

SDM5T

Dental milling machine

INSTRUCTION MANUAL

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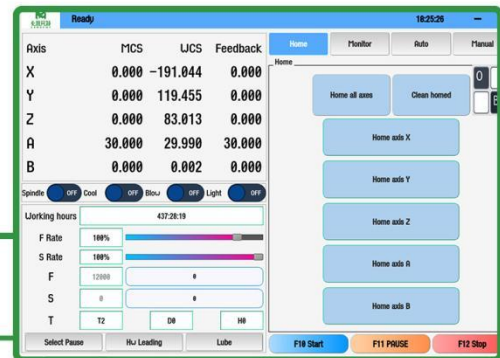
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01. Equipment Introduction

1. SDM5T Product Introduction



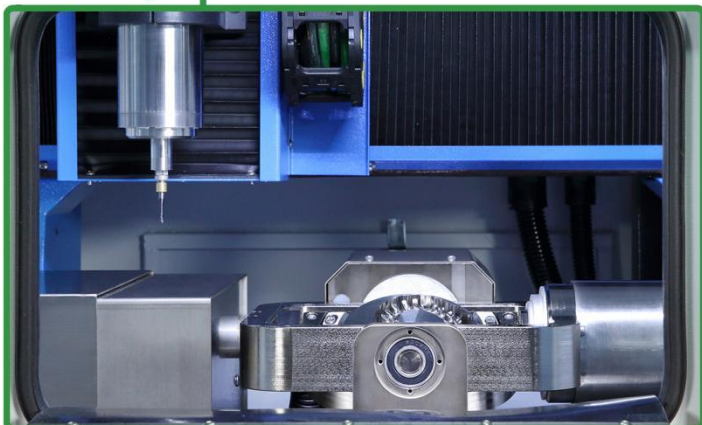
blinker



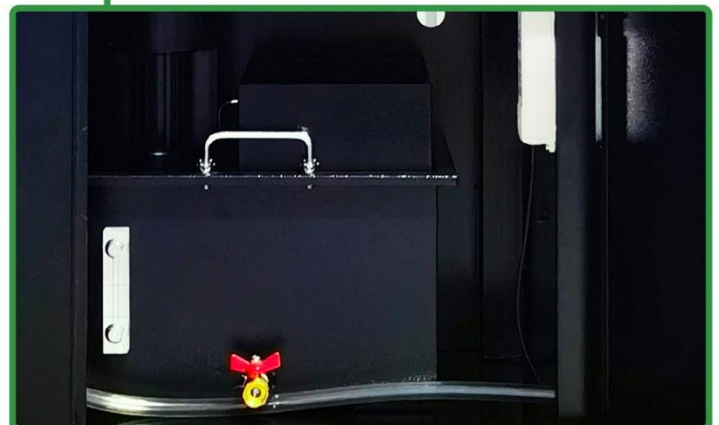
control Panel



Workplace



Built-in water





Handwheel
auxiliary tool



Cooling fan



Side



Air Gun Water Gun

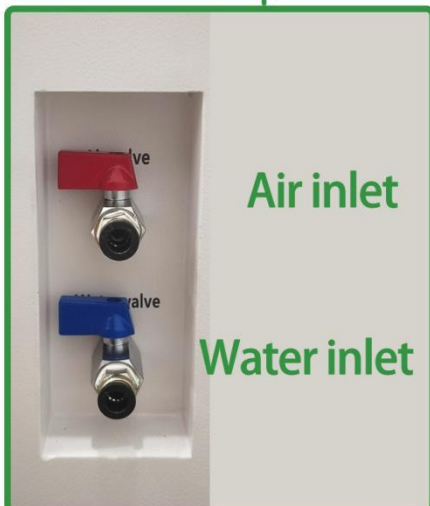


Power
interface

Network port

Gas source

Pneumatic
Components



Air inlet

Water inlet



Lubricating oil
pump and water-gas
cleaning system



02. Installation Environment

1. SDM5T installation environment confirmation

Since this product is a high-precision metal milling machine, it has certain environmental requirements. Please confirm the following installation environment requirements before installation to ensure that the machine can operate normally.







Classification	Influencing factors	Specific requirements and instructions
Indoor environment	Temperature	18°C~28°C
	Ventilation	Ventilate regularly, Keep indoor air clean
	Environment	clean
	Illumination	No direct sunlight or exposure
Electrical environment	Voltage	220V
	Frequency	50HZ/60HZ
	Air pressure	0.6Mpa

03. Equipment accessories and installation

1. SDM5T equipment size



2. SDM5T equipment accessories list

Camdent SDM5T equipment accessories list						
picture						
name	SDM5T milling machine	toolbox	oxygen tube	water pipe	hand wheel	tower
quantity	1	1	2	1	1	1
unit	tower	box	tower	tower		

*This list is the standard accessories that should be included in the package, and does not include other accessories you choose or use instead

2. SDM5T equipment accessories list

2.1 Tool Box List



Packing list					
Item	Name	Specification	Quantity	Unit	Remarks
1	Machine body	SDM5T	1	set	XDU7002237
2	Collect	6mm	1	pc	on the machine
3	Special Spanner		1	pc	
4	Wax disk	98*12mm blue	1	pc	
5	Power cable	2m, 2.5m ²	1	pc	
6	Socket head wrench	2.5MM	1	pc	
7	Socket head wrench	3MM	1	pc	
8	Socket head wrench	4MM	1	pc	
9	Screw	M4*8	1	set	TOOL BOX
10	Screw	M4*10			
11	Screw	M4*12			
12	Screw	M5*10			
13	Screw	M5*12			
14	Screw	M5*25			
15	Set screw	M6			
16	Brush		1	pc	
17	USB flash drive	32GB	1	pc	
18	Fuse	5A, 6A	3	pcs	
19	Cleaning brush	For collect	2	pcs	
20	Calibration disc		1	pc	
21	USB 2.0 CABLE	1.5M	2	pcs	
22	Probe	Auto calibration	2	pcs	
23	Modetika premil holder		1	pc	
24	Glass ceramics holder		1	pc	
25	Acum premil holder		1	pc	
26	Air gun		1	pc	
27	Water gun		1	pc	
28	net Hook for Air gun& Water gun		2	pcs	
29	Air tube	Black	2	pcs	
30	Water tube	Transparent	1	pc	in the machine
31	Handwheel	HPB1-RA01-CM2	1	pc	



Magnetic hook



Probe



USB flash drive



Small brush

Toolbox opened diagram

Checklist (in toolbox)



Air gun

water gun



Screwdriver



Collet removal
wrench



Fuse



Power cable



brush



Calibration disc



USB cable



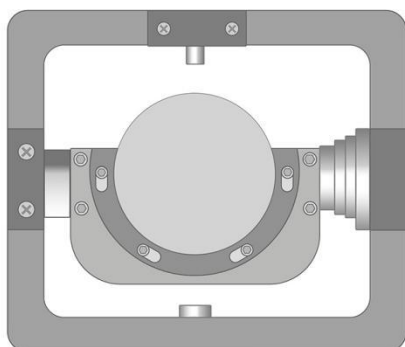
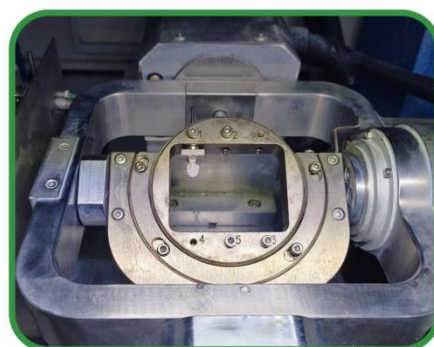
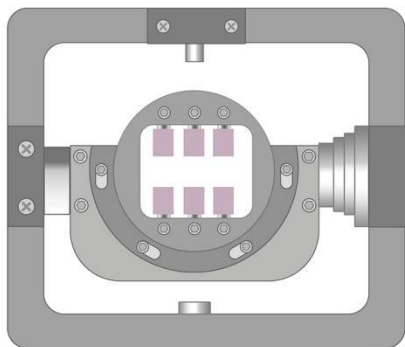
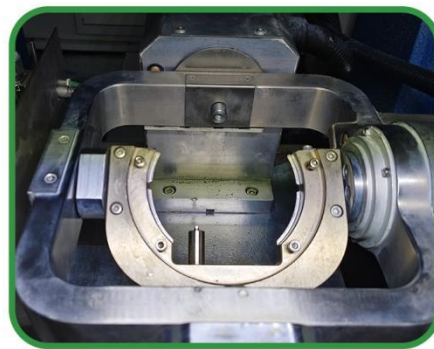
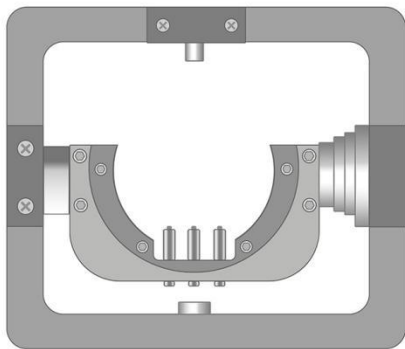
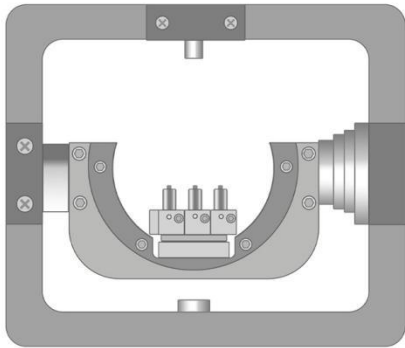
screw



Wax disk

2. SDM5T equipment accessories list

2.2 SDM5T clamp display









3. SDM5T Equipment Installation Guide



1. Open the packaging box and check whether the device is damaged.

清单					
序号	名称	规格	数量	单位	备注
1	机器	SDM5T	1	套	
2	泡沫	5mm	1	套	在机器上
3	泡沫垫块		1	套	
4	螺丝	80*12mm镀锌	1	套	
5	电源线	2m, 2.5m ²	1	套	
6	内六角扳手	2.5mm	1	套	
7	内六角扳手	3mm	1	套	
8	内六角扳手	4mm	1	套	
9	螺丝	M8*8	1	套	
10	螺丝	M8*10	1	套	
11	螺丝	M8*12	1	套	
12	螺丝	M8*10	1	套	
13	螺丝	M8*12	1	套	
14	螺丝	M8*10	1	套	
15	固定螺丝	M8	1	套	
16	孔板		1	套	
17	USB接口	300B	1	套	
18	螺丝	3.5mm	3	套	
19	卡扣	用于固定	2	套	
20	脚踏板		1	套	
21	USB 2.0 数据线	1.5m	2	套	
22	脚踏	用于脚踏板	2	套	
23	脚踏板固定板		1	套	
24	脚踏板固定板		1	套	
25	脚踏		1	套	
26	脚踏		1	套	
27	脚踏卡扣固定板		2	套	
28	脚踏卡扣		2	套	
29	水管	透明	1	套	
30	脚踏板	HP81-PLAS-CMG	1	套	

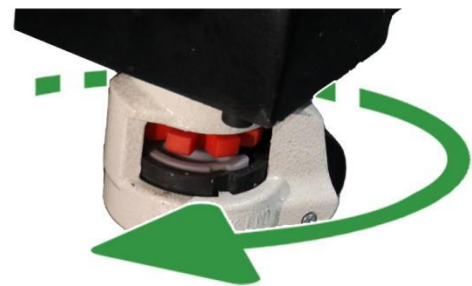
Camdent SDM6T equipment accessories list						
picture						
						
name	SDM6T milling machine	toolbox	oxygen tube	water pipe	hand wheel	tower
quantity	1	1	2	1	1	1
unit	tower	box	tower	tower	indivual	indivual

*This list is the standard accessories that should be included in the package, and does not include other accessories you choose or use instead

2. Check the accessories according to the packing list.



3. Place the rear bottom pallet and move the machine onto the pallet.



4. Turn clockwise to raise the wheel, and turn counterclockwise to lower the wheel.



5. Connect the power cord, air supply system, and cooling water system as required.

04. Equipment Operation Guide

1. SDM5T User Guide

1. Preparation before startup



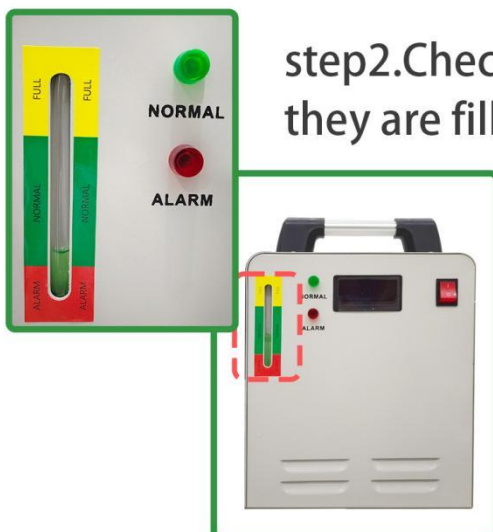
step1.Check the air pressure.
Around 0.6MPa is the normal
air pressure.



water tank



oil tank



step2.Check the water tank and oil tank, and make sure
they are filled with enough water and oil.



step3.Check the antifreeze and
power supply of the chiller.

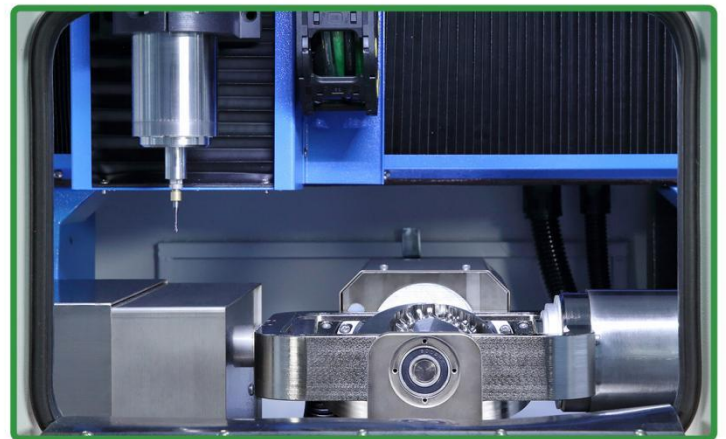
Step4.After connecting the power, press the power button to turn on the device.



Step5.Place the needle according to the position marked on the tool magazine.

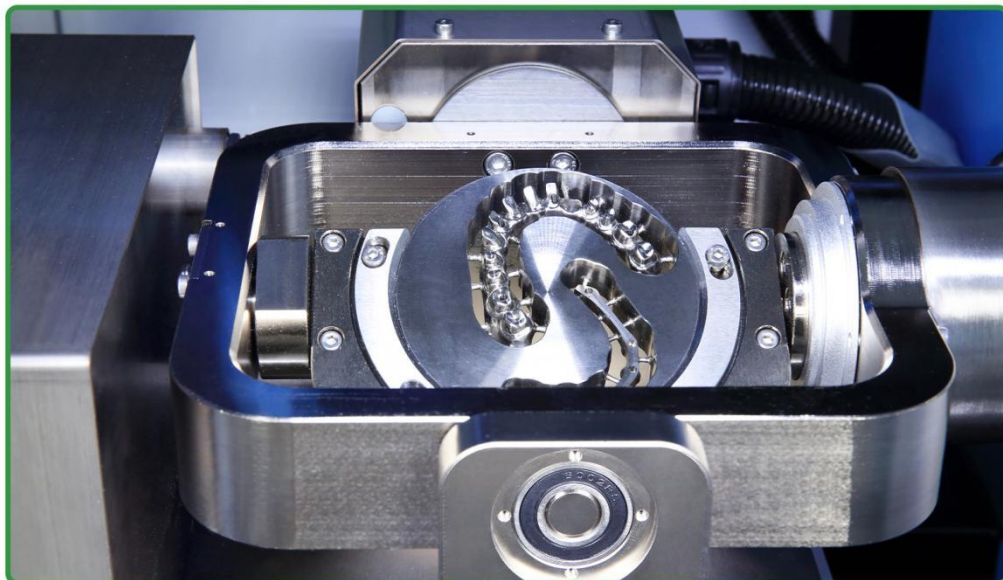


Step6. Check whether the machine's tool gripping condition is consistent with the control panel.



*T0 refers to the no-tool state.

Step7. Installing the material disc.



Step8. Select the file and click to start processing.



2. Precautions for using SDM5T



1.It is strictly forbidden to open the working chamber during processing.



2.During processing, you need to wait until the machine stops completely before picking up the finished parts.



3.Regular maintenance and cleaning



4.Check the water tank and fuel tank before use

3. Problems and solutions after SDM5T alarm



1.The brake system is not turned on.
Click the reset button to reset the system.

2. Insufficient air pressure

Check whether the air compressor and air pipe are normal, and check whether the air pressure reaches the 0.6MPa required by the machine



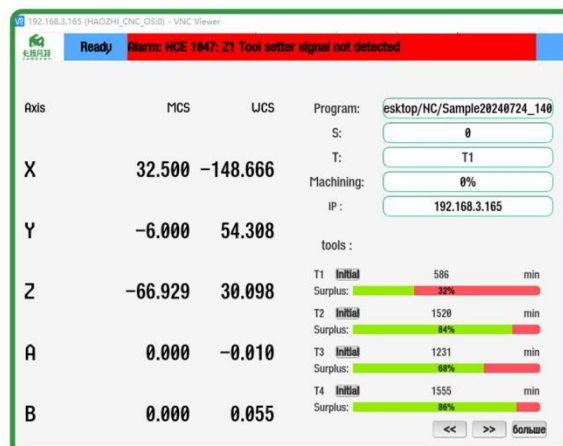
3. The machine zero position is not set

Click the home button to solve it.



4. No tool setting signal is detected

Check whether the tool is broken and replace it in time.



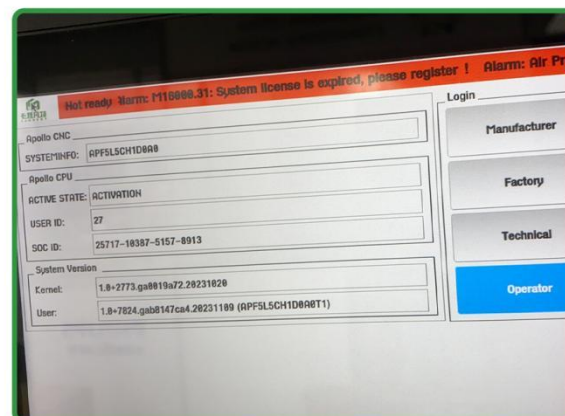
5. Forward software limit/position limit

Click the reset button to reset.



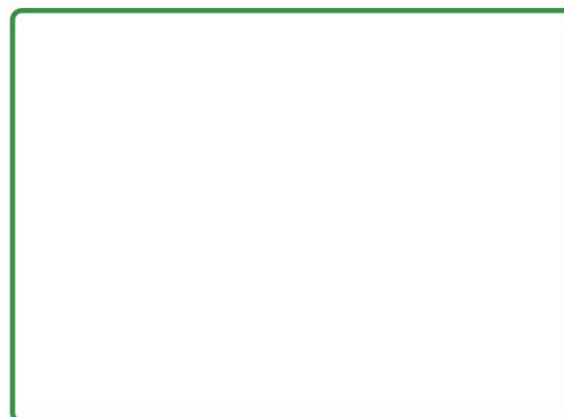
6. The information has expired, please register in time

Ask the technician to obtain new license information.



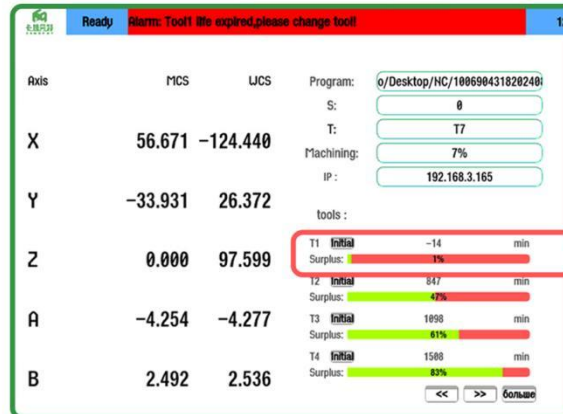
7. The tool setting value has a large deviation. Please check and re-set the tool.

Check if the tool is broken. Replace the tool and re-set the tool.



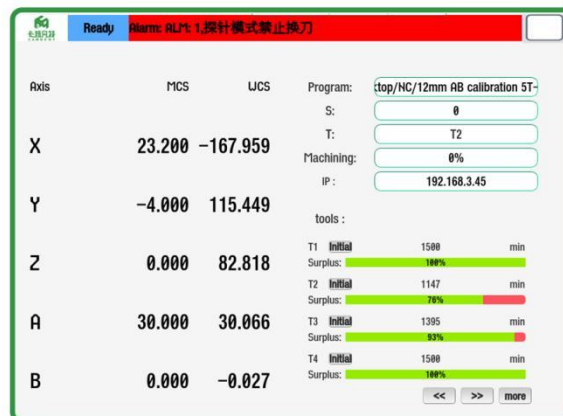
8. Tool life is 0

Check and replace the tool, and initialize the life value in the tool life



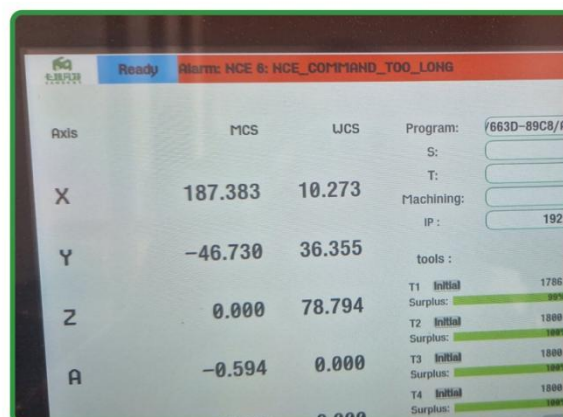
9. Unable to change tool in probe mode

Check the Probe interface and remove the USB flash drive or data cable from the interface.



10. The file was not copied completely.

Please re-import the NC file into the machine.



4. SDM5T Calibration Method

Automatic calibration

Step1. First install the titanium premill fixture, and install the titanium premill on P1, P2, P3

Step2. Place the calibration probe in tool magazine No. 14.

Step3. Click T to change tool to No. 14, and connect the probe and machine with a data cable.



*Arum P1 P2 P3
Medentika11.5 P4 P5 P6
Different titanium premill use
different calibrations

Step4. Click Settings, enter the password (769816), enter automatic calibration, select P1,P2, P3, and click Run.



*Arum P1 P2 P3
Medentika11.5 P4 P5 P6
Different titanium premill use different calibrations



Disc calibration

(Please make sure the disc calibration is clean for accurate calibration)

step1. First install the disc fixture and the calibration disc (install the same as the material disc)

step2. Place the calibration probe in tool magazine No. 14.

step3. Click T to change tool to No. 14, and connect the probe and machine with a data cable.



step4. Click Settings, enter the password (769816), enter automatic calibration, select B , A , X , Y , Z , and click Run.



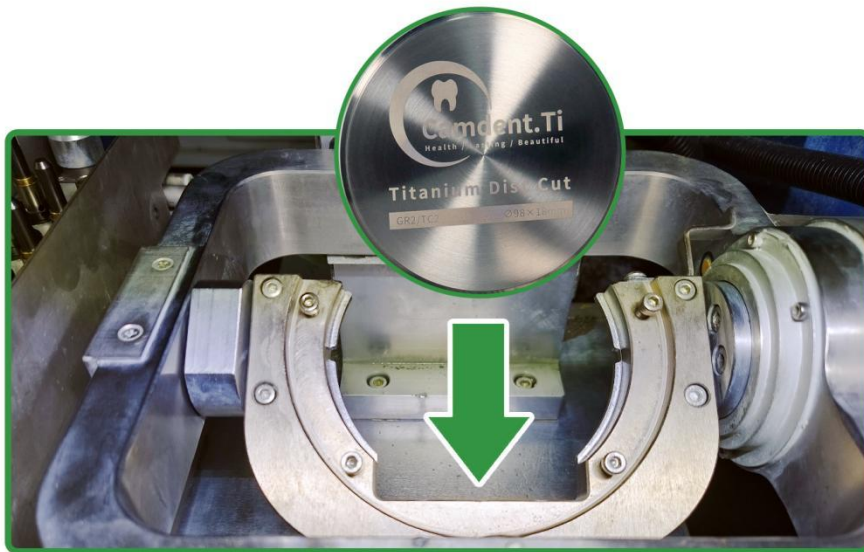
***Manual calibration method is shown in the zip file video.**

5. SDM5T Installation and precautions of various fixtures

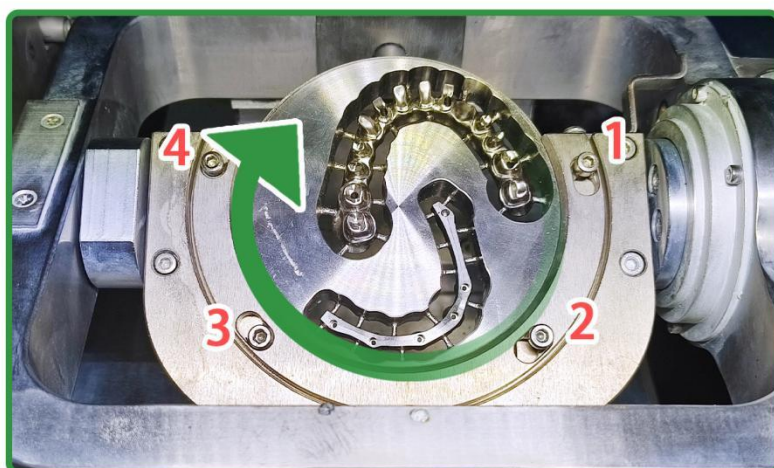
*Please clean the fixture and the location where the fixture is installed before changing the fixture or tray each time to ensure that the fixture is installed tightly and the accuracy of the machine is guaranteed.

Mounting disc

step1. Place the tray in the corresponding position.



step2. After placing the gland, turn it clockwise until it is in place and tighten the screws.

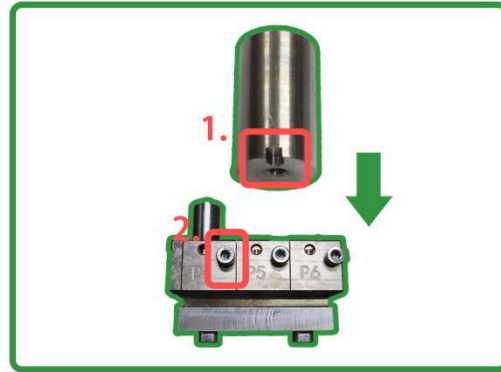


*Pay attention to the direction of the cap, the chamfered one should face upwards
 Wrong direction may cause the tray to be unstable, affecting processing

It is not necessary to remove all the screws to remove the material tray. Just loosen the screws slightly so that the pressure cover can be turned counterclockwise, then remove the pressure cover and then the material tray.

titanium premill/fixture Installation (Medentika)

step1. When installing the titanium premill fixture, pay attention to the direction of the titanium premill and then fix it with screws.

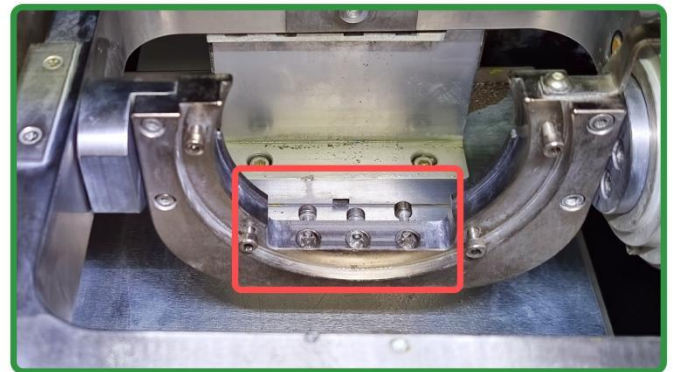
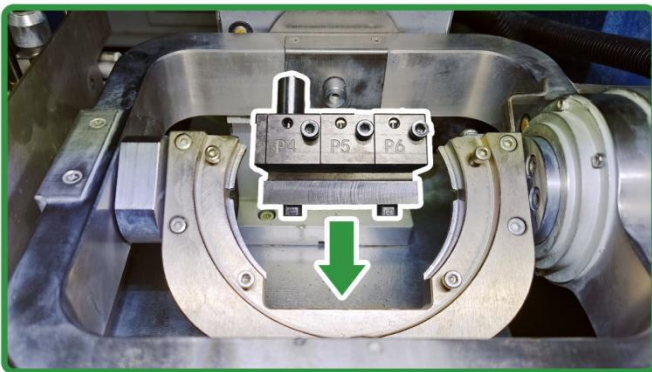


*1. Pay attention to the installation direction of the titanium premill.

When installing, the notch should face us.

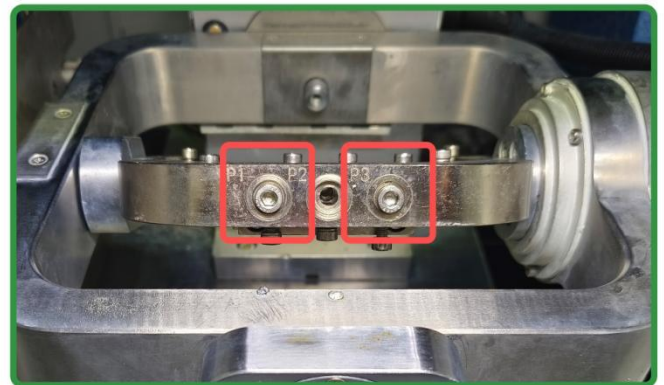
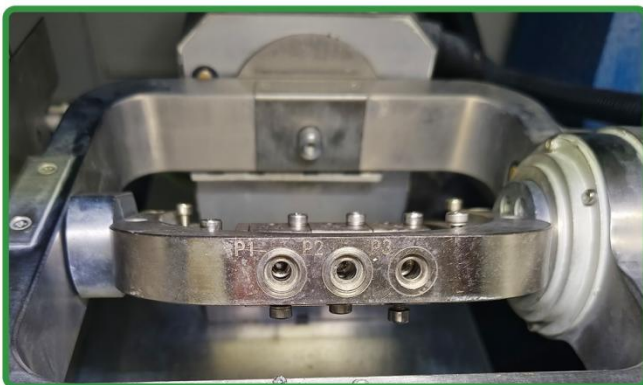
2. Screw fixing position

step2. When installing the titanium premill fixture, pay attention to the direction of the fixture.



* Pay attention to the installation direction of the fixture and the corresponding raised area in the middle.

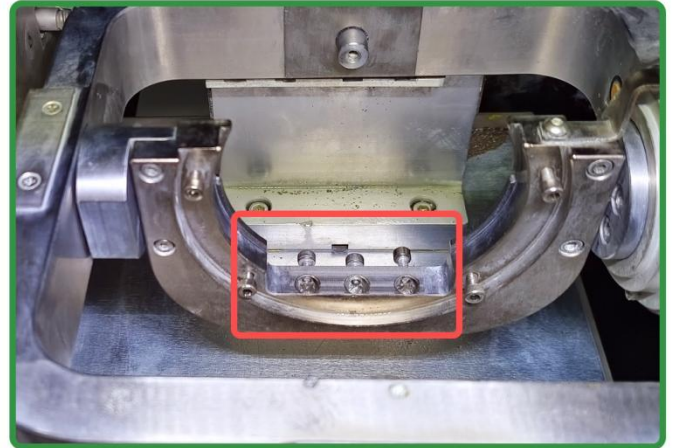
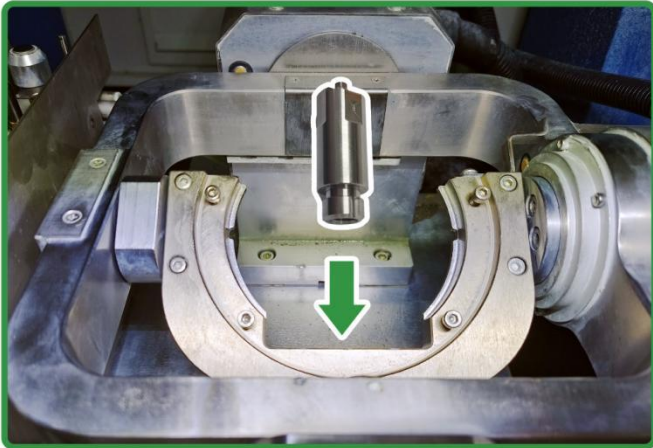
step3. Stabilize the clamp with screws.



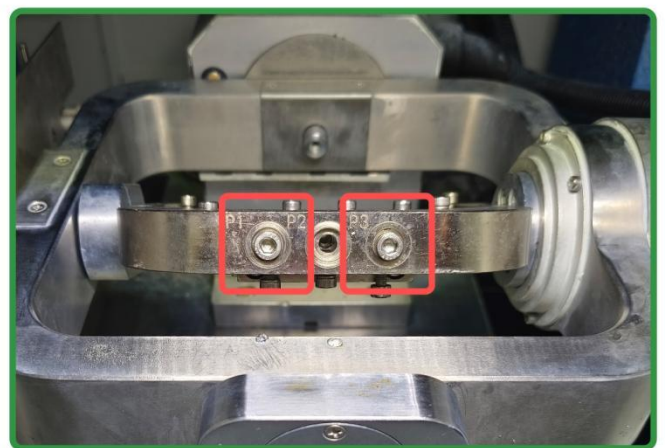
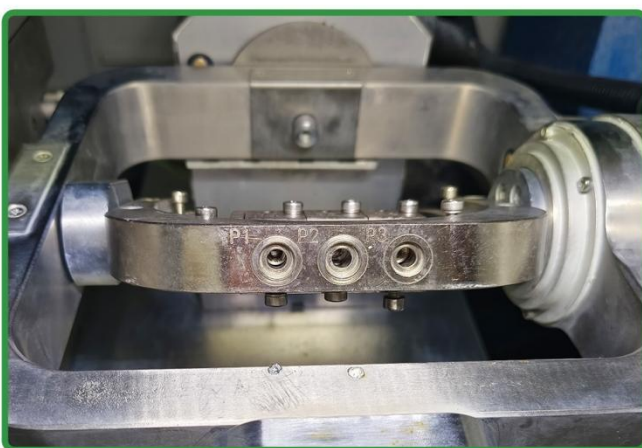
*Pay attention to the installation direction of the clamp and only install it in the corresponding two places.

titanium premill/fixture Installation (Arum)

step1. step1. Pay attention to the direction of the titanium premill when installing it.



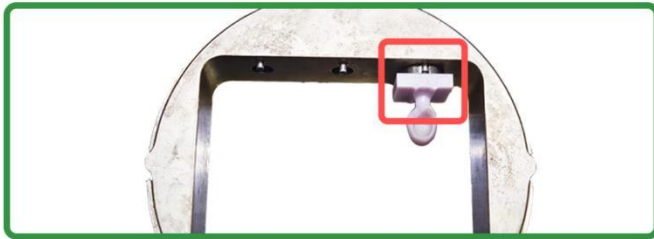
step2. Stabilize the titanium premill with screws.



*Pay attention to the installation direction of the clamp and only install it in the corresponding two places.

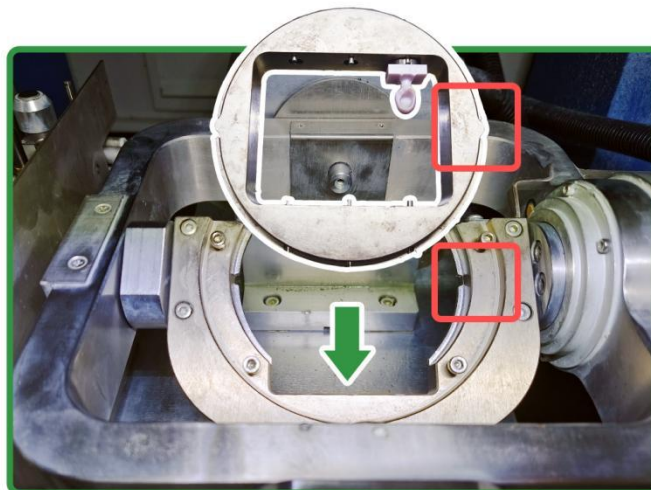
Glass ceramic fixture and glass ceramic installation

step1. When installing glass ceramics, pay attention to the direction of the glass ceramics.



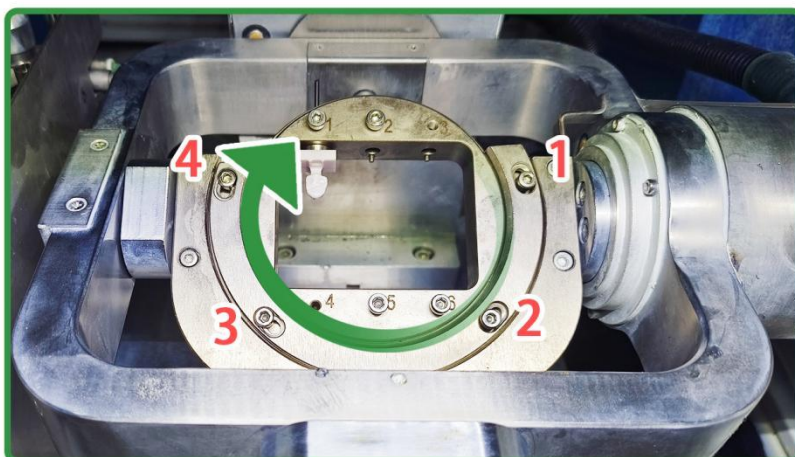
*Note that the chipped side of the glass ceramic should be installed towards us.

step2. When installing the glass ceramic fixture, pay attention to the direction of the fixture.



*Note that the back of the clamp is shown at this time.

step3. Stabilize the glass ceramic with screws.



* Pay attention to the direction of the gland, the chamfered one should face upwards. Wrong direction may cause the tray to be unstable, affecting processing.