

JDM5T-Pro

Five-Axis Metal Denture

Milling Machine



Five-Axis Metal Denture Milling Machine

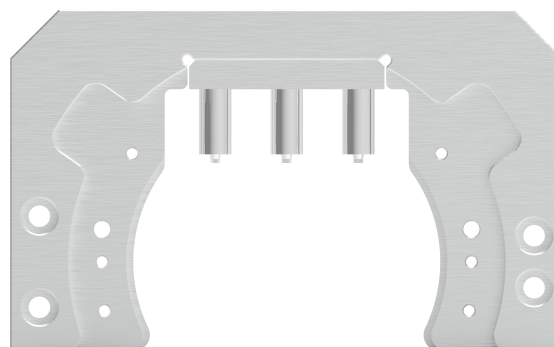
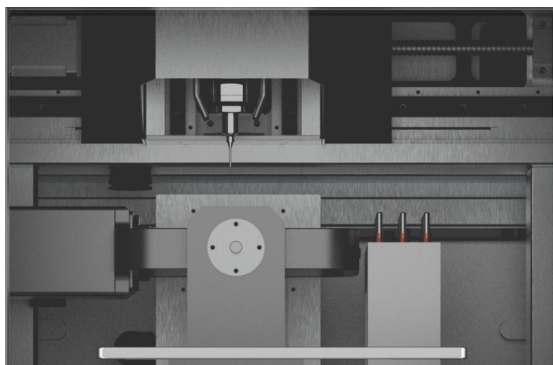
The JDM5T-PRO Five-Axis Metal Denture Milling Machine is a CNC system-controlled, five-axis synchronized denture milling apparatus capable of performing milling and drilling operations on materials such as titanium rods, titanium discs, and glass ceramics.

This machine tool is user-friendly and features fully enclosed protection. It is capable of processing materials such as temporary teeth, PMMA, PEEK, wax, glass ceramics, and soft metals (e.g., aluminum), and can mill bridges, inlays, onlays, temporary restorations, titanium posts, titanium crowns, wax patterns, and more. It provides optimal solutions for various dental restorations and dental materials.

Equipped with a professional denture CNC system, it supports five-axis synchronization, allowing for the display and modification of coordinate parameters and programmed parameters. It enables direct clamping for automatic processing, offering an absolute advantage in cost-effectiveness.



Details of the effect



JDM5T-Pro characteristic

superior cutting performance

Equipped with a high-performance spindle, the JDM5T-Pro achieves exceptional cutting precision, making it exceptionally capable of handling high-hardness, high-precision materials such as zirconia. With a minimum tool diameter of 0.3mm, it enables ultra-fine machining, ensuring precise control over tool paths. This results in zirconia products with extremely tight dimensional tolerances, significantly enhancing product consistency and yield rates.



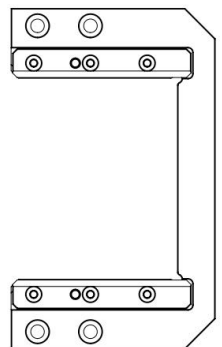
28-tool capacity

The machine tool is designed with a 28-tool magazine, where burs are stored separately to avoid frequent tool changes when cutting different materials. Additionally, it is equipped with a high-precision tool measurement device, which effectively prevents errors caused by tool changes, thereby minimizing potential losses for customers.



quick-change fixtures

The fixture is designed with a detachable structure, allowing other workpiece trays to be securely mounted on the square tray fixture. Once the machine is calibrated, it ensures long-term accuracy of the reference points, optimizing production efficiency and meeting a variety of restoration needs.



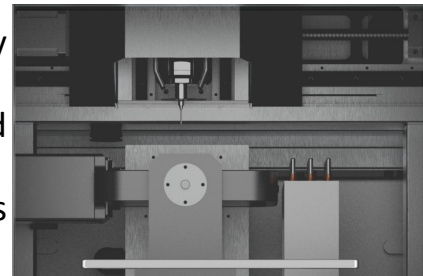
Intelligent remote control capabilities

By utilizing "Sunflower" remote control software, the machine enables advanced remote operation and intelligent monitoring features, such as smart milling alerts and tool life monitoring. This system effectively supervises production status and significantly enhances production efficiency.



stable automatic calibration

The machine incorporates one-touch intelligent calibration, which simplifies operations and automatically optimizes accuracy, ensuring the machine's precision and stability. This feature reduces milling errors, saves materials, and improves overall efficiency, delivering high precision and stability.





machine parameters

Dimensions		726*911*1700mm
Weight		700kg
Tool Magazine		28
Processing Travel Range		XYZ:290*190*120
Input Voltage		220v
Spindle Power		2.5kw
Spindle Speed		60000rpm
Spindle Cooling Method		Water Cooling
Chiller		0.5kw
Total Machine Power		5.0kw
Cutting Method		Oil cut (optional water cut)
work materia		Implant Bar Bridge Framework、Custom Locator、Custom Abutment、 Glass Ceramic、 HPP、 Resin、 Wax Disc、 Titanium and Other Metals or Non-Metals
Maximum Angle	A-axis	360°
	B-axis	+ 26° - 30°
Average Processing Time	Metal Crown	15-22min
	Abutment	7-20min
	Ceramic	10-20min
	Bar Attachment	2-4hour

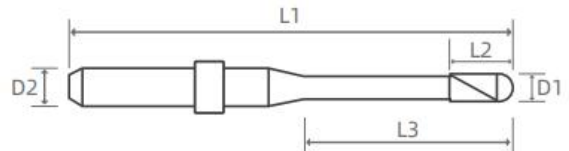
	Bridge Framework	3-5hour
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Repair type / material

	 disk	 Titanium column	 Glass ceramic (water cut)	 Merlanka (optional)
 Veneer/Full Crown	✓	✓	✓	
 Three-unit Bridge	✓	✓	✓	
 Inlay/Onlay	✓	✓	✓	
 Veneer	✓	✓	✓	
 Screw-retained	✓			
 Custom Abutment	✓			✓
 Pinnacle Bar	✓			
 Partial Denture	✓			
 Superstructure on	✓			
 Complete Denture	✓			

 Edentulous Complete	✓			
 Occlusal Splint	✓			

Fit the burs



Tool Number	bur types	specifications	D1 (mm)	D2 (mm)	L3 (mm)	L1 (mm)
T1	Bridge frame bur	Ball End Mill	3.0	∅ 6	16	50
T2	Bridge frame bur	Ball End Mill	2.0	∅ 6	12	50
T3	Bridge frame bur	Ball End Mill	1.0	∅ 6	8	50
T4	Bridge frame bur	Drill Bit	2.2	∅ 6	20	50
T5	Bridge frame bur	Drill Bit	1.5	∅ 6	15	50
T6	Bridge frame bur	Flat End Mill	2.0	∅ 6	10	50
T7	Bridge frame bur	Ball End Mill	1.5	∅ 6	12	50
T8	Bridge frame bur	Bull Nose End Mill	2.0 R0.2	∅ 6	12	50
T9	Bridge frame bur	Bull Nose End Mill	1.5 R0.1	∅ 6	16	50
T10	Bridge frame bur	Bull Nose End Mill	1.5 R0.1	∅ 6	12	50
T11	Bridge frame bur	Ball End Mill	0.5	∅ 6	3	50
T12	Bridge frame bur	Flat End Mill	1.0	∅ 6	6	50
T13	Bridge frame bur	Flat End Mill	0.5	∅ 6	4	50
T14	Bridge frame bur	Ceramic Bur	2.0	∅ 6	13	50

T15	Bridge frame bur	Ceramic Bur	1.0	∅ 6	10	50
T16	Bridge frame bur	Ceramic Bur	0.6	∅ 6	8	50
T17	Bridge frame bur	Extended Bull Nose End Mill	1.5 R0.1	∅ 6	20	50
T18	Bridge frame bur	M1.4 Thread Mill	1.4	∅ 6	4	50
T19	Bridge frame bur	M1.8 Thread Mill	1.8	∅ 6	6	50
T20	Bridge frame bur	M2.0 Thread Mill	2.0	∅ 6	6	50
T21	Bridge frame bur	T-Slot Cutter	/	∅ 6	10	50
T22-T27	/	reserve	/	/	/	50
T28	Calibration rod					

Optional parts

Oil mist machine

The oil mist absorber utilizes a floating oil collection device, which employs vacuum negative pressure to draw the oil-water mixture through a filter element into the oil-water separation tank. The oil-water separation tank is equipped with an oil separation device, liquid level control, oil-water interface control, and a vacuum negative pressure separation device. While the floating oil is separated inside the equipment, the built-in ozone sterilization device and air flotation device operate simultaneously. The liquid after oil-water separation is transported by a discharge diaphragm pump to a secondary filter

element to remove impurities, and the liquid is then discharged from the equipment. This achieves the purposes of oil-water separation, impurity filtration, and sterilization.

name	GW-25-3
Dimensions	Φ360X655
Weight	24Kg
Voltage	Three-phase 380V
Frequency	50-60HZ
Airflow Rate	700m ³ /h
Suction Port Diameter	125mm



Fire Extinguisher

This compact automatic fire suppression system is developed using portable fire extinguishers and fire alarm control devices. It integrates monitoring, alarm, and fire suppression functions, offering easy installation, stable operation, and safe usage. With a wide range of application scenarios, it is capable of addressing various small-space fires, including sudden combustion caused by cutting oil mist during high-speed machine operation.

Dimensions	260X280X580mm
Weight	3Kg
Input Voltage	AC100V-240V
Operating Voltage	24V
Temperature Detection Range	0-600℃



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