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T-Series

T52CX

5-Axis cnc dental milling machine



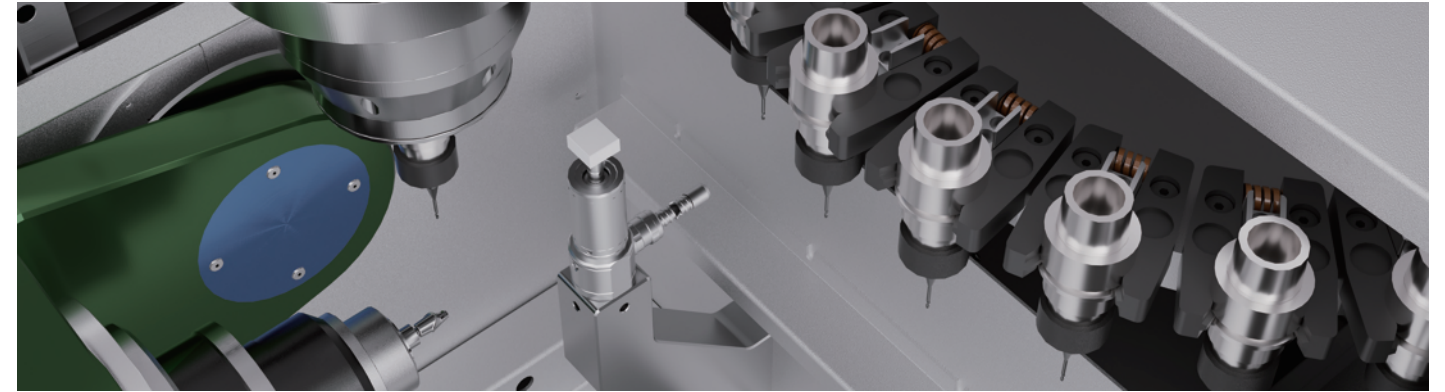
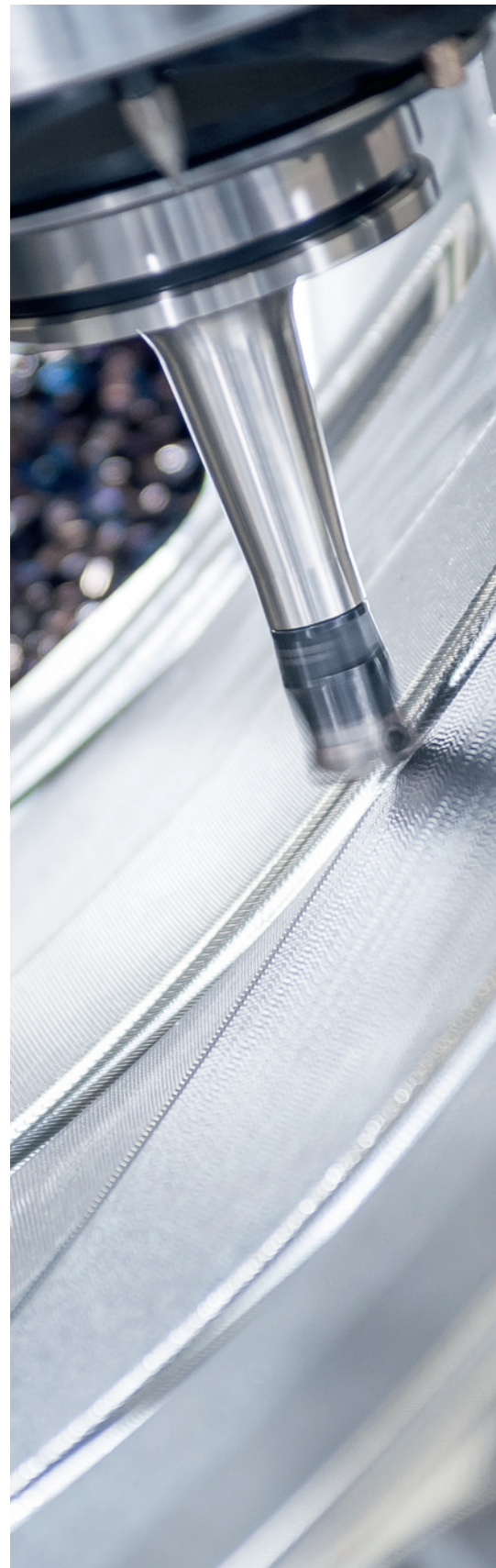
Powered By **JINY Dental**

Summary

5 Axis CNC Machining is an incredibly versatile machining process that implements subtractive machining technology. Through this process, a workpiece is cut into shape using cutting tools working on five axes to deliver a final part. CNC machining is incredibly popular due to its high accuracy, efficiency and repeatability. The process starts by utilising the original Computer-Aided Design (CAD) file to help program cutting tool paths, all managed via Computer Numerical Control (CNC). Once these tool parts have been programmed into a language that CNC machines understand, the process can be entirely automated, meaning there are minimal manual processes.



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Why invest more in a 5-axis machine?

A higher-end 5-axis CNC machine will cost you more initially, but if you're capable of using the machine to its full potential, the investment will pay itself back.

Greater speed, reliability, and component quality will help drive profits in the future.



Improved accuracy and precision

High-end 5-axis CNC machines are capable of producing higher quality componentry. These machines are more rigid and demand a higher price, but the result is better quality parts, less scrap and even increased productivity.



Faster machining

Spindle speed and feed rates can increase as you spend more, speeding up production and reducing cost-per-part.



Longer lifespans and improved value

As with many other products on the market, increased costs can mean higher build qualities, resulting in less maintenance and a better price when you come to sell.



Better surface finishes

The appearance, qualities and surface finish of parts produced on the best machines are generally better than those produced on more budget-friendly machining centres.

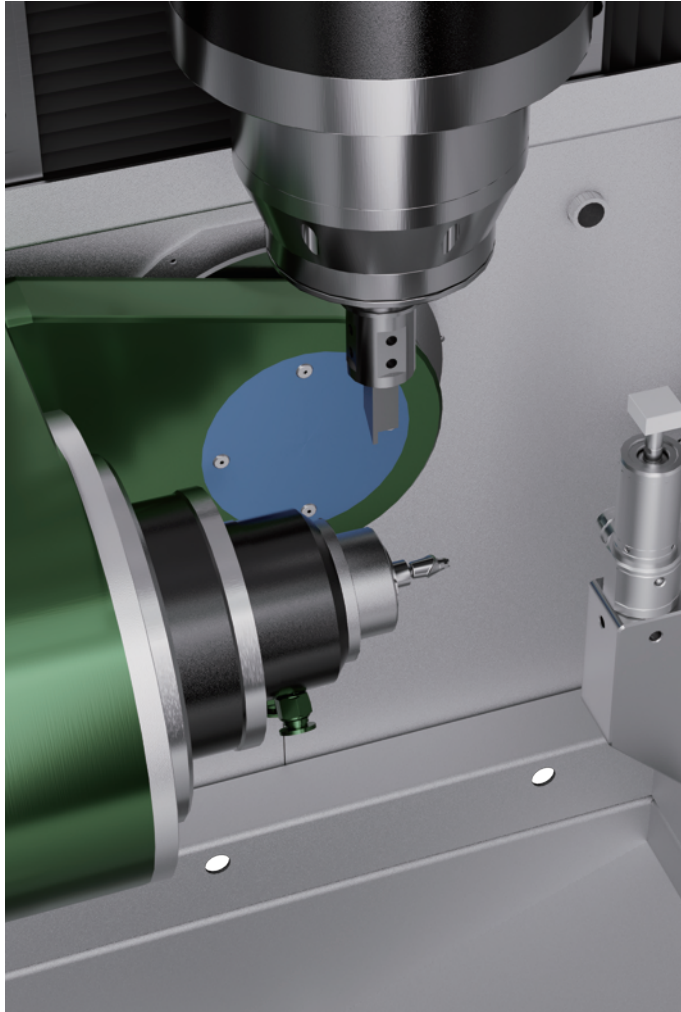


Greater flexibility

A good 5-axis machine might cost more upfront, but it will be able to work with a greater range of materials and produce a wide variety of component types.

Top-Features

ALL ADVANTAGES AT A GLANCE



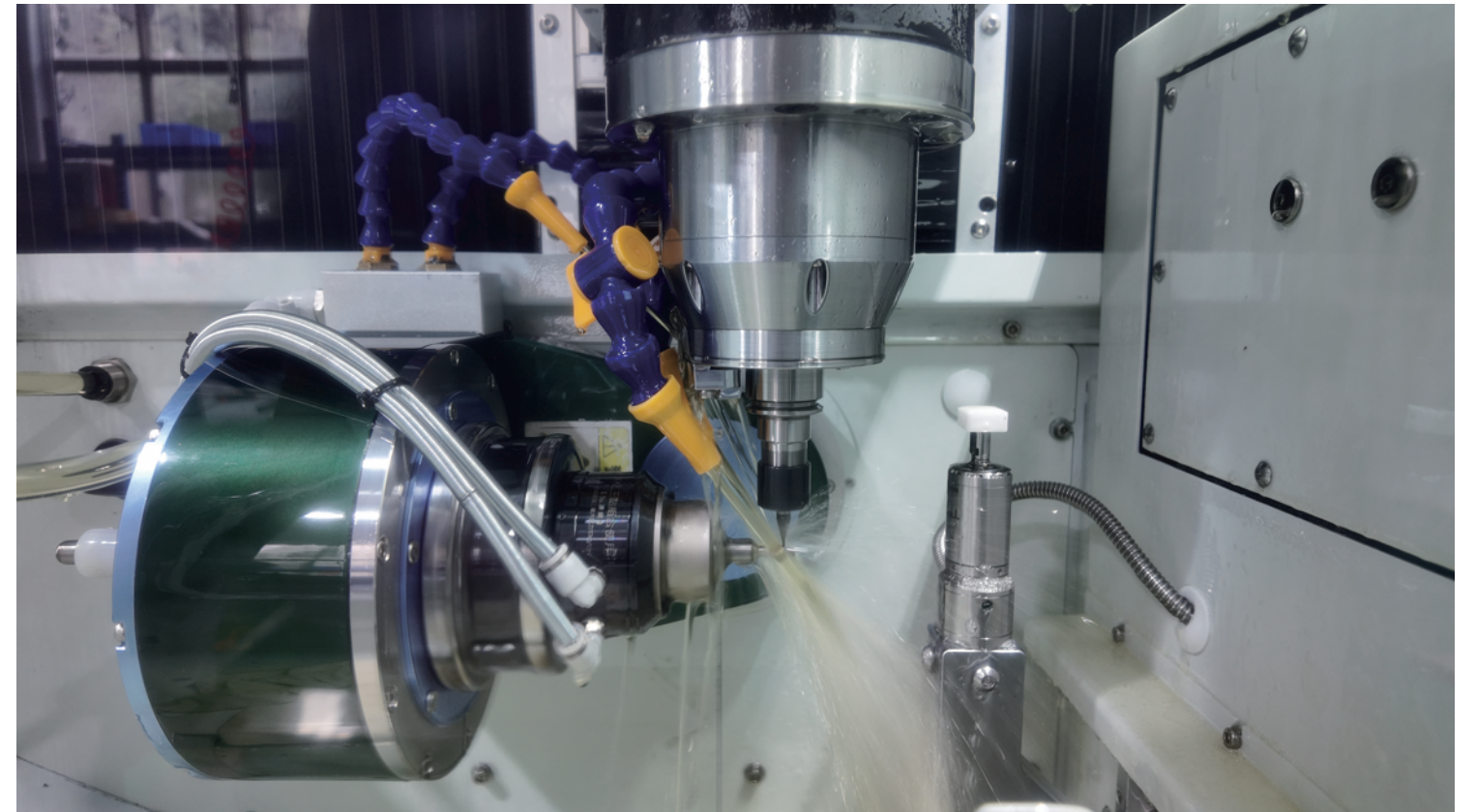
Titanium Machining

We have extensive experience and expertise in machining titanium. We understand the unique demands and challenges that come with working with this material and are fully equipped to handle them effectively. Whether you need precise, high-quality parts or complex components, we have the skills and capabilities to deliver outstanding results.



Save Materials for Perfect Performance

We can machine titanium rods up to 35mm, and we also offer customized machining for larger sizes. The rods can be reused multiple times to save more material. It's an essential piece of equipment for your machining workshop.



Smart Milling, Ultra-Precision Sensor

T52CX is equipped with an ultra-precision sensor to ensure error-free milling. Each sensor works organically to control the smart milling performance of T52CX. We offer the ultimate solution for controlling quality, cost, and reliability when it comes to large, complex parts. By using advanced equipment and techniques, we are able to produce highly accurate and precise parts with minimal waste and maximum efficiency.



Through precise milling with CAD/CAM technology, the custom abutments ensure a perfect fit with the implants, enabling smooth and stable implantation.

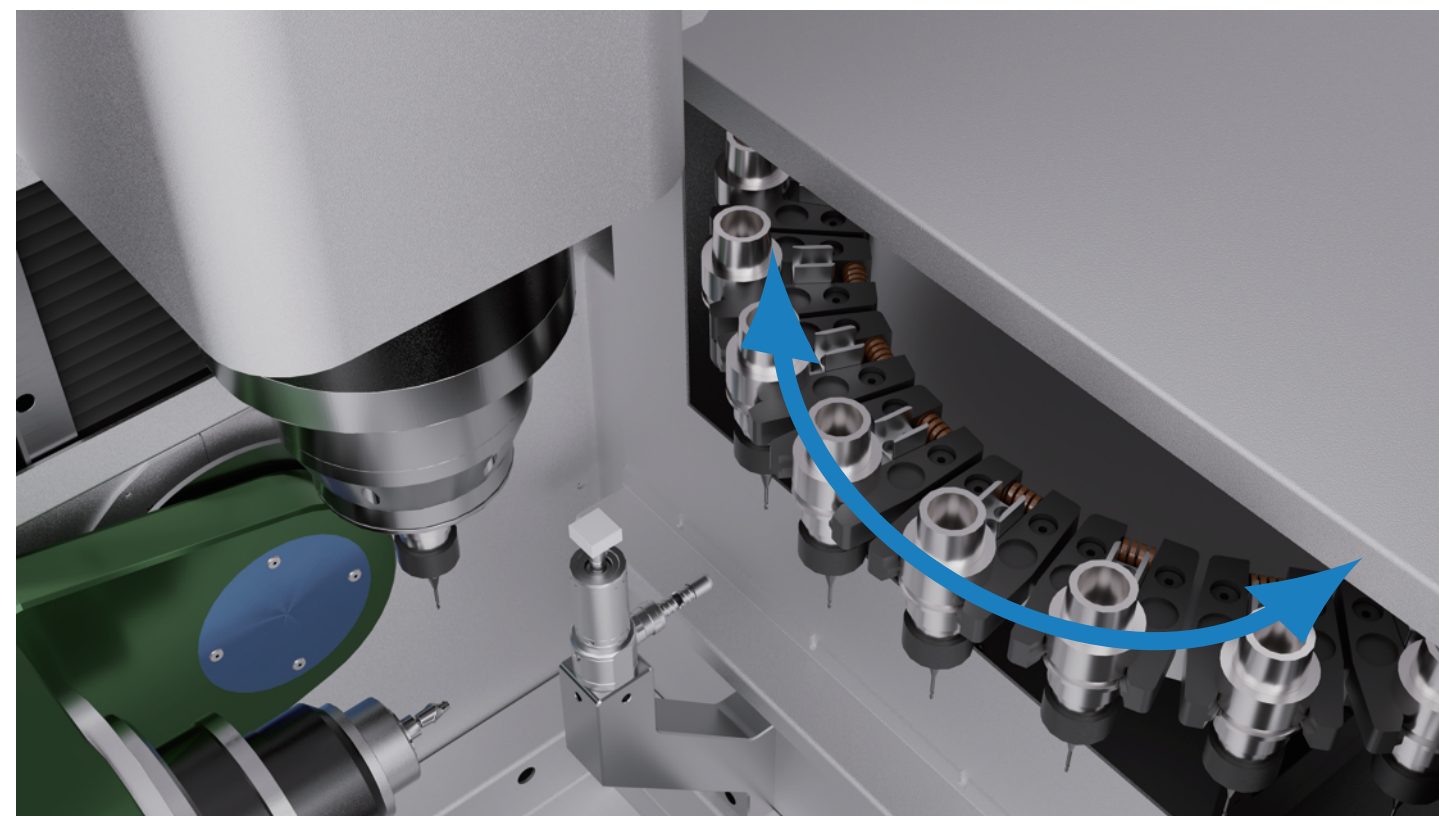
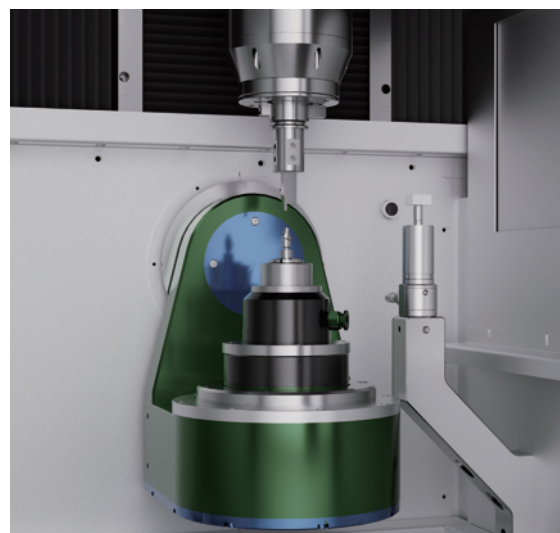


Strong spindle, Machine Parts Faster

The vector-controlled 16kW synchronous high-frequency spindle with a speed of 30,000rpm and provides a high machining volume over time. It gives you top results with continuous titanium rods milling.

Vertical Milling

Our company is equipped with advanced CAD CAM software and provides vertical milling services using this software. This enables us to produce high-precision parts and handle a variety of complex projects.



16 auto tools changer

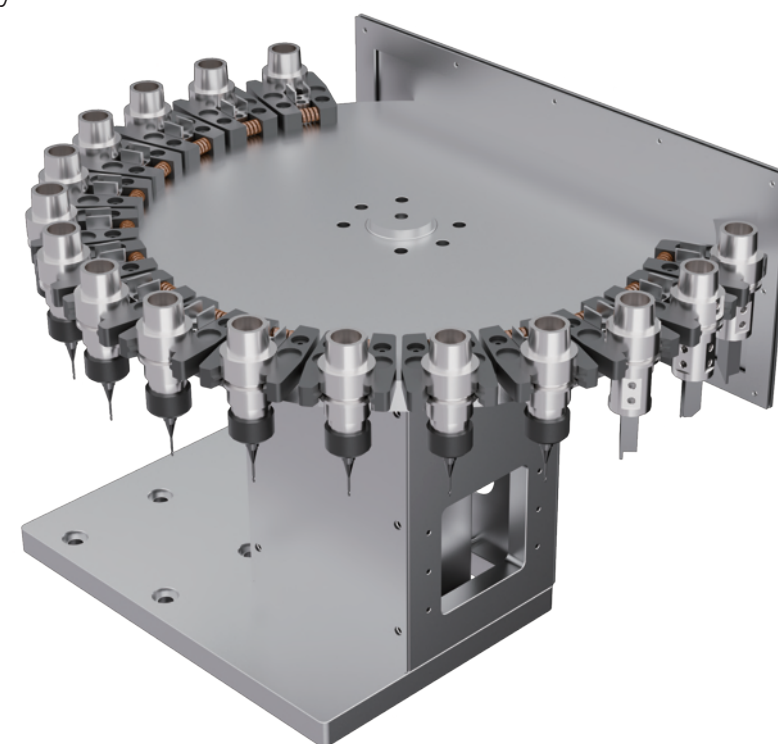
Equipped with 16 tools for precision cutting, the CNC machine achieves high efficiency and accuracy by completing multiple operations in one setup, minimizing tool change errors, and ensuring consistent dimensional and surface quality.



Equipped with professional oil cooler

An oil chiller in a CNC machine stabilizes the temperature of lubricating or hydraulic oil to prevent thermal deformation, ensure machining accuracy, and extend equipment lifespan.

- ✓ Stabilize temperature
- ✓ Ensure precision
- ✓ Extend lifespan



JINY Dental

Small footprint. Large work area. Huge return on investment!



Advantages of Precision Ball Screws

Precision ball screws provide extremely accurate linear motion due to minimal friction and backlash. This enables CNC machines to achieve high repeatability and precise cutting or machining of complex parts.

Enhanced User Experience and Visibility

An ultra-large HD touch screen provides a clear, detailed display of machining data, tool paths, and 3D models. The wide viewing area allows operators to monitor multiple parameters at once, improving operational awareness and reducing errors.

Precise angle adjustment

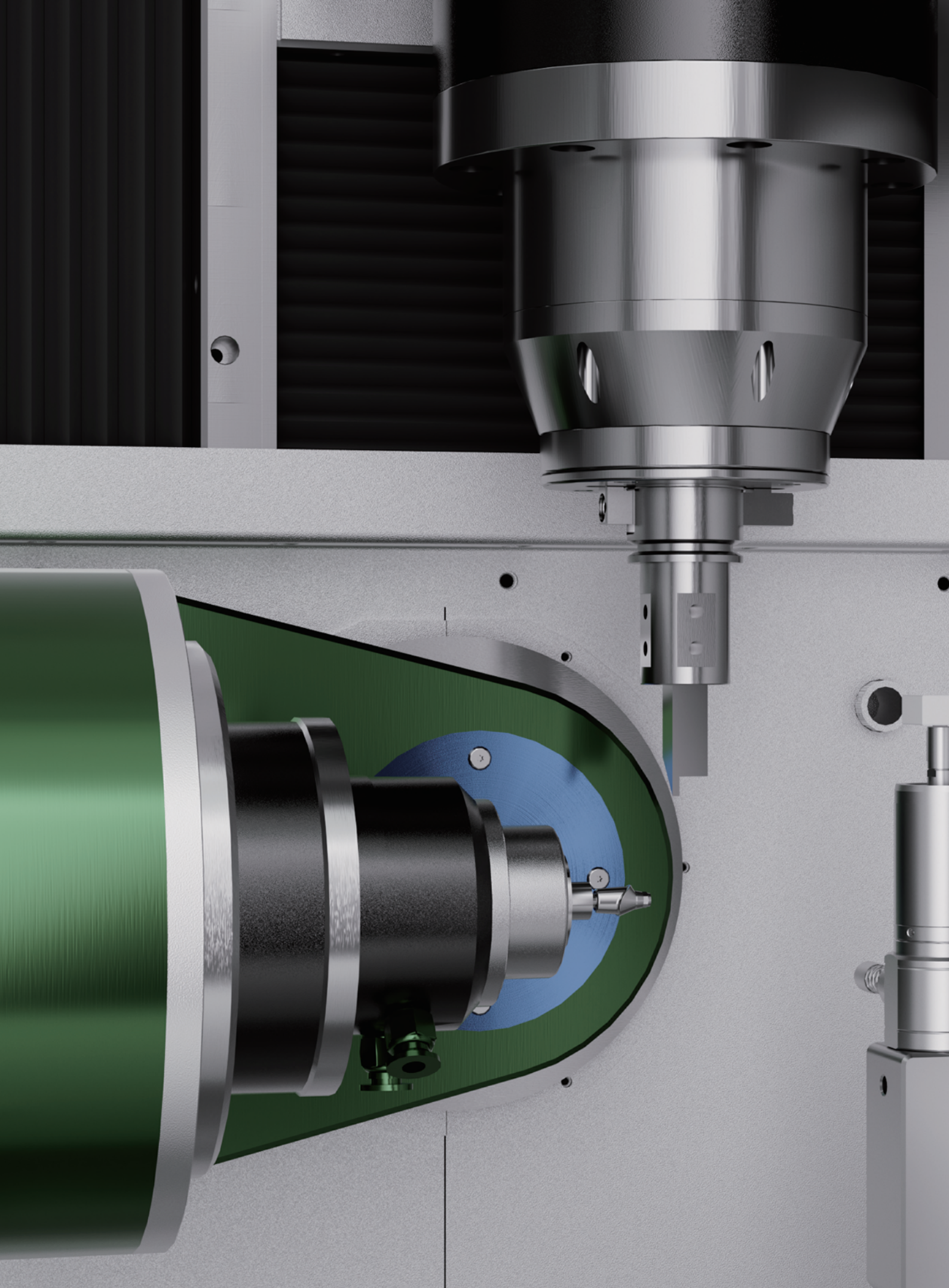
Manual adjustment as an aid helps you better control the angle of the milling machine.

Milling finished product storage area

After the material cutting is completed, it will be automatically stored for easy retrieval.

Large storage space for accessories

Oil mist machine or other accessories can be placed inside to maximize space utilization.

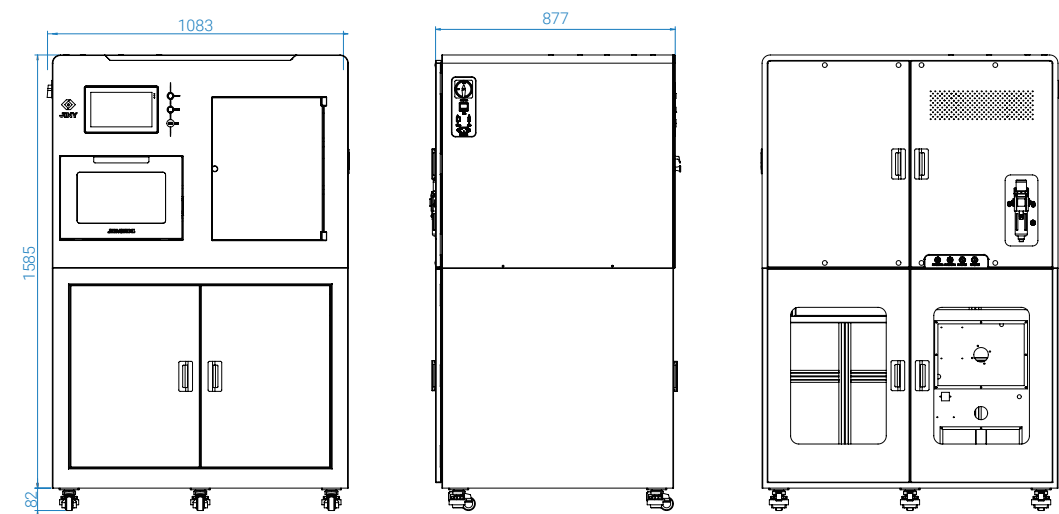


Technical Parameters

Model	T52CX-5 aixs cnc dental milling machine
Machine size	1100*1570*1760mm (Without foot cup/without feeder) 2000*1570*1760mm (Without foot cup/without feeder)
Weight	1500kg
Tool magazine	16
Input voltage	380V
Spindle power	6kw
Machine power	16kw
A/B axis milling angle	B-axis ±90° C-axis 360°
Milling mode	Oil milling
MAX.Spindle speed/rpm	30000
Processing stroke range	XYZ:345*190*206
Spindle cooling method	Oil cooling
Millable material	Titanium Rods
Average milling time	Titanium Rods about 15-20 min

Perfect Dimensions

WELL THOUGHT-OUT, IDEALIZED
CONSTRUCTION FOR MAXIMUM STABILITY



Unit:mm