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TM series

Multioperational turning milling centers

Rich lines of products along with years of trust and performance won by TM series of turning-milling combined machine tools

- Further enhanced processing speed and precision by loading just one card for the full machining steps
- High production efficiency by high-rigidity structure and high-power turning and milling spindles
- Larger Y-axis travel for wider range of target workpiece

Advanced multi-function machine tool running entire processing cycle by loading the magazine just once



(TM-2500S)

Lathing-milling combined machine with multiple processing functions and super cost-effectiveness

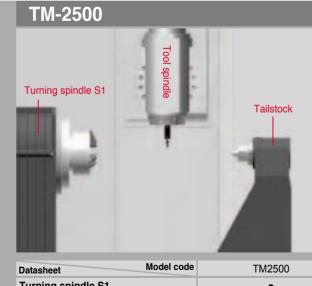
Improve production efficiency and profitability by shortening the processing time.



Vortex



Generator enclosure



Datasheet	Model code	TM2500
Turning spindle S1		•
Turning spindle S2		—
Tailstock		•
Turret		—
Tool spindle		•

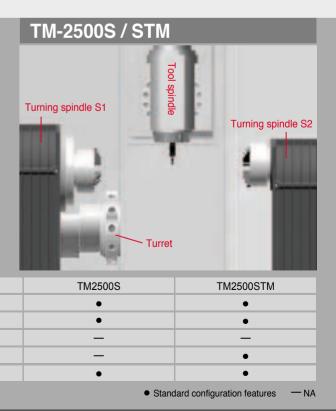




CAPTO cutter handle

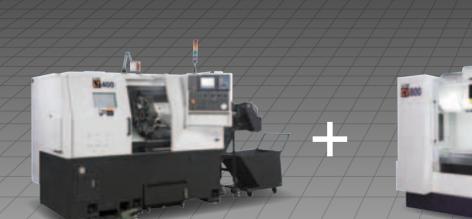


Blade



A Revolutionary Machine Smart and Integrated Design

One-Process Loading. Multi-Face Machining. Intensive Engineering. **Composite Machining.** High Precision. High Efficiency. **Creating Higher Productivity.**



CNC Turning Center



Vertical Machining Center

TM-Series composite model brings the following benefits:



- Lower fixture cost

Lower labor cost







- Lower power consumption
- Lower workpiece loading/unloading cost
- Reduced cycle times
- Lower transportation cost

A Revolution of Factory Operation





Solid basic structure

Solid machine base design provides the cutting rigidity required by your machine



Technical Highlights



Optimal cutting conditions

Achieve maximum machining efficiency in milling and turning Designed with the same milling capacity as the machining center.

X/Y/Z axis and B/C axis optical linear scale op

User-friendly HMI interface. Easy operation. Standard equipment of FANUC controller to achieve safe operation and shorten the adjustment time.

Maximize the machine capability

Optimized processing conditions with Siemens Shop mill (conversation processing program)

10



Flexible machining through all directions

Wider Y-axis travel: 250mm Max. working diameter: Ø 500mm

One machine to perform turning and milling at the same time.

Shorten the working time to the minimum.

Larger working range and less interference.

Equal machining range is provided for the 1st and the 2nd turning spindles.

Maintain stable machining precision in longer term

Spindle thermal compensation system

Thermal drift inhibiting system for guideways of X/Y/Z axis.

Shorten the production cycle through convenient first article machining

The machining conditions are optimized by the use of FANUC Manual Guide!

Tailstock reverse-pulling System

Enhance the rigidity for cutting long workpiece.

Achieve optimal efficiency for cutting thin workpiece, such as blade cutting.

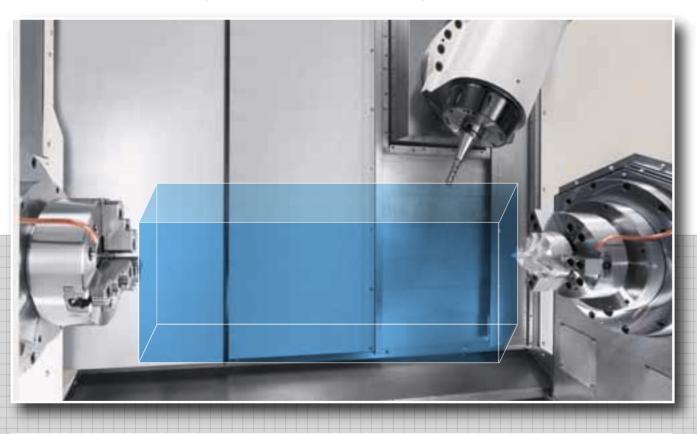
Combine range of requirements into one ultimate and multi-function machine tool

High precision, high rigidity, high function, process integration

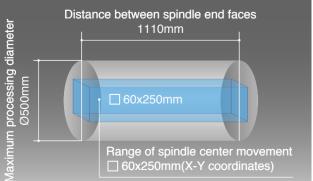
Composite machine center

The high-precision, high-efficiency multi-tasking TM series featuring thermal deformation reduction and compact footprint design are ideal for making small, high-precision, and complex geometry components employed by medical and measurement devices. Thanks to its turning and milling combined processing technology this machine is capable of single-mounting based high-precision machining.

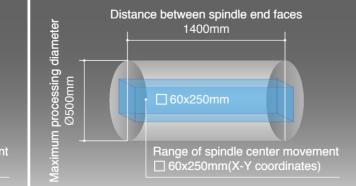
The next-generation machine featuring high-precision, reduced fixture requirements, lower labor costs and smaller footprint by cutting tool preparation time, scheduling, and delivery time.



TM-2500



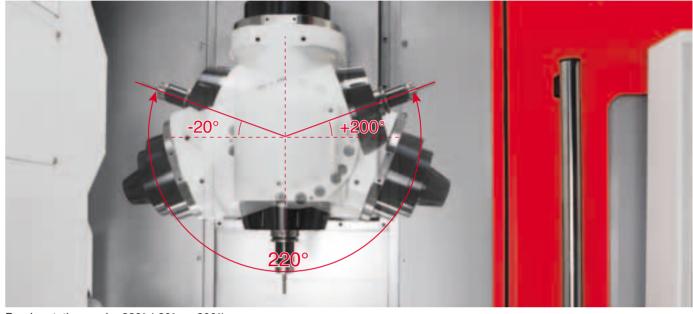
TM-2500S



Wide Machining Scope

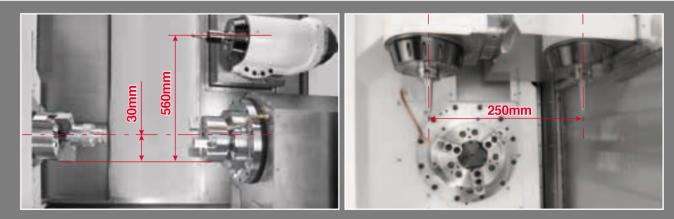
Ultra-wide B-axis rotation range: 220°

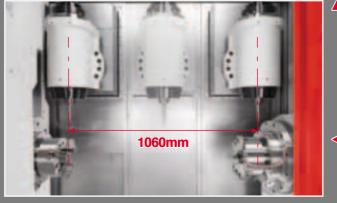
Ultra-wide B-axis rotation range (220°) enables both the primary and the secondary spindle (optional) featuring the same machining area. The B-axis drive in the NC-B axis specification employs slicing precision up to 0.001° to enable high-precision 5-axis interlocking.



B-axis rotation angle: 220° (-20° ~ +200°)









▲ Y-axis movement: 250mm (±125mm)

X/Y/Z transfer momentum
 560 / 250 / 1060 + 93mm (TM-2500S)

Turning-milling spindle





Featuring high production efficiency, this turning and milling spindle may provide highly efficient machining with smaller machining center equivalent and comprehensive turning and milling capacity.

Highest machining efficiency regardless of milling or turning Excellent machining efficiency for hard to cut materials







Turning



Powerful turning and milling spindle

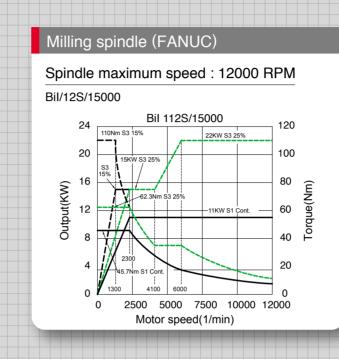
It may address the first spindle for a wide variety of workpieces

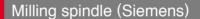
The turning spindle featuring a built-in motor is a high-performance spindle addressing the needs from high-speed and high-precision processing for smaller workpieces to medium and high-speed machining cutting of non-ferrous metal. Stable positioning accuracy with exclusive C-axis lock system.



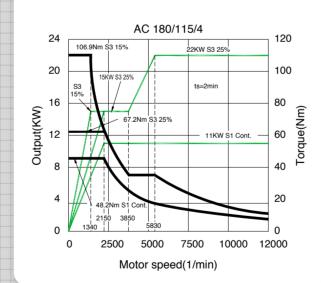
The second spindle that enables continuous scheduling 1 and 2

Spindle torque / output-rotation speed diagram



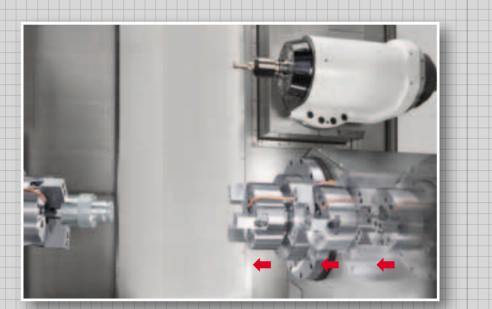


Spindle maximum speed : 12000 RPM AC 180/115/4



Same as spindle 1, the spindle 2 comes with built-in motor for turning and milling.

 Continuous processing can be performed up to the finished product for improved machining accuracy.

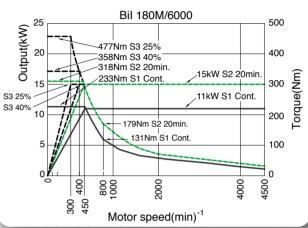




Turning spindle (FANUC)

Spindle maximum speed : 4500 RPM

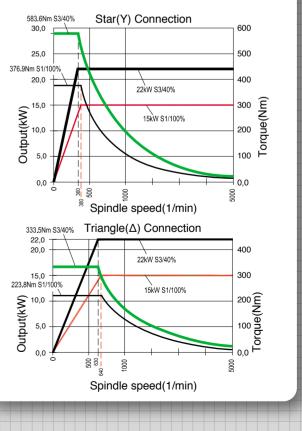
Bil/180M/6000



Turning spindle (Siemens) S1, S2

Spindle maximum speed : 4500 RPM

AC 300/240/8



B/C-axis with high slicing accuracy

B-axis slicing accuracy

The high-precision and highly-dynamic transmission system and high-precision optical ruler configuration (OP) provide high slicing accuracy for the B-axis.

			TM-2500	Accuracy and Repeatability B-AXIS							
	ISO standard	LITZ STD. Actual performance figures									
	Bidirectional positioning accuracy	14 seconds	4.61 seconds	tr (arc-se							
B-axis	Repeatability of one-way positioning (positive)	4 seconds	Ъ- ⁻⁵ Ш-10								
	Repeatability of one-way positioning (negative)	4 seconds	2.42 seconds	-15 0 50 100 150 Target (degrees)							

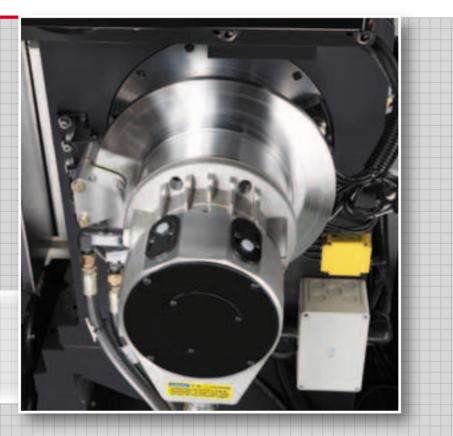
(Note) These figures of precision are subject to IS-230 experimental method, environment at ambient temperature of 22°C±1°C, and machine mounted on foundation built in compliance with codes of this company.

High-precision positioning control of C-axis

The first and the second turning spindle are equipped with high-precision C-axis with high-precision scale for high-precision machining of complex geometry workpieces while the high-rigidity machine bed supports high precision and high efficiency machining.

C-axis slicing accuracy

Featuring high-precision decoder for high-resolution C-axis slicing for high positioning accuracy.



NC tailstock (TM-2500)

Standard configuration: programmable drive force switch command

Either coarse or fine machining, the entire process can be executed continuously with the optimum driving force by programming the NC tailstock.

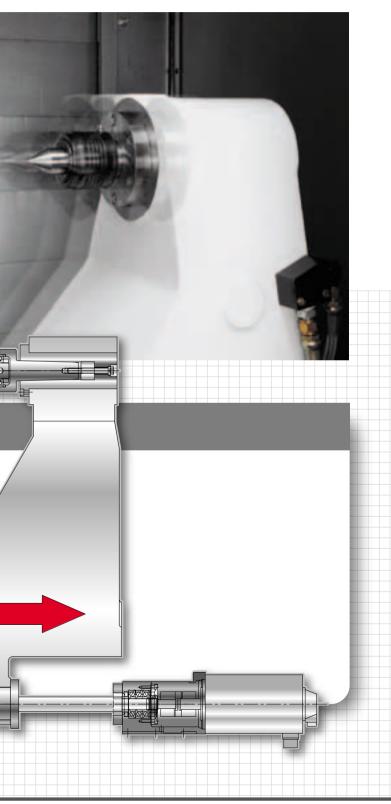
Large stroke NC tailstock The W-axis tailstock stroke of 910mm can be handled from long workpieces to short-sized workpieces, expanding the processing range.

Tailstock backward pulling system (TM-2500) OP

Unique tailstock backward pulling system is ideal for thin, slender or long workpiece machining. Raises workpiece rigidity during machining

%Patented

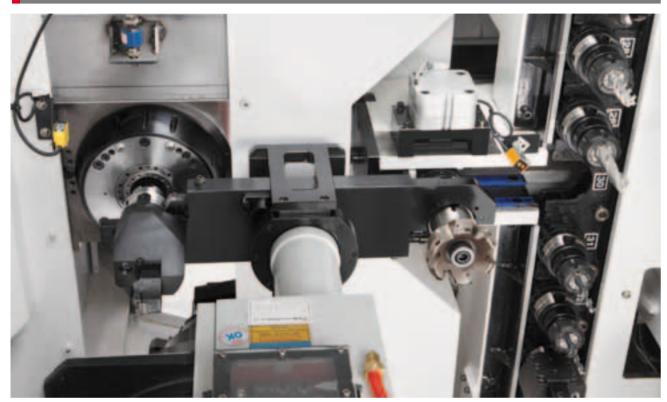




Automatic tool changer

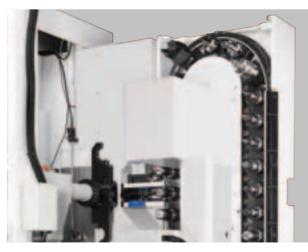
ATC System

High speed tool changer



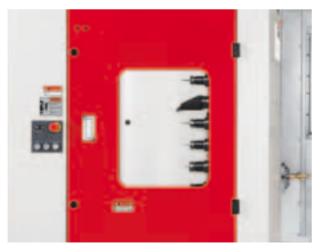
The high-speed tool changer employs cam mechanics to enable fast and reliable tool changes for high-efficiency machining.

Tool Magazine Unit



Capacity of standard tool magazine may contain up to 36 cutters while the optional one has 72 cutters. The TM-2500 series may select tool specifications according to customer requirements.

Tool magazine for tool exchanges at the front of machine



Tool magazine located in front of the machine for easier tool exchanges and status monitoring.

Automatic feeder system and chip discharger



		Wo	orkpiece i	materials a	nd chip s	ize					
Technical parameters		Stee	1	Cast	Aluminum, non-ferrou						
	Long	Short	Powder	IronShort	Long	Short	Powder				
Hinged	•	-	-	-	•	-	-				
Hinged + scraper + cylinder	•	•		•	•						

workpiece machining.





Chip size reference

Short : chips are no more than 50mm long and diameter of chip clusters no more than 40mm Length : greater than the above size



Online measurement system (Blum) OP

Meet the multi-task requirements of turning and milling integrated machine; combining the advantages of two measurement technologies in one sophisticated system.



- Measure rotating tools with laser beam (without physical contact)
- · Measure non-rotating tools (turning tool) with contact measurement
- The laser beam was calibrated before delivery for easy installation
- Good economy performance as one system suffices measuring both turning and milling tools

Wide range of options for you to create a high efficiency machining system

Parts Catcher OP



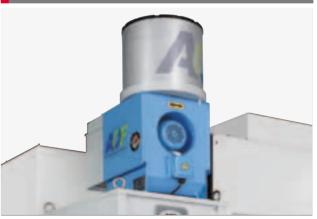
Organize workpieces (of dimension up to ø65mm X130mm X 2kg) in mixing box in front of the machine.

Collet Chuck OP



Equipped with various chuck devices suitable for holding a wide range of bar workpieces.

Oil Demister System OP



Your machine featuring smoke outlet to connect to external oil mist collection system and easier centralized management at customer workshop to prevent oil mist from hampering the workshop environment.





Your niche

- Raise output and quality
- · Eliminate damages due to broken cutters
- Reduce downtime for setup and enable
- unmanned operation
- · Reduce product scrap rate



36-tool magazine / 72-tool magazine OP



Applicable with multiple types of workpieces; select magazine for 72-tool for long time machining.

Coolant thru spindle

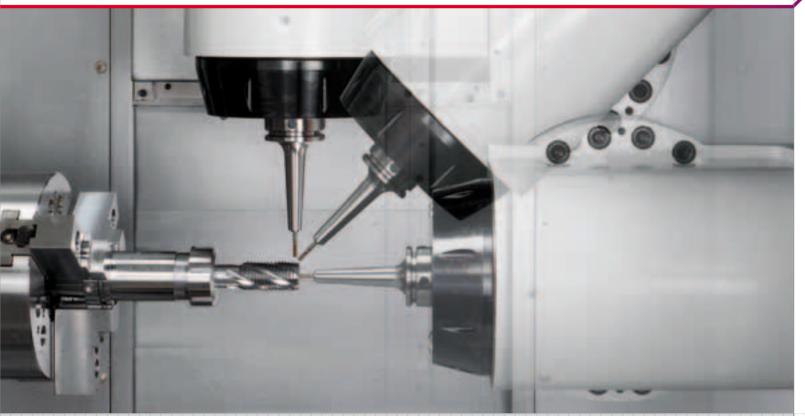


High-pressure cooling system to fill the cutter tip with coolant at pressures up to 70 bars.



Milling cutter tooth machining.

High performance composite processing machine



Rich machining functions and multi-process integration



Face turning and D-turning

External milling and turning



Outer circular slot and cam machining



Eccentric drilling



Bevel milling cutter bevel drilling Hob and milling cutter tooth machining



Hor

Processing example





Automobile industry



Construction machinery

industry



Industry and application mold manufacturing

Auto industry





Home appliance





nformation and

communication

equipment industry



Mold manufacturing industry



machinery

industry



Home appliance industry



Residentia equipment industry



Mechanical industry

Aviation and power generation

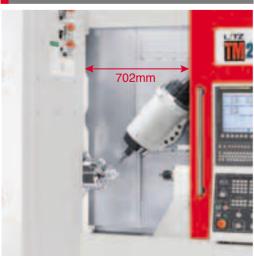
Perfect Ergonomics and Optimal Approaching Performance

The machine is designed for the convenience and accessibility of operation. Based on the ergonomics, designed from the viewpoint of an operator, such a user-friendly design enables easy change of tools and workpieces.



Improve the efficiency of preparation time. Magazine located in front of the machine, it can shorten operator's moving distance and improve work efficiency. Large magazine capacity in order to meet multitask.

Wide front door



Swivel CNC Controller 4 Panel UTZ Standard equipment includes revolving controller with 15" large screen. 2500

3

TM series Max. Tool Length : 250mm Max. Tool Diameter : Ø90mm

Max. Tool Weight : 5 kg

Large Window for Easy Observation of Workpiece Set Up and Status

The width of the door opening is large enough to ensure easy accessibility, operation and maintenance.



The design of large window improves the performance of visual observation. Large window provides easy observation of the cutting status and better accessibility for adjustment if needed. Therefore, operation efficiency can be enhanced. The maximum opening width of the window can reach 710 x 600mm.



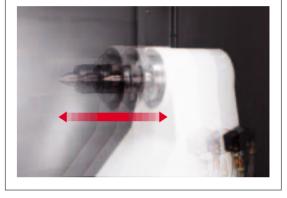


NC Controlled Automatic **Traveling Tailstock**

6

The display of CNC tailstock preparation can easily memorize the thrust force. Through M-code command, it can correctly move to the programmed position.

In the meantime, the thrust force can be easily set through the softkey on the menu or M-code with the unit of 0.1KN. It not only enhances the operability but also simplifies the tailstock preparation procedure.





Excellent Accessibility of Spindle and Workpiece

The position of the spindle-located at 1150mm above the ground-and close distance of the center of the chuck-388mm-enable easy work of loading and unloading of workpiece. (TM-2500)

5

Convenient Service and Maintenance

The functional systems are deployed on both sides the machine for the convenience of daily mechanical maintenance, inspection and repairs.

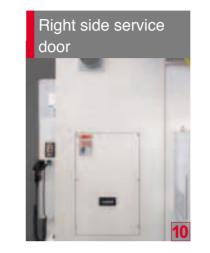


Spindle Cooling System









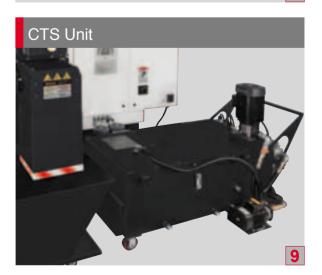








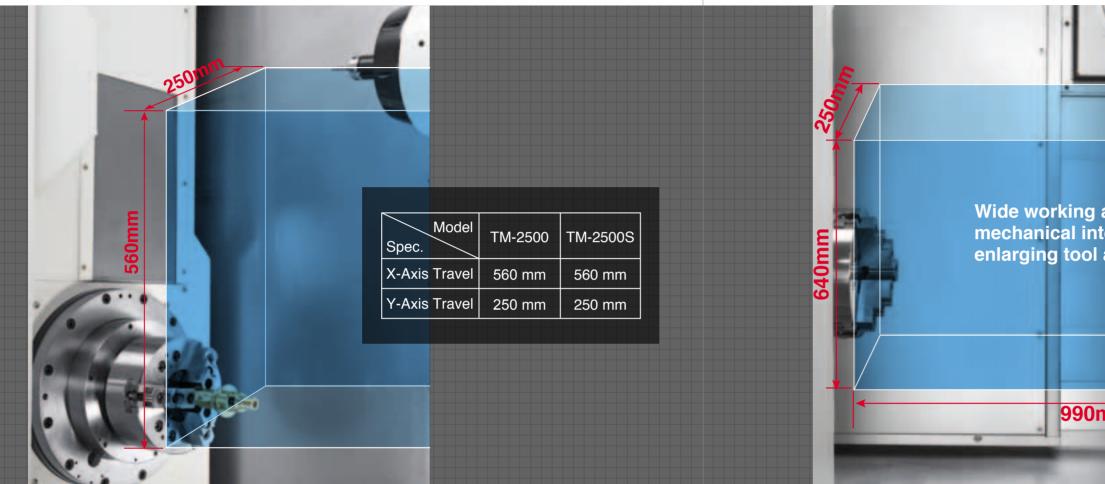




Longer Travel Allows Easier and Comfortable Operation

Flexible Machining from Each Direction

With longer travel, it releases the unsafe feeling due to possible collision when preparing the tools.



Larger spindle unit and tool space are realized in the absence of interference

Through the design of milling spindle unit (Y-Axis : Home; B-Axis : 0°), the collision can be avoided between the chuck and the tool tip.





Stable high-precision detection and control

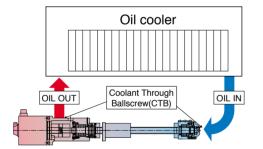
Laser detection



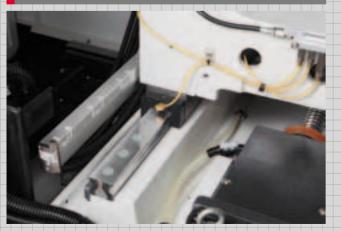
Linear and rotary axis are laser inspected to get error value and compensated with NC to ensure high precision repetitive and positioning and workpiece machining.

Three-axis guide rod hollow cooling system

The 3-axis transmission guide rod system employs hollow cooling design to minimize heat and thermal expansion of ball screw during high-speed operations with cooling oils to balance high speed and high precision at the same time.

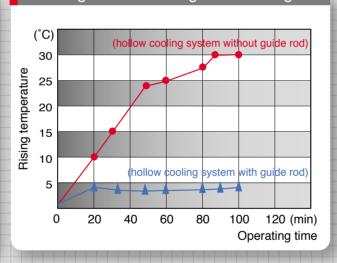


Optical Linear Scale OP

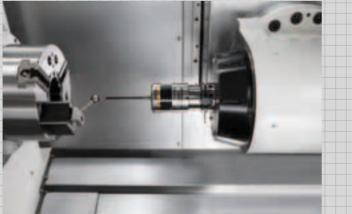


X/Y/Z/B/W/C axis

Hollow guide rail cooling benefits diagram



Turning and milling axis (B/C) center calibration system

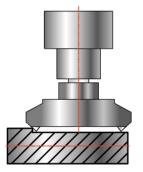


Processing capacity

Milling Application



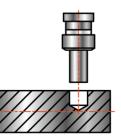
Milling (tool spindle)



	· /		((min ⁻¹)
Ø50 (4-piece cutter)	40	3	0.53	1300

Work materials : S45C

Drilling (tool spindle)

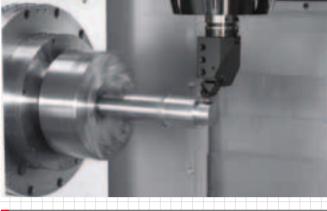


Drilling diameter	Feed rate	Speed
(mm)	(mm/rev)	(mim ⁻¹)
Ø20.5	0.1	

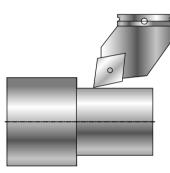
Work materials : S45C







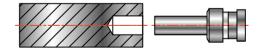
Turning



	Turning cross-sectional area (mm)	Feed rate (mm/rev)	Speed (min ⁻¹)
First spindle	5.5	0.2	730
Second spindle	5.5	0.2	730

Work materials : S45C

Drilling (turning spindle)



	Drilling diameter (mm)	Feed rate (mm/rev)	Speed (mim ⁻¹)
First spindle	Ø20.5	0.1	1300
Second spindle	Ø20.5	0.1	1300

Work materials : S45C

Power Saving Program of Integrated Machining

Before

- In the past, the machining of complicated workpieces can only be achieved by using both CNC lathe and machining center.
- Now with an integrated production center of high-efficiency, the work can be performed collectively to significantly reduce operating overhead.



New

- Intensive engineering to use less equipment.
- · Shorten the machining time to significantly reduce the overhead.
- Overall manufacturing costs can be sustainably reduced, including tools,
- equipment, labor and indirect expenses.

Annual power consumption (capacity <KW>)

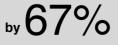


After improvement Electricity is reduced by

₀y**43%**



After improvement Machining time is shortened



An Environmental-Friendly, Power-Saving Machine

Effective Utilization of Limited Resources and Environmental Protection:

TM-Series use a variety of energy-saving design techniques to protect the environment.

To Promote Energy Saving

- The internal lighting is designed with automatic shutoff function.
- The chip conveyor stops automatically when the automatic operation program is completed.
- The heat exchanger remains inactive if temperature inside the electrical cabinet does not reach the threshold.
- Use LED lamp.
- The working lamp goes off automatically when the doors are closed.
- Use M-code (M08/M09) to activate or deactivate the Oil Mist Collector.
- · Automatic power cut-off function.

Superb eco-friendly, energy-saving design



Power Consumption Monitor

The ammeter can be installed on the machine in order to elevate the energy saving awareness of an operator.



After improvement Annual power consumption:

745кwн



Driven by Environmental Protection

- · Use Oil Mist Collector.
- When the axis stops, the system will stop supplying lubricant oil.
- The machine is tightly enclosed by sheet metals to reduce noise and diffusion of oil mist.
- In-line transmission design to reduce noise and loss of power.
- Use steel pallets, instead of wooded pallets, for machine delivery so they can be reused.
- · Use grease lubrication system.

Delivery by steel pallets + container transportation

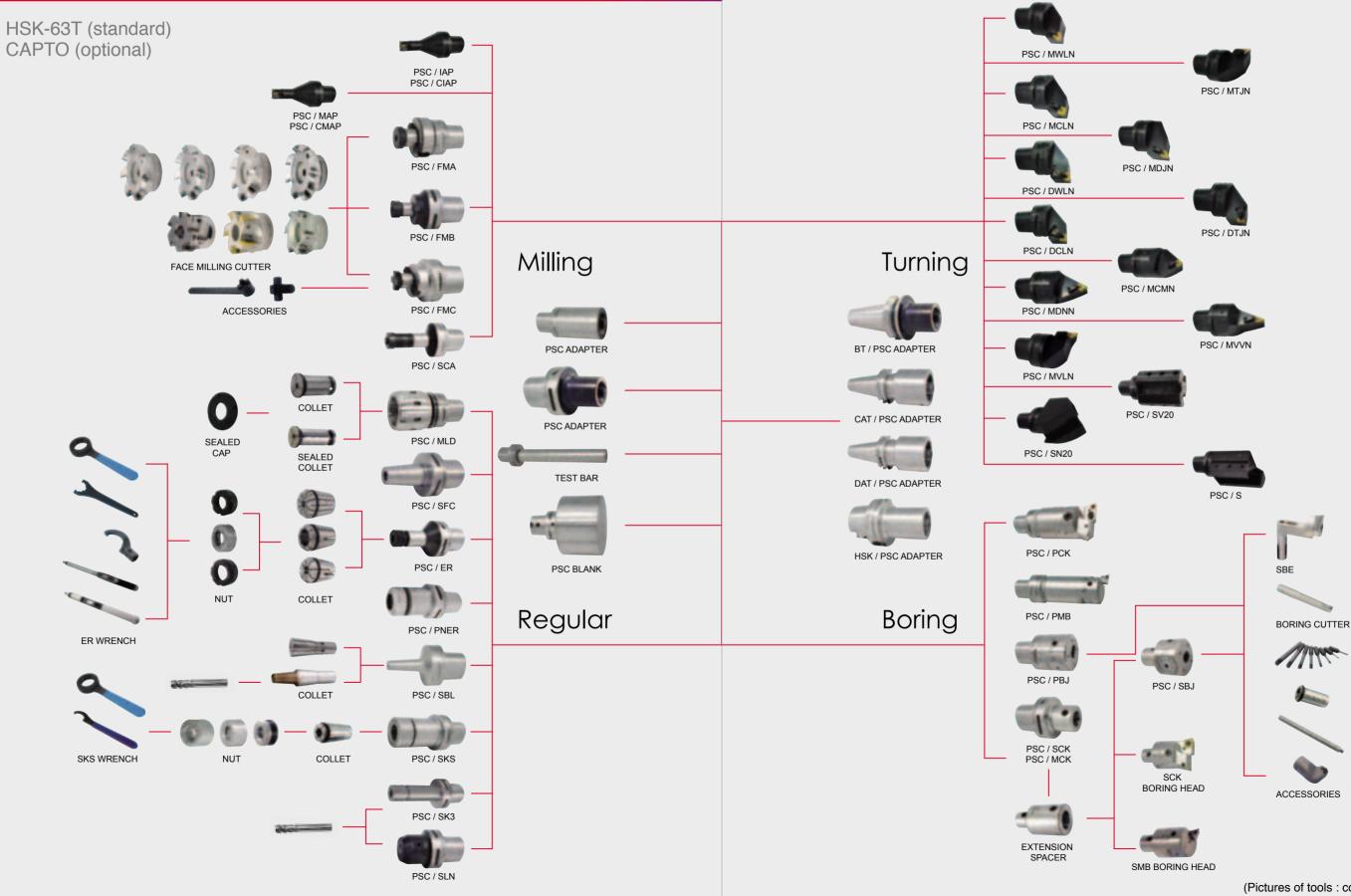




After improvement Emission reduced by



Tool system diagram











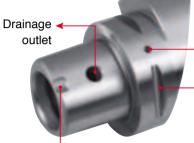




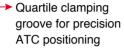


(Pictures of tools : courtesy of Chain Headway)

CAPTO tool features and high pressure cooling system OP



Alignment point for working with constant diameter/reducer sleeve



→ Spindle positioning groove



- High precision
- Very good balance and concentricity
- Extremely high torque transmission capability
- Direct coolant injection at cutting edge
- Very stable when using large overhanging tools
- Ability to withstand high axial forces
- Quick tool exchange
- Modularization based flexibility
- Automatic tool exchange
- Virtually unlimited spindle speed
- No weak section in existence, e.g. keyways
- Use internal cooling tools
- Excellent bending rigidity
- Large axial clamping force
- Tighten or loosen the module with a mere half turn
- Easy module assembly and disassembly
- Hydraulic tensioning: magazine embedded clamping slot for mechanical clamping

Four-sided contact

- High clamping rigidity
- High clamping precision and stability
- Long service life
- Good operability
- Strong versatility
- 1:20 slope and three sides restraining flange slope
- 2.8624 (self-locking at small slope)
- Triangular polygonal bevel drive
- Modular combination based internal thread holes
 PSC tool shank employs quartile instead of ring holding grooves to enable precision positioning for ATC operation

Lathe machining high efficiency fast exchange

 Share of cutting time spent in lathe machining account for one third of the total time with the remaining two-thirds consumed by machine inspection and preparation, cutting tool and workpiece inspection, and workpiece exchanges.

- Average tool exchange time when using the original cutting tools: 8.5 minutes.
- Average time consumed by for tool cutting tool blades: 2.5 minutes.
- Reduce the aforementioned exchange and positioning time to an average of 1 minute with the PSC cutting tool quick
- exchange system.
- Reduce annual cutting tool exchange and blade positioning time down to 50~200 hours.
- Raise production efficiency by 25% odd

High pressure coolant system - green light production

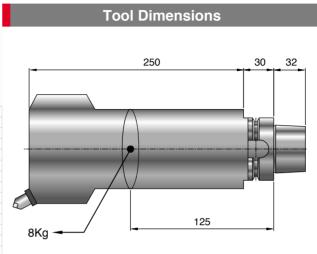
High pressure cooling has become the standard options for most advanced CMC lathes and multi-function machines. The CAPTO device automatically delivers coolant to the nozzle. These high precision nozzles precisely inject coolant to the appropriate position on the blade to create "hydraulic wedge" between the chip and the rake face of the blade.

This benefits the following:	
Good chip control	result in less machine downtime
Fixed high precision nozzle	result in safer machining process
Extend tool life	by 50%
Increase productivity	by 20% faster cutting speed

Investment in high-pressure cooling function of machine tool is small in amount and quick in return. The use of CAPT0 is the key factor for the machining industry's success toward safe and high efficiency manufacturing. That is, apply optimum tool-machine interface in a safe and high efficiency solution to ensure your success in the future.

Tool System

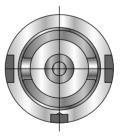
Tool Dimensions Diagram

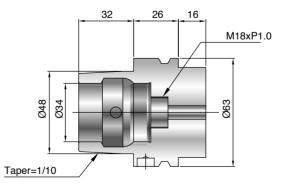


Weight inclusive of Holder, Chuck, Collet and Tool.

Tool Shank Dimensions

HSK-63T

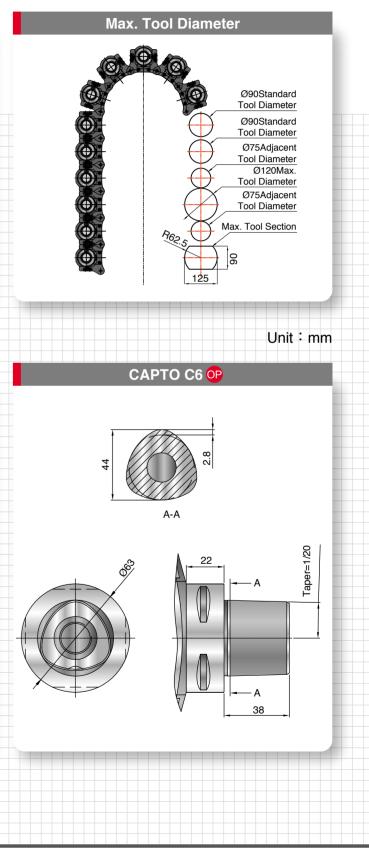




38

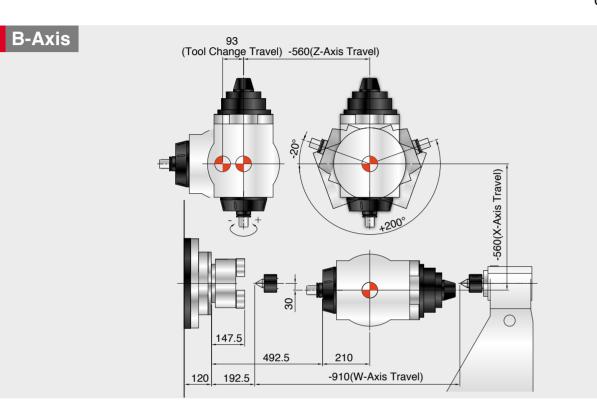


Unit:mm



Working Area Diagram

TM-2500

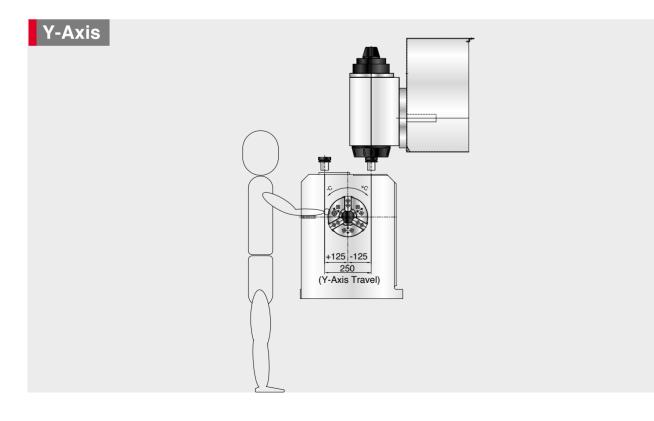


Unit : mm

B-Axis

TM-2500S

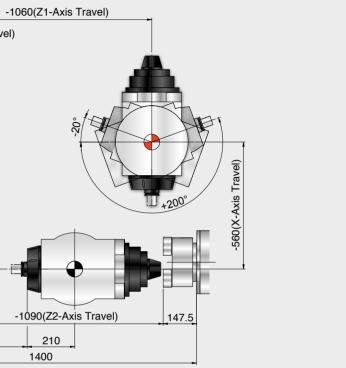
Unit:mm



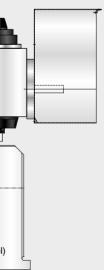
Y-Axis



Unit : mm

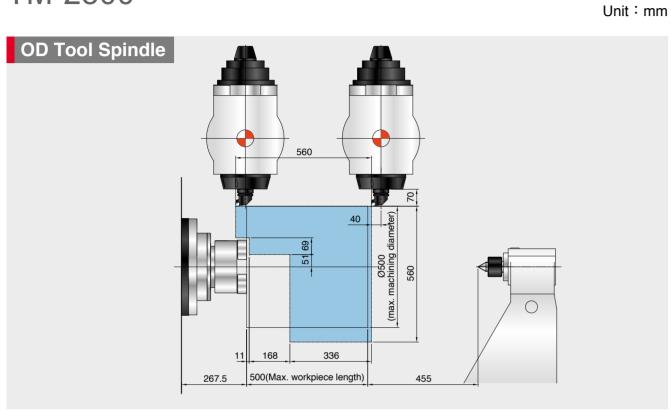


Unit:mm

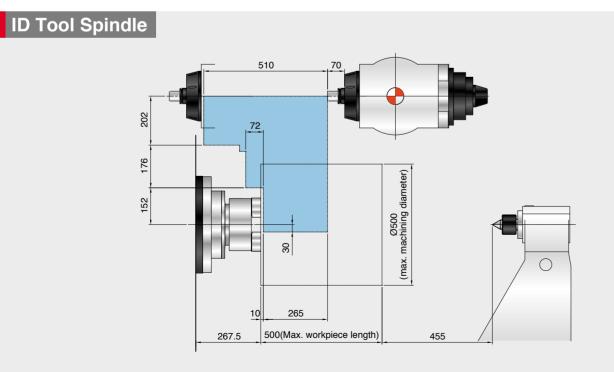


Movement Area

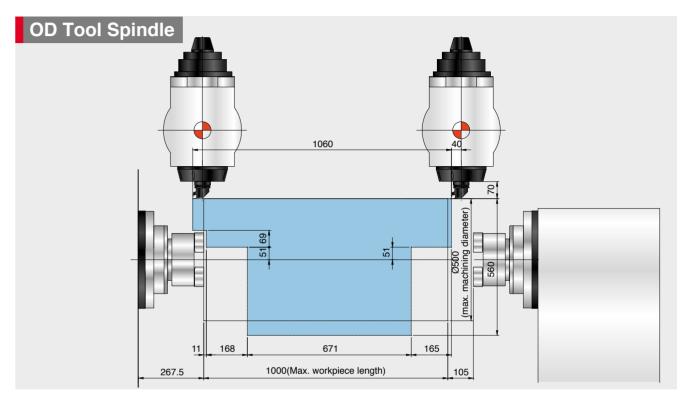
TM-2500



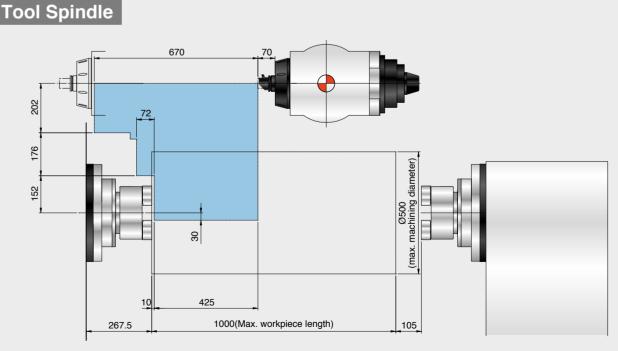
Unit : mm



TM-2500S



ID Tool Spindle





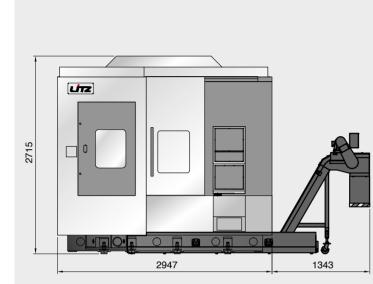
Unit : mm

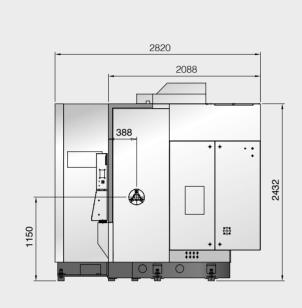
Unit : mm

Machine Dimensions

TM-2500

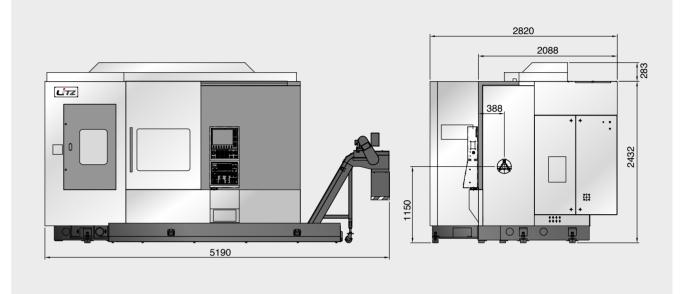
Appearance Dimensions





TM-2500S

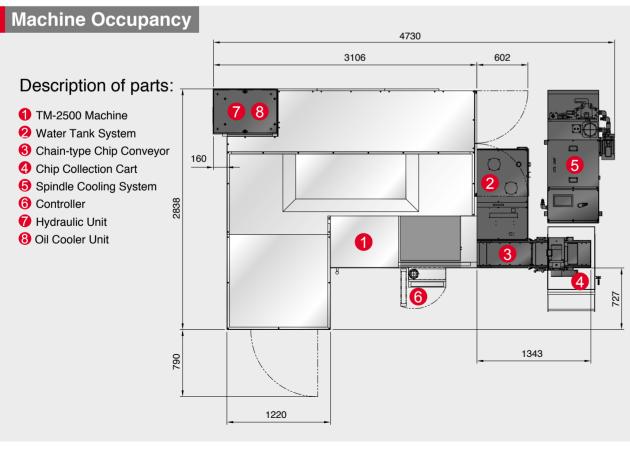
Appearance Dimensions



Machine Occupancy

Unit : mm

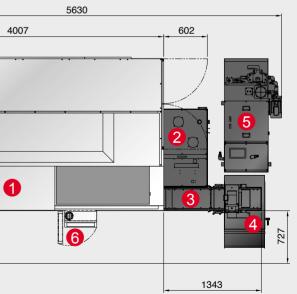
Unit : mm





Unit : mm

Unit : mm



Machine Specifications

	Item	Unit	TM-2500	TM-2500S
	Max. swing dia.	mm	Ø530	Ø530
Capability,	Max. Machining Diameter	mm	Ø500	Ø500
Capacity	Max. Machining Length	mm	500	1000
	Max. Bar Diameter	mm	Ø65	Ø65
	X-Axis Travel	mm	560	560
	Y-Axis Travel	mm	±125	±125
	Z1-Axis Travel	mm	560+93	1060+93
Travel	Z2-Axis Travel	mm	-	1090
	W-Axis Travel	mm	910	-
	B-Axis Rotating Angle	degree	-20°~200°	-20°~200°
	C-Axis Rotating Angle	degree	360°	360°
	X-Axis Rapid Feedrate	mm	36	36
	Y-Axis Rapid Feedrate	mm	36	36
	Z1-Axis Rapid Feedrate	mm	36	36
Feedrate	Z2-Axis Rapid Feedrate	mm	-	24
	W-Axis Rapid Feedrate	mm	8	-
	B-Axis Max. RPM	RPM	25	25
	C-Axis Max. RPM	RPM	250	250
	Chuck Dimensions S1		8"	8"
	Chuck Nose Type S1		A2-6	A2-6
	Hole Diameter S1	mm	Ø75	Ø75
	Spindle Max. RPM S1	RPM	4500	4500
Turning	Motor Output Power S1	KW	15/22	15/22
Spindle	Chuck Dimensions S2		-	8"
	Chuck Nose Type S2		-	A2-6
	Hole Diameter S2	mm	-	Ø75
	Spindle Max. RPM S2	RPM	-	4500
	Motor Output Power S1	KW	-	15/22
Milling	Spindle Max. RPM	RPM	12000	12000
Spindle	Motor Output Power	KW	11/22	11/22
	B-Axis Min Indexing Angle	degree	0.001°	0.001°
	Tool Indexing Angle/Position		90°/4 positions	90°/4 positions
	Tool Type		HSK-63T	HSK-63T
Teel	Tool Magazine Capacity	Т	36	36
Tool Change	Max. Tool Diameter (Without adjacent tool)	mm	Ø90(120)	Ø90(120)
	Max. Tool Length	mm	250	250
	Max. Tool Weight	kg	8	8
Quill-Type Tailstock	Quill Type		MT5	-
Controller	Model		SIEMENS840D	SIEMENS840D
	Machine Height	mm	2715	2715
Machine	Occupancy(Without chip conveyor)	mm	3106x2838	4007x2838
Dimensions	Machine Weight	kg	9200	11000
Energy	Power Capacity	KVA	35	42
	i onoi oupdony	IXV/X	00	74

Machine Specifications

• Standard o Opt	ional 🛧	Please	inquire
Spindle System	Т	M-2500	TM-2500S
1st Turning Spindle Max. Spe	ed 4500RPM	•	•
2nd Turning Spindle Max. Sp	eed 4500RPM	-	٠
Milling Spindle Max. Speed 1	2000RPM	•	•
Milling Spindle Max. Speed 1	8000RPM	0	0
Chuck 8"		•	•
Chuck 10"		0	0
Sleeve Chuck(Ø60)		0	0
NC Tailstock			
Quill-Type Tail Stock (W-Axis	;)	•	-
Rotary Quill		•	-
Fixed Quill		0	-
Tailstock Reverse-Pulling Sy	stem	0	-
High-Accuracy System			
X/Y/Z Axis Qptical Linear Sca	ale	0	0
X/Y/Z Axis Guideway Hollow	Cooling	•	•
B-Axis Optical Linear Scale		*•	*•
C-Axis Encoder		•	•
Spindle Oil Cooling System		•	•
Measuring System			
Turning / Milling Tool Measur	ing System (BLUN	(N) (N)	0
Workpiece Measuring Syster	n	0	0
B/C Axis Central Calibration	System	★ ∘	★ ∘
F			
Environmental System		-	
Oil Mist Collector Device		0	0
Coolant			
High-Pressure Coolant Syste	m (18Bar)	•	•
High-Pressure Coolant Syste	m (70Bar)	0	0
All the photos contained actual machine shall prevention of the right for the rig	/ail.		-

• LITZ reserves the right to modify the product specifications, appearance, equipment or discontinue the products.



Controller System	TM-2500	TM-2500S
FANUC 31i-B (4+1)	0	0
FANUC 31i-B5 (5 axes simultaneous)	0	0
SIEMENS 840D (5 axes simultaneous)	•	•
Chip Management		
Chain-type Chip Conveyor	★•	★•
Chip Collection Cart	•	•
Automation System		
Rod Automatic Feeder	0	0
Workpiece Arrestor	0	0
Automatic Front Door	0	0
Tool Magazine System		
Storage Number 36T	•	•
Storage Number 72T	0	0
Tool Specifications		
HSK 63T	•	•
CAPTO C6	0	0
Machining Function		
Tooth Milling Function	0	0
Safety Measures		
CE Specification	0	0
Dual-link Pedal Switch	0	0

se of any discrepancy with the actual machine parts, the

Showroom Center and Technical Support





Nation-wide Sales and Service System





5S Stores Around the Country

(Sales, Service, Showcase, Service and Spare Parts, Technical Support)

LITZ Machinery provides demonstrations and services within an arm's length.

The marketing system from LITZ Showcase Center reflects LITZ's commitment to customer service. The well-established, fast and professional technical support, along with adequate equipment supply and well-organized training systems assure excellent machine operation. This is the priority concern for the majority of our machine customers.

The concept of the LITZ Showcase Center is to create a close relationship among the machine manufacturers, machine dealers, and customers. In addition to showing the latest products from LITZ, the center is also equipped with a CNC training workshop and spare parts warehouse. The professional technical teams provide training, maintenance, accessories and sales to our customers to achieve a comprehensive and thoughtful one-stop service.



Jiaxing LITZ



Taiwan LITZ

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