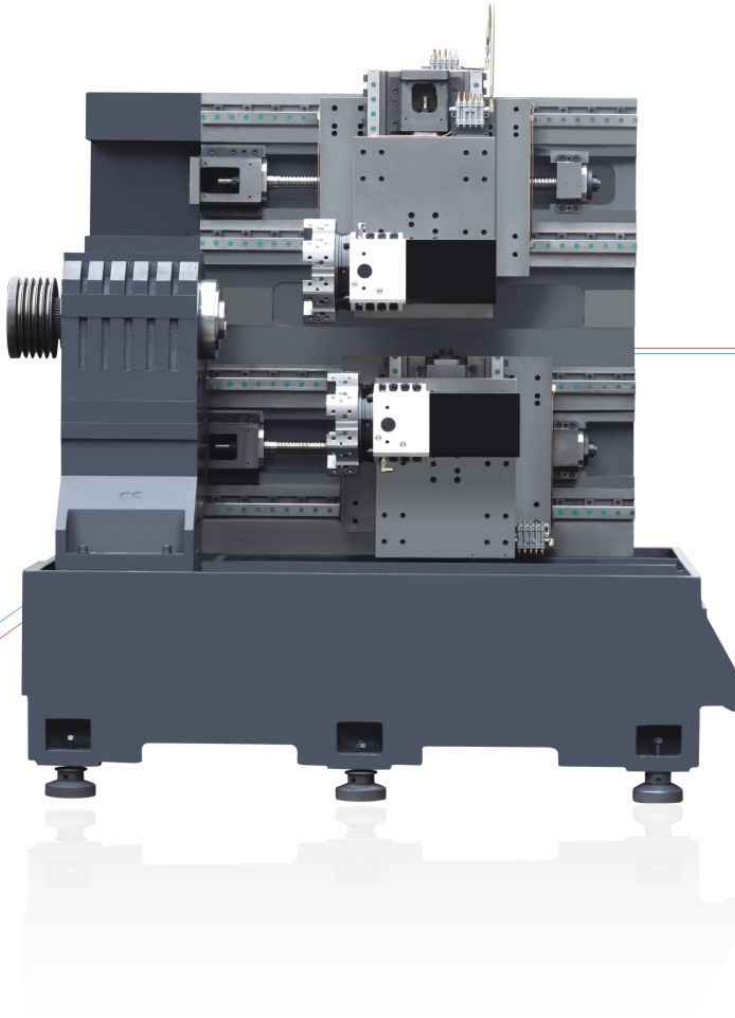
- 1 Hydraulic Dashboard
- 2 Accessories & Tool Box
- 3 Alarm Lamp
- 4 Coolant Tank
- 5 Central Auto Lubrication System
- 6 Adjustable Control System Panel

User Friendly Operability

The ergonomically designed operator interface is situated at an optimal height and has a swing arm to allow the operator to adjust the interface angle for ease and convenience. Frequently used buttons are conveniently located and easy to press. The MPG is a standard option and provides optimal visibility during machine set-ups.

This improves workability and helps malfunctions and mistakes. The difference in height of operators was considered in the design of the door handles. The door handle is elongated for easier opening and closing of the door. An enclosure for tooling and supplies is located just under the control panel. A separate coolant tank makes clean-up easy.

The automatic lubrication pump is located in an enclosure near the operator. It has a clear glass door for easy observation. Enclosing the pump keeps away chips and other contaminants. Hydraulic Dashboard are in the left and front side, chuck, turrets and general hydraulic pressure are all observed clear and neat.



Machine

Scientific Design Structure

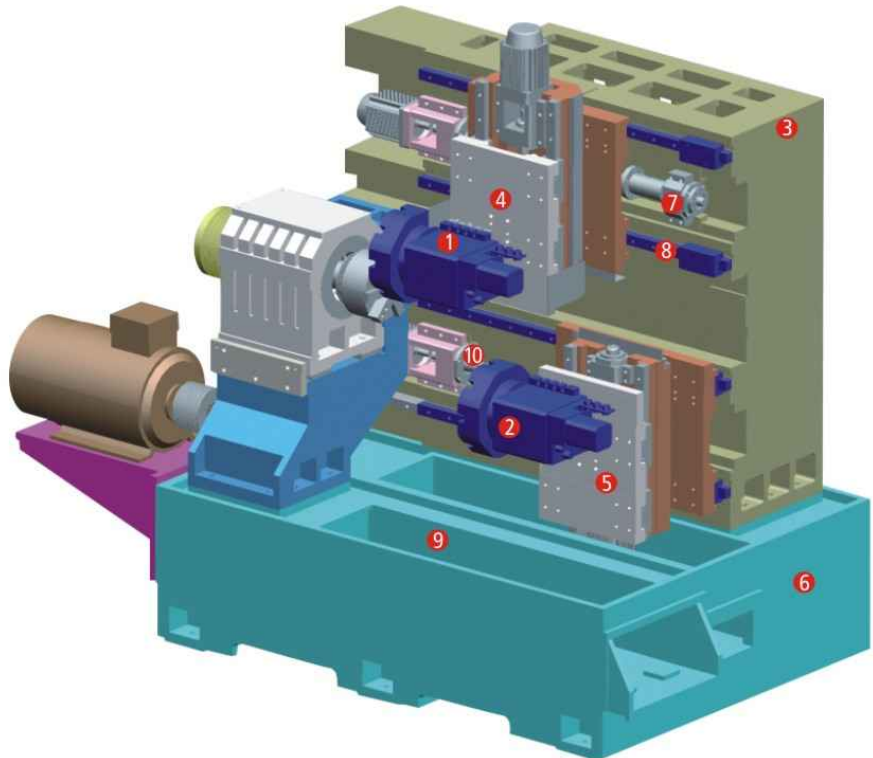
By centering the machine symmetrical design from the spindle, heat is distributed evenly and accuracy during continuous machine is distinctly improved. Overall machining efficiency is increased.



Z-MaT Multi-Turrets

GT260V Structure

- | | |
|--|--|
| 1 Upper Turret
Gang Type Tools As Option | 7 Double End Support and
Pre-load Super Precision Ballscrew. |
| 2 Sub Turret
Gang Type Tools As Option | 8 Cylindrical Roller Type Heavy Duty
Linear Guideway. |
| 3 90 Degree Monoblock Robust
Bed Offers Super Rigidity | 9 Big Capacity Right Removal
Chip Tank |
| 4 Upper
X1/Z1 Slides | 10 Direct Transmission Servo Motor
With Backlash Free Couplings |
| 5 Sub
X2/Z2 Slides | |
| 6 Large Span Solid Casting
Base Provides Perfect Anti-vibration Performance | |



Spindle

Z-MaT provides a variety of lathe spindles to match the requirements of a wide range of industries. Z-MaT spindles have a wide range of cutting parameters with different spindle characteristics to match your unique turning requirement in a way that assures you maximum efficiency and profitability.

Z-MaT's 100% owned spindle manufacturing subsidiary is constantly researching and developing new spindles to match a broader range of customer turning requirements. The GT260V has a number of spindle options in order to optimize the efficiency of this dual spindle powerhouse – for your application. We are here to help you maximize your processes and help you make more, and better quality parts.

Cartridge Type Spindle

The Z-MaT cartridge spindles are sealed within a stainless steel housing as a complete unit. Easily replaceable and securely matched with a machine headstock that provides the foundation for better spindle dynamic balancing accuracy. Works well in high speed applications.



Direct Mounted Spindle

The Z-MaT direct mounted option matches the headstock manufacturing and assembly for optimum accuracy. Each manufactured headstock and spindle unit is assembled in a clean room under temperature controlled conditions. The larger sized spindles are supported by a double row of tapered cylindrical roller bearings, plus angular ball bearings and a double row cylindrical roller bearing in the rear for increasing rigidity. Small size spindle design adopts high precision angular ball bearing reduces noise and increases accuracy.



Direct Driven Spindle

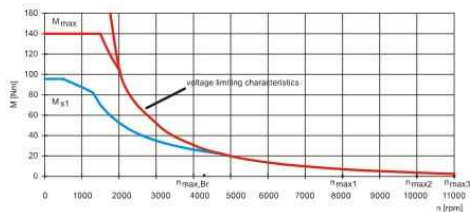
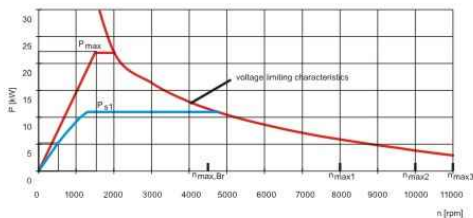
This electric spindle (Built-In Motor) offers high acceleration and deceleration, which shortens cycle times and increases efficiency. In addition, a machine with this spindle will operate with less vibration and lower noise. It is excellent for applications where finish and extreme accuracy are important.



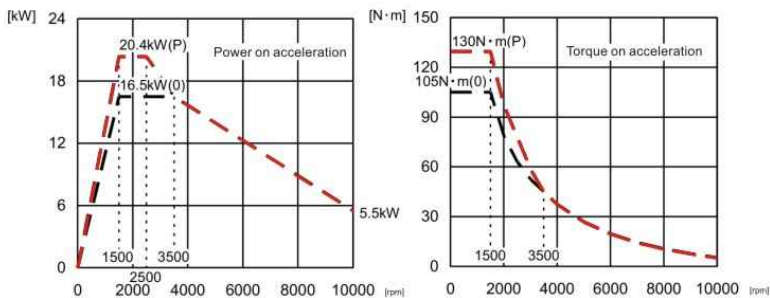
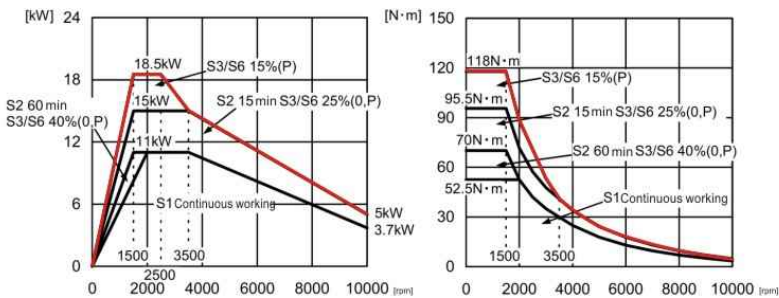
Servo Spindle Motor Output Curve

GT260V has different control system options. The characteristics of standard spindle motor for Siemens828D and Fanuc oi TF plus are shown as below.

Siemens (SIMTICS M-1PH8131)



Fanuc Main spindle il 12/10000-B



The spindle output torque is calculated by spindle pulley ratio

- 1:2 for direct mount spindle
- 1:1.5 for cartridge spindle.

Servo Turret

- 1** | **◆ High Speed**
 The turret uses servo motors to shift the tool position which reduce tool change time essentially.
- 2** | **◆ Heavy Duty**
 The turret uses hydraulic system to clutch. Powerful tool clamping minimizes tool tip deviation due to load, which displays excellent performance during heavy duty cutting.
- 3** | **◆ High Accuracy**
 The turret uses high-precision tooth couplings for accurate positioning.

As double channel system with double turrets, all those advanced technology enlarged 2 times on GT260V. Machining cycle time is reduced, which improves productivity tremendously.



Fast Speed Turret On GT260V, Boost Your Production

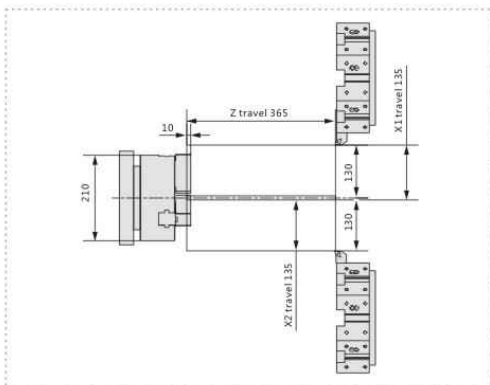
Adjacent tool change and lock time for 8-station turret

Optional Hydraulic Turret	0.6s
GT260V Standard Servo Turret	0.39s <small>Save time -0.21s</small>

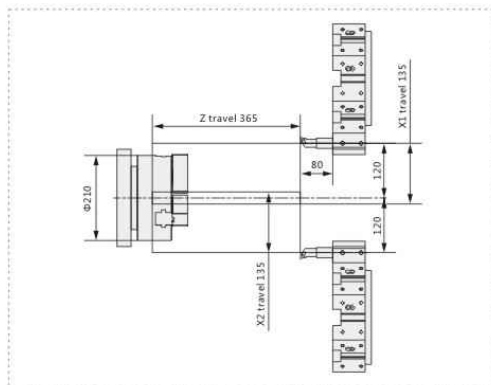
Opposite tool change and lock time for 8-station turret

Optional Hydraulic Turret	2s
GT260V Standard Servo Turret	0.53s <small>Save time -1.47s</small>

Working Capacity

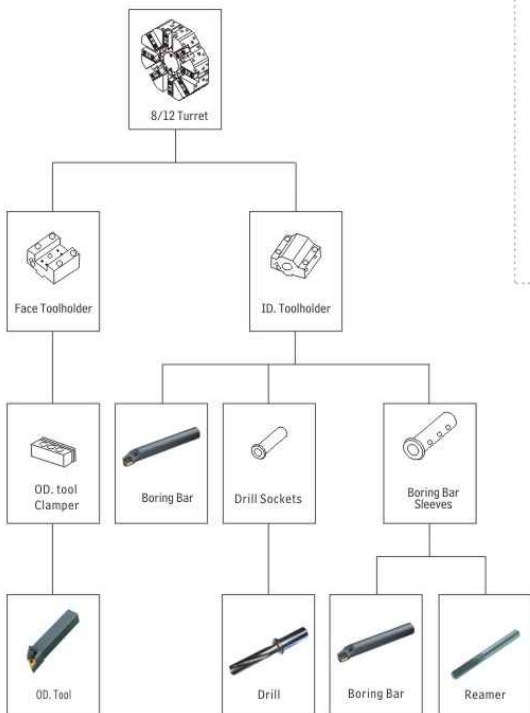


OD tool

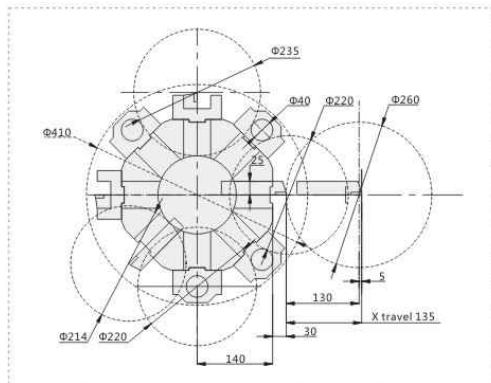


ID tool

Tooling System



Tooling Interference



Feeling The Real Power

High Speed Tool Change Turret; Heavy Cast Body;
Cylindrical Roller Linear Guideway; Large-Sized Ball Screws

This combination of rigid and agile hardware combines seamlessly with Double Channel Control System – offering two times the productivity and broadly expanded machine work capabilities and options.

Shown In The Video



<https://youtu.be/aeAoVLxDtA0>





Coordinate Measuring Machine



Spindle Runout



Guideway Parallelism



Straightness Inspection



Tempering Treatment



Giant Grinding Facility



Balancing Test



Ball Bar Test



Laser Interferometer



Natural Aging Treatment

Total Quality Management

No matter how far technology may evolve, the one ongoing concern of CNC customer is, "Will the machine make my parts, with higher productivity and without a hassle-And at a price I can justify?" Customers deserve our best effort toward always providing quality, reliability, efficiency and low cost. We have introduced the concept of TPS-Toyota quality system including **TQM**-Total Quality Management, which involves integrated control of quality, not just of the products but also service and communication, and all

processes. We are working to provide quality that exceeds customer expectations. Our machine Quality inspection process is far beyond the standard in the industry. We combine scientific process, along with disciplined procedural systems to assure the highest quality total experience for our customers.

Hand Scraping

Expert Hand Scraping at Z-MaT machines to achieve stable machining accuracy. Every Z-MaT machine conducts strict hand Scraping process by skilled technicians, realizing perfect flatness, squareness and straightness required for all surfaces and axes.



Specification and Options



Machine Outline

Options



Different Chuck



Different Hydraulic Cylinder



Chip Conveyor



Bar Feeder



Standard Features

- Hydraulic 3-Jaw Chuck
- 8-Station Turret
- Full Guard
- Work Light
- Tri-Color Alarm Light
- Automatic Lubrication System
- Automatic Coolant System

Optional Features

- 12-Station Turret
- Different Chucks and Collets
- Different CNC Control Systems
- Different Spindle Speed and Bore Dia
- Chip Conveyor
- Tool Setter
- Bar Feeder
- Gang Type Tool Holders
- Parts Catcher
- Tailstock
- Driven tool Turret

Specifications

		Unit	GT260V
Capacity	Chuck Size	inch	8"
	Max Swing Dia. Over Bed	mm	Φ580
	Max. Length of Workpiece	mm	340
	Max. Swing Dia. Over Slide	mm	Φ210
Spindle	Spindle Bore	mm	Φ62
	Max Dia. of Through Hole	mm	Φ52
	Spindle Nose	type	A2-6
	Spindle Speed	rpm	4000, *2000
	Main Motor Power	kW	11/15
Axis	X1 Axis Travel	mm	160
	Z1 Axis Travel	mm	350
	X2 Axis Travel	mm	160
	Z2 Axis Travel	mm	350
	X1/Z1 Rapid Traverse	m/min	20
	X2/Z2 Rapid Traverse	m/min	20
Turret	Turret1 Stations		8
	Turret2 Stations		8
	OD Tool Shank size	mm	25
	Boring Bar Size	mm	Φ40
Others	Slant Bed Degree		90°
	Guideway Type		Linear Motion Guideway
	Power Capacity	KVA	20KVA
	Overall Dimension	mm	2850x1850x2300mm
	Weight (About)	Kg	7000Kg

Note: "*" means optional.

Z-MaT

Smart CNC Solutions

Precautions:

- ▶ Contact Z-MaT Sales Office for questions regarding catalog content.
- ▶ Catalog content is subject to change without notice. Z-MaT is not responsible for typographical errors.
- ▶ Images may show base machines with added optional equipment.
- ▶ Specified bar feeder capacity matches the specified through hole capacity on hydraulic chuck and collet machine configurations. Bar capacity and spindle bore are the same diameter on machines with manual chucks.
- ▶ Actual machine standard features may differ in some details from machines shown in catalog images. This includes the size and dimensions of name plates and other labels.
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