Globally trusted CNC machine tool manufacturer

汽车行业　航空配件　医疗行业　机械行业　新能源行业

TELFORO CNC Machine Tool

Machining Center Series

Five-axis machine series

Profile Machine Series

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High-tech enterprise　ISO 9001

※Note: Due to the continuous research and development of our company's technology, some model parameters and technical specifications in the sample may change. The specific specifications are subject to business negotiations. The image parameters in the sample are for reference only.

Focus on the research and development and manufacturing of high-end machining centers

COMPANY PROFILE

TELFORD brand inherits the rich experience and design philosophy accumulated by Taiwan's Delfu CNC machine tool for decades, and aims to further expand its marketing market in mainland China. Some mass-produced models are assembled and debugged by Taiwanese technical directors, and the assembly process is closely monitored and tested to ensure the reliability and stability of the machine tool in customer use. The Taiwan headquarters will focus on the research and development of new products and the trial production of new products, and pursue a leading role in the market. In the research and development process, it will constantly draw on the essence and inspiration of internationally renowned machine tool brands such as Japan.

The company's products have been introduced with advanced design concepts and manufacturing technologies from Europe, America, Japan, and other regions, combined with professional talents in their fields, to launch a full range of machining centers, high-speed drilling and tapping machines, gantry-type high-speed machining centers, and high-performance profile machining centers. The company's product customers have covered high-end industries such as automobile manufacturing, electronic communication industry, precision mold manufacturing, high-speed railway accessories, aerospace industry, etc.

With the increasing recognition of customers, we are driven to continuously develop new products that are more advanced and better meet customer needs; create greater value for customers, enhance their product competitiveness, and achieve win-win cooperation.

Customer on-site selection

600+

20+ Years of Manufacturing Experience

50+ Exporting country

60+ Honor Witness

TELFORD Changrong Factory

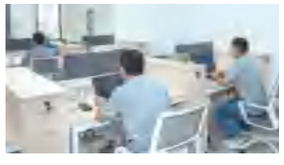
TELFORD Suzhou Factory

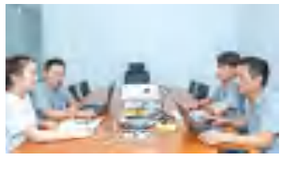
Precision Manufacturing Drives the Future

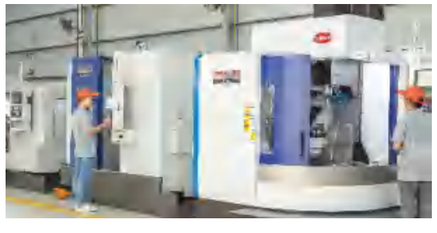
The company adheres to the business philosophy of "people-oriented, excellence, customer first". All products are dedicated with utmost sincerity. Technology is not a matter of concern, but rather a means to create infinite possibilities. Pursuing clarity, Tiefu will provide customers with quality products and services with extraordinary capabilities. We will work together with customers to contribute to the development of Chinese manufacturing.

Hardcore strength · Comprehensive guarantee

- Process certification:
  ISO9001/AS9100 aviation quality system certification
- Detection system:
  three-coordinate measuring instrument
  + laser scanner dual quality inspection barrier







HONORARY

Honor witness, quality inheritance

National high-tech enterprise certification, 1509001 international quality system certification, 20+ invention patent certificates... Every honor is our persistence in precision, and every honor is positive recognition from all sectors of society. It is quality, detail, conscientiousness, and persistence that make the brand more vibrant. It is standards, responsibility, honor, and mission that spur us to carry the past and create the future. Products are exported to 30 countries worldwide, witnessed by over 500 manufacturing enterprises. One solid footprint after another inspires us, not only with the belief of perseverance and lifelong pursuit, but also with the destination that must be reached!

8 invention patents | **6** national institutions have been awarded certificates | **48** authorized patents and software copyrights

Create a Chinese national brand; build a century-old enterprise

Third-party organization certification management system	Certificates awarded by national institutions and local governments	Number of patents granted: 15+
Is09001 Quality Management System	High-tech enterprise	An adjustable tool post device for lathe
CE certified lathe	Technology-based SMEs	A structure of sliding material receiver for CNC lathe
	Innovative small and medium-sized enterprises	A dual-station exchange workbench
	Certificate of Work Safety Standardization	A new graphite material processing and cutting center
	Computer Software Copyright Registration Certificate	a large CNC gantry machining center

TESTING

Hard core testing, strength verification

We use high-efficiency, high-precision laser detection and internationally leading three-dimensional measuring instruments and intelligent vision systems. Our CNC machine tools have undergone more than 200 precision tests, and all testing items are meticulous. The positioning accuracy is ±0.002mm, and the repeatability accuracy exceeds the industry standard by 30%. We demonstrate the processing of aviation-grade titanium alloy workpieces on site, showing the ultimate craftsmanship with a surface roughness of Ra0.2μm in real time. Quality inspection at every stage is performed by professionally trained inspectors, ensuring that each machine can fully demonstrate its excellent quality and performance reliability.

Laser inspection


Main shaft core rod detection


Main shaft tension detection


Main shaft thermal elongation detection


Main shaft dynamic balance detection


Circularity inspection


Spindle vibration detection


Three-coordinate measurement

Ultra-high rigidity feed,

simplifying complexities, outstanding performance in small high-precision manufacturing

+ The rolling element in the ball guide slider inside the bed is a steel ball, and the contact surface between the slider and the track is point contact. However, the internal bed of the Titanium Defu machine uses advanced roller guides, with rolling elements being rollers, and the contact surface between the slider and the guide track is line contact. The machine tool has sensitive response, with the aim of having extremely high load capacity and high stiffness.
+ The wire rail machining center has fast movement speed, low rolling resistance, no creeping phenomenon, and convenient lubrication. After long-term use, the loss of precision is small. During processing, the wire rail is in rolling friction or line contact, with a small contact surface and low friction force. It is mainly used in the high-speed machining of molds and is suitable for mechanical processing with small cutting amounts and fast cutting speeds.

24-Blade Arm-Type Tool Magazine 1

+ High-speed and stable ATC system
+ Simple, fast, and can select a tool at any position, saving time during non-cutting PLC control, quickly complete high stability exchange action.
+ Advanced German cam design, even with heavy-duty cutting tools, maintains stability and ensures operational precision.

High rigidity short nose spindle design 2

This design maximizes the transmission efficiency of the spindle motor, greatly improving the cutting rigidity of the spindle and extending its lifespan, ensuring the long-term accuracy and stability of machined parts.

Controller 3

+ The 90-degree rotating operation panel displays both text and images simultaneously, making it simple, clear, and easy to operate
+ Touch display, easy to operate
+ Warning signals are clearly displayed on the screen, making fault removal easy
+ Separated handwheel design, easy to test

Ball screw 4

The extended and widened base design, with precise data calculated by computer, is more stable and solid than similar machines.

Roller guide 5

+ When subjected to high loads, the roller-type linear guideway experiences only minimal deformation, significantly enhancing its rigidity and ensuring high-precision machining.
+ Linear guideway wear is very small, and the service life is very long
+ Suitable for high-speed operation, significantly reducing the driving horsepower required for the machine

Wide and solid base 6

+ Low noise: The design of the reflux unit can absorb the noise generated by the impact of steel balls, significantly reducing the noise level
+ High-speed deceleration; the unique design of the path and strength of the return unit reduces the impact value of the moving steel ball, allowing it to withstand ultra-high DM-N values and instantaneous high and low deceleration operating environments.

Wire rail vertical machining center

Full protective cover, no iron chip escape

TCM/850/855/1160/1370/1580

Three-axis standard roller linear guide: high load capacity, improved vibration resistance for high-torque cutting; Z-axis uses 6 sliders for enhanced rigidity.

The screw rod and guide rail shields are protected by labyrinth seals to protect precision components and ensure the stability and longevity of mechanical accuracy.

X/Y/Z Three-axis stroke	Workbench dimensions	Maximum spindle speed	Number of tool positions
1100×650×600mm	1200×600 mm	10000rpm	24 pcs

Fully enclosed tool magazine (optional)

Ensure the stability of the tool magazine and the cleanliness of the tool handles to provide a good guarantee for stable machining accuracy. An optional variable frequency tool magazine can intelligently adjust the speed of tool changes for light and heavy tools, improving efficiency while ensuring stability.

Machine Tool Battery System Upgrade

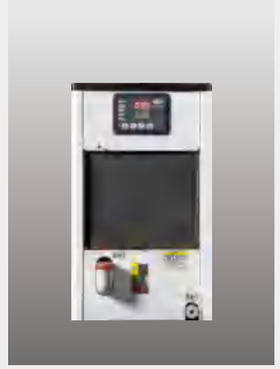
The system battery has been upgraded from a standard battery to a high-capacity one, ensuring a lifespan of up to 5 years. In contrast, standard batteries typically last for just over a year. This upgrade guarantees that the machine tool's zero point position and parameters are preserved.

Constant temperature oil cooler (optional)

The high-speed spindle adopts a high-efficiency constant temperature spindle oil cooler to ensure stable temperature during long-term high-speed operation, maintain the stability of spindle thermal expansion, and ensure the durability of the spindle.

Crawler-type chip conveyor (optional)

The automatic tracked chip conveyor eliminates the labor cost and downtime associated with manual chip removal. The water used to design the chip conveyor does not leak directly onto the water tank, but is filtered precisely before flowing onto the tank, preventing fine chips from leaking into and clogging the tank, which can be difficult to clean.



Y-post shield chip flushing device (optional)

The Y-axis rear shield has been upgraded from a single layer to a double-layer design with a slant, enhancing its rigidity and resistance to deformation. Additionally, the shield now features a chip-flushing function, reducing the buildup of iron chips and minimizing shield malfunctions.

Tool setting gauge (optional)

It is convenient for tool setting, and can detect whether the tool is excessively worn or broken at regular intervals, saving manual inspection time and ensuring normal tool processing and stable part accuracy in the future.

Quenched Hard Rail Bears Ten Thousand Jun

Aerospace - grade hard rail maintains full - stroke precision

+ **The whole machine's advanced assembly process and effective testing methods ensure that the machine tool spindle has minimal vibration during high - speed movement, effectively improving the machining accuracy of the machine tool and the surface quality of the workpiece.**
+ Quenched alloy steel guide rails are adopted, with a hardness of HRC58 - 62. Matched with Turcite - B wear - resistant inserts, the single rail load can reach 3.5 tons.
+ The width of the guide rail is usually 80 - 120mm, which is 40% wider than that of linear rail machines, ensuring cutting vibration resistance. The typical guide rail span is 600 - 800mm, and the size of the linear rail machine is 450 - 600mm.
+ The maximum workpiece size is 2000×1200×800mm, the tool magazine capacity is 24 - 40 tools, the tool change time is 1.8 seconds, and a right - angle milling head can be optionally equipped to achieve five - sided machining.

Heavy Cutting Capacity 1

+ The maximum cutting forces of X/Y/Z axes reach 2800/2500/3000N respectively.
+ The 40 - taper spindle can achieve a metal removal rate of 12mm³/min at 2000rpm
+ Standard 30HP spindle motor, with a torque peak value of 240Nm.

Dynamic Precision Maintenance 2

+ Pre - stretched lead screw is used with double nut preloading, and the reverse clearance is <0.005mm.
+ The full - loop optical ruler has a resolution of 0.001mm, and the positioning accuracy is ±0.008mm/m.
+ The thermal symmetry design makes the 4 - hour thermal error <0.015mm.

Pre - stretched Anti - deformation Lead Screw 3

The three - axis lead screws are treated with pre - stretching to prevent thermal deformation and provide excellent machine tool positioning accuracy and rigidity.

Box - type Column Structure 4

The weight proportion of the integral casting accounts for more than 65%, and the material is HT300 cast iron. The honeycomb - shaped stiffener design makes the static stiffness reach 180N/μm. It is equipped with a two - way hydraulic balance system to offset the influence of the spindle gravity.

Stable Foundation and Anti - Overturning Column 5

The column and the base are combined with a large - span design, which has high rigidity and can effectively resist the overturning moment during rapid movement, increasing the stability of the machine tool.

Intelligent Compensation System 6

+ Equipped with an automatic detection module for guide rail thermal loss, and performs error modeling every 8 hours.
+ Cutting force adaptive control system, adjusting the feed rate in real time.
+ Spindle thermal elongation compensation accuracy is +1μm.

Hand - Scraping Process 7

In order to ensure the precision of each machine tool, we pay attention to every detail and every step. All precision reference surfaces are scraped and matched by hand, and the scraping rate is maximized to obtain a reliable precision reference, ensuring the excellent quality of the machine tool.

Hard Rail Vertical Machining Center

Precision Vertical Milling, Intelligent Manufacturing for Future Cores

TCM-850/1100/1300/1600

Three axes are equipped with roller linear guides as standard: high load - bearing capacity, strong vibration resistance for high - torque cutting; the Z - axis adopts 6 sliders, with enhanced rigidity.

Ball screws and guide rail shields are protected by labyrinth seals to protect precision components and ensure the stability of mechanical accuracy and service life.

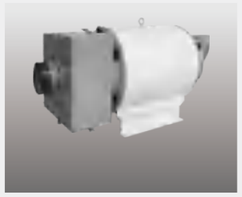
X/Y/Z three - axis travel	Worktable size	Maximum spindle speed	Number of tool positions
1300×700×70 mm	1400×70 mm	10000rpm	24 pcs

Spindle Center Through - Spindle Coolant Function (Optional)

Coolant or cutting fluid is sprayed through the central hole of the machine tool spindle to cool, lubricate and clean the machining area, so as to reduce cutting temperature, reduce tool wear and maintain machining accuracy.

Oil Mist Collector (Optional)

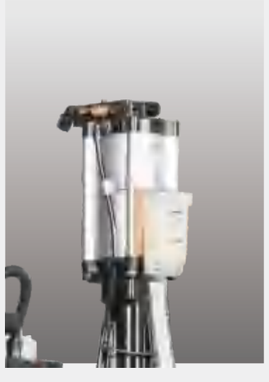
Energy - saving and environmental protection equipment. It protects the machine tool and keeps the air in the workshop clean. We also advocate the use of low - pollution clean oil products and reduce oil pollution emissions; We are committed to promoting the design concept of energy conservation and low pollution, which is conducive to resource conservation and environmental cleanliness.



Linear Encoder (Optional)

Equipped with imported high - precision linear encoder system, it constructs a full - closed - loop control through real - time position feedback, eliminates mechanical transmission errors, and the positioning accuracy can reach ±1μm, fully meeting the detection standard requirements of CMM (Coordinate Measuring Machine).

Select P-grade precision guide rail



Air Tank (Optional)

Adding an air tank to the machine tool plays a role in stabilizing the air source of the machine tool, effectively preventing the situation of insufficient air pressure in an instant, ensuring the stable performance of pneumatic components for gas use, and ensuring the smooth and stable tool change.

Spindle Tool Striking Cylinder Upgrade

A large - sized air - to - hydraulic booster tool striking cylinder with 4.5T is adopted, and the stable pressure ensures stable tool releasing and avoids tool jamming. The oil level detection of the tool striking cylinder is added, and the tool clamping and releasing signals are upgraded to photoelectric induction switches to ensure signal stability.

MAIN TECHNICAL PARAMETERS TABLE

Project/Model	单位	TCM-850	TCM-855	TCM-1160	TCM-1370		TCM-1380	TCM-1580	TCM-850	TCM-1100	TCM-1300	TCM-1600
Schedule				Precision Rail Series				Precision Rail Series			Hard Rail Series	
X-axis travel	mm	800	820	1100	1300		1300	1500	850	1100	1300	1600
Y-axis travel	mm	500	550	600	700		800	800	560	650	700	900
Z-axis travel	mm	500	550	600	700		700	700	560	650	650	800
Distance from the spindle nose to the workbench	mm	120-620	130-680	130-730	140-840		140-840	135-835	150-710	150-800	150-800	210-1010
Distance from the spindle center to the column surface	mm	550	640	710	770		870	870	620	700	760	970
workbench												
Workbench dimensions	mm	1000×500	1000×550	1200×600	1400×700		1500×800	1700×800	1000×560	1300×650	1400×700	1860×1000
Maximum load capacity of the workbench	kg	450	600	800	1000		1000	1200	600	1000	1200	2000
T-slot size	mm	18-5×80	5-18×100	5-18×100	5-18×125		5-18×150	5-18×140	5-18×100	5-18×120	5-18×120	7-18×120
Spindle												
spindle taper hole	-	BT-40	BT-40	BT-40	BT-40/50		BT-40/50	BT-50	BT-40	BT-40/BT-50(optional)	BT-50	BT-50
spindle speed	rpm	12000	10000	10000	10000/6000(optional)		10000/6000(optional)	6000/8000(optional)	8000	8000	6000	6000
Spindle Motor	kW	7.5/11	7.5/11	11/15	11/15 15/18.5		11/15 15/18.5	15/18.5	11/15	11/15 15/18.5	15/18.5	18.5/22
Feed rate												
Rapid feed along the x-axis	m/min	48	36	36	36		24	24	18	18	18	18
x-axis cutting speed	mm/min	1-10000	1-10000	1-10000	1-10000		1-10000	1-10000	1-10000	1-10000	1-10000	1-10000
Rapid feed along the Y-axis	m/min	48	36	36	36		24	24	18	18	18	18
Y-axis cutting speed	mm/min	1-10000	1-10000	1-10000	1-10000		1-10000	1-10000	1-10000	1-10000	1-10000	1-10000
Rapid feed along the z-axis	m/min	48	36	36	36		24	30	18	18	18	18
z-axis cutting speed	mm/min	1-10000	1-10000	1-10000	1-10000		1-10000	1-10000	1-10000	1-10000	1-10000	1-10000
other												
Track form	-	Linear guide	Linear guide	Linear guide	Linear guide		Linear guide	Linear guide	Hard rail	Hard rail	Hard rail	Hard rail
Handle form	-	BT-40	BT-40	BT-40	BT-40/50		BT-40/50	BT-50	BT-40	BT-40/BT-50	BT-50	BT-50
Tool capacity	pcs	24	24	24	24		24	24	24	24	24	24
Mechanical dimensions (length, width, height)	mm	2550×2300×2500	2550×2399×2550	3100×2690×2600	3500×2900×2950		3544×2933×3115	3900×3133×3415	2600×2350×2500	3200×2690×2600	3550×2900×2950	3700×2950×2750
Mechanical weight	T	5.5T	6.0T	7.0T	9.5T		11.5T	12.5T	6.3T	7.5T	10.5T	16T

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Standard Configuration

- ☐ Spindle oil temperature cooling
- ☐ Automatic lubrication system
- ☐ Blowing air on the workpiece
- ☐ Three-axis telescopic shield
- ☐ Main shaft air curtain device
- ☐ Water tank and cutting fluid motor
- ☐ Rear flush motor
- ☐ Full-cover sheet metal
- ☐ A complete set of operation and maintenance instructions
- ☐ water gun / air gun
- ☐ work light
- ☐ Three-color warning light

Standard Configuration

- ☐ Heat exchanger
- ☐ Three-axis ball linear guide
- ☐ Electrical box air conditioner
- ☐ Crawler-type chip removal machine
- ☐ Fourth axis preparation
- ☐ The entire set of the fourth-axis rotary table
- ☐ Automatic tool measurement
- ☐ Optical ruler
- ☐ ZF gearbox

PRECISION

Vertical 5-axis Machining Center

A powerful tool for mass production of polyhedral parts, with a spindle speed of 15000/18000rpm

Widely used in the manufacturing of new energy vehicle motors, gearboxes, engines, molds, robots, medical devices and other products.

Adopting a stable C-type structure, it can be equipped with a high-speed electric spindle, a direct-drive CNC rotary table and a servo tool magazine, enabling high-speed and high-precision machining of complex parts.

Large-diameter C3-grade screw rod with pre-tension structure to eliminate partial thermal elongation. The screw rod bearings are lubricated with oil to extend the bearing life.

Overhead Crane 5-axis Machining Center

U-shaped 5-axis Machining Center

Main Technical Parameters Table

Project/Model	Unit	UT-380	UT-430	UT-600	UT-50Overhead crane five-axis
X-axis travel	mm	550	750	800	550
Y-axis travel	mm	450	550	650	780
Z-axis travel	mm	500	550	600	500
A-axis travel rotation angle	Degree	125° ~ -125°	125° ~ -125°	125° ~ -125°	125° ~ -125°
c-axis travel rotation angle	Degree	360°	360°	360°	360°
Spindle Nose to Turntable Surface (A-Axis at 0°)	mm	500	600	625	69-659
Distance from Spindle Nose to A-Axis Rotation Center (A-Axis at 90°)	mm	270	350	400	450
Distance from Spindle Center to A-Axis End Face (A-Axis at 90°)	mm	190	200	300	280
Maximum Load Capacity of Rotary Table	kg	60	100	150	300
Spindle Speed	rpm	15000	15000	15000	18000
Tool Holder Type	-	BT40	BT40	BT40	BT40
Rapid Traverse (X, Y, Z Axes)	m/min	36	36	36	36
A-Axis Rotation Speed	rpm	120	130	130	132
C-Axis Rotation Speed	rpm	224	200	200	141
Overall Dimensions	mm	2300 × 2900 × 2900	2400 × 2900 × 2900	2600 × 2900 × 2900	2600 × 3100 × 2900
Machine Weight	kg	4200	5800	6900	9000

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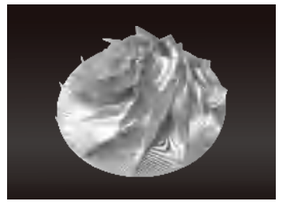
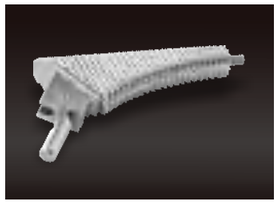
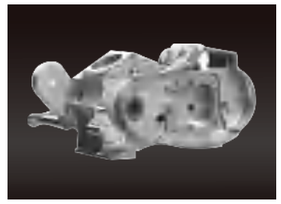




PRECISION

High Precision Drilling and Tapping Machining Center

The spindle is directly connected for silent and high-speed operation, reducing inertia and vibration.

Intelligent temperature control: The spindle and screw are equipped with a cooling system to reduce the impact of thermal deformation on machining accuracy.

Automation compatibility: It supports the linkage of the tool magazine and the manipulator to realize unmanned continuous production, and is suitable for large - batch precision machining fields such as 3C and auto parts.

High-Speed Dynamic Performance

Driven by linear motors with high-response servo drives, the rapid traverse speed can reach over 60m/min, greatly reducing non-cutting time.

Rigid Structure

The column and base adopt a large-span integrated design, combined with pre-tensioned ball screws, effectively suppressing cutting vibration and ensuring repeated positioning accuracy within 0.05mm.

Unique Spindle Head Design

The unique spindle head design has more prominent advantages for tapping small holes; it can achieve high-speed and high-precision tapping, drilling, and milling; with a compact design of advanced technology.

主要技术参数表

Project/Model	Unit	TC-500	TC-600	TC-700	TC-800	TC-1000	TC-1300
Schedule							
X-axis travel	mm	500	600	700	800	1000	1300
Y-axis travel	mm	400	400	450	500	500	650
Z-axis travel	mm	330	330	330	330	330	450
Distance from the spindle center to the column guide rail surface	mm	464	464	464	546	546	705
Distance from the spindle end face to the table surface	mm	150-480	150-480	150-480	160-490	150-480	150-600
workbench							
Workbench dimensions	mm	650×400	700×420	800×420	1000×500	1100×500	1400×600
Maximum load capacity of the workbench	kg	250	250	250	350	350	500
T-slot size	mm	3×14×125	3×14×125	3×14×125	18×5×100	18×5×100	18×5×100
Spindle							
spindle taper hole	mm	BT30	BT30	BT30	BT30	BT30	BT30
spindle speed	mm	20000	20000	20000	20000	20000	12000
Feed rate							
Rapid feed along the x-axis	m/min	36	36	48	48	48	36
Rapid feed along the Y-axis	m/min	36	36	48	48	48	36
Rapid feed along the z-axis	m/min	36	36	48	48	48	36
other							
Track form	-	Linear guide	Linear guide	Linear guide	Linear guide	Linear guide	Linear guide
Handle form	-	BT-30	BT-30	BT-30	BT-30	BT-30	BT-30
Tool capacity	pcs	21	21	21	21	21	21
Overall dimensions	mm	1750×2288×2200	1750×2288×2200	1880×2351×2200	2480×2290×2295	2680×2290×2295	3260×2630×2850
Mechanical weight	kg	2500	2600	2900	3400	3900	5200

PRECISION

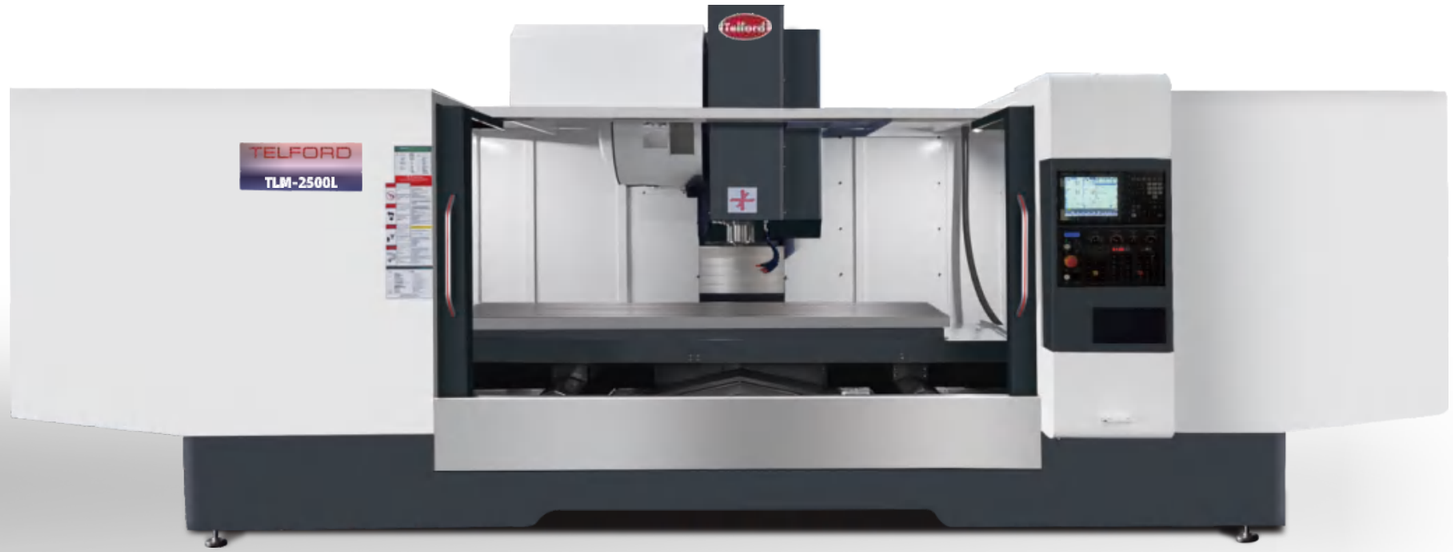
High-performance Profile Machining Center

CNC composite machining center integrating drilling, tapping, and milling

Larger-sized components are adopted, which can meet the needs of heavy-duty machining and are suitable for the processing of various metals such as steel, aluminum, copper, and non-metals.

It adopts a fully protected sheet metal design, featuring high processing efficiency, high precision, and high strength. It is equipped with an automatic chip conveyor for easy cleaning.

- **Japan-Imported System Configuration**
  Genuine imported Mitsubishi, Fanuc, and Syntec from Japan
- **High machining efficiency with multi-threading**
  It is highly efficient for aluminum profiles with lengths ranging from 1500mm to over 10000mm, and can process multiple pieces in multiple rows simultaneously.
- **Multi-sided machining with high product efficiency.**
  It is highly efficient for aluminum profiles with lengths ranging from 1500mm to over 10000mm, and can process multiple pieces in multiple rows simultaneously.
- **Bt40 spindle for heavy-duty cutting.**
  Bt40 spindle unit capable of heavy-duty cutting.
- **Convenient clamping with pneumatic or hydraulic automatic mode.**
  For convenient clamping: Operators only need to complete the product loading process in advance outside the machine. All fixtures can be designed with pneumatic or hydraulic automatic mode, enabling workpiece loading and unloading within one minute.



Wide range of application fields

1、Automobile parts: aluminum bodies of new energy vehicles, battery packs, automobile pedals, bumpers, sunroof guide rails, luggage racks;
2、Medical equipment: suspension stretchers, conveyor racks, advanced medical beds;
3、Aluminum frames of TV sets;
4、Aluminum parts of textile machinery;
5、Aluminum parts for aerospace;
6、Aluminum parts of ships and yachts, etc.

Wide range of application fields

Project/Model	Unit	TML-2500L	TML-3500L	TML-4500L	TML-6500L
Schedule					
X-axis travel	mm	2500	3500	4500	6500
Y-axis travel	mm	500/600/700			
Z-axis travel	mm	500/600/700			
Distance from Spindle Nose to Table Surface	mm	150-850			
Worktable					
Worktable Size	mm	2500×500/600/700	3500×500/600/700	4500×500/600/700	6500×500/600/700
Maximum Load Capacity of Worktable	kg/m²	2000	2000	2000	2000
T-slot size	mm	18	18	18	18
Spindle					
Spindle Taper Hole	-	Direct Connection / Direct Drive	Direct Connection / Direct Drive	Direct Connection / Direct Drive	Direct Connection / Direct Drive
Spindle Speed	rpm	12000/20000	12000/20000	12000/20000	12000/20000
Other					
Tool Holder Specification	-	BT40/HSK-A63	BT40/HSK-A63	BT40/HSK-A63	BT40/HSK-A63
Rapid Traverse (X/Y/Z Axis)	m/min	Lead Screw30/30/30 Rack60/60/60	Rack60/30/30	Rack60/30/30	Rack60/30/30
Cutting Feed	m/min	1 ~ 15	1 ~ 15	1 ~ 15	1 ~ 15
Mechanical Dimensions	mm	4450×2000×2300	5450×2000×2300	6450×2000×2300	8450×2000×2300
Weight	kg	6500	7300	8300	10000

PRECISION

Technology empowers, and examples are presented.

Larger-sized components are adopted, which can meet the needs of heavy-duty machining and are suitable for the processing of various metals such as steel, aluminum, copper, and non-metals.

Precision machined workpiece

Material	A6061
Cutting Tool	End MillΦ16mm
Spindle Speed	6000 RPM
Feed Rate	600 mm/min
Cutting Width	0.1 mm

Rapid machining

Material	S45C
Cutting Tool	Face millΦ25mm
Spindle Speed	2800 RPM
Feed Rate	4200mm/min
Cutting Width	0.5 mm

Shape Machining

Material	A7075
Cutting Tool	End MillR3mm
Spindle Speed	1200 RPM
Feed Rate	2400mm/min
Cutting Width	0.1 mm
Total Machining Time	1 hour 16 minutes and 8 seconds (approximately)

Heavy Cutting

Material	S45C
Cutting Tool	Face millΦ80mm
Spindle Speed	1500 RPM
Feed Rate	1350mm/min
Cutting Width	4 mm
Total Machining Time	324cc/min

PARTNERS

Case Studies of Machine Delivery

Every handshake represents mutual recognition of each other's values; every collaboration pushes the boundaries of what's possible in the industry.
We look forward to working with you to:

Build a long-term alliance based on trust Forge differentiated competitiveness through technology Co-create new growth curves with the market as our canvas

Because what is more precious than success is our like-minded partners, who serve as lighthouses for each other in the voyage full of uncertainties.

Telford CNC treasures every cooperation with you!

Machine delivery and commissioning case

PARTNERS

Cooperative Customers

Domestic Trade Cooperative Customers

Foreign Business Cooperation Inspection and Talks

CRAFTSMANSHIP SERVICE

Craftsmanship Service: Helping Enterprises Soar

With "Customer Worry-Free" as the core, we have built a full-life-cycle service system covering pre-sales consultation, in-sales support, and after-sales guarantee. The professional team provides 24-hour rapid response and escorts you with over 20 years of industry experience. Choosing us is not only choosing products, but also choosing a commitment of lifelong companionship!

We adhere to the service principle of "Making Customers Worry-Free" to enable customers to enjoy professional and high-quality services at all times.

24H Timely Response

30MIN Provide Solutions Within

24H On-site Service

INTEGRITY

QUALITY· SERVICE · CREATION

Efficient · High-Quality · Service · Dedicated

Business Team

Technical Team

Foreign Trade Operation Area

Foreign Trade Operation Area