AIXIN MEDICAL

USER MANUAL

AX-YD

Denture Injection System



Description

Flexible Denture Injection System is the equipment which specializes in making flexible partial dentures. It features simple and reliable operations, long lifespan, low failure rate, stable quality, high success rate etc.

Specifications:

1. Rating Voltage: 220V / 110V ±22V 50HZ / 60HZ ±1HZ
2. Power: 450W
3. Working Temperature: 260℃-310℃
4. Heating Time: 9 ~13 minutes
5. Environmental temperature: -5℃-45℃
6. Environmental relative humidity: ≤90%
7. No corrosive gas in ambient air.

Structure and Working Principle

1. This injection system is composed of a heater and a hot press.
2. The function of the heater is that it heats the cartridge at the temperature of 287℃±10℃ for about 9-13 minutes, making the flexible denture materials melt in the cartridge.
3. The function of the hot press is that it injects the molten materials into flask which is prepared in advance.
4. The heater will make a beep sound when it finishes heating.
5. Device structure diagram:
6. Electric circuit diagram :

Dimensions and weight

1. Hot Press Shipping Dimension: 65cm X 36cm X 35cm
2. Heater Shipping Dimensions: 57cm X 38cm X 29cm
3. Gross weight: 45kg

Installations and Adjustments

1. Fix the Hot Press to the worktable with 4 bolts. The height of the table should be convenient for operations.
2. Put the heating furnace next to Hot Press, the distance between the two units should be close enough for convenient operations.
3. Before adjusting, adjust the temperature to 287℃ and the heating time to 11 minutes.
4. Connect the plug to a power supply and turn on the power, after that turn on the timer, the device is working normal if it the alarm is activated in the pre-set time and the fluctuation of the temperature does not exceed 10℃ after it becomes , it proved that you bought a qualified flexible denture machine.

Instructions

1. Before operating the machine, screw down the nut of the spring on the two poles of

the Hot Press and put the flask on the base of the Hot Press.

2. First, put oil on the inner surface of the tube with a brush, then insert it into the heater, set the temperature to 287 ℃ and heating time to 11 min.
3. Connect the Heater to a power supply, preheat for at least 20 minutes. It is normal for the temperature to go above 287℃, so no adjustment is needed
4. When the temperature becomes stable (variation within 10℃ is considered normal), put oil onto the cartridge with a brush and the copper bar and then put them into the cartridge holder, put in the cartridge with material first and then the copper bar. (put in the big copper bar for medium size cartridge, put in both copper bars for small size cartridges.
5. After the cartridge is put inside the heater, turn on the timer, after 11 minutes it will make a beep sound. Users can take out the cartridge to put it on the Hot Press for injection. Finally remove the cartridge 2 minutes after the injection.
6. Other operation please refer to <flexible denture operation guide >

Safety protection device and Cautions

1. This machine has a grounding protection. Note that it must be grounded while using.
2. After the injection, there might be some material left in the cartridge holder, it can be pushed out by the Hot Press, if not, users can start the heater for easier removal.

Troubleshooting

Problem	Cause	Solution
Temperature controller fails to display temperature	1. Temperature control not connected or has bad contacts. 2. Temperature control having problems. 3. No power in the power supply 4. Power switch malfunctions	1. reconnect 2. change temperature control. 3. check power supply 4. change power switch
Temperature control displays false information	1. temperature control having problem 2. The power cord of the temperature control not connected or having bad contacts. 3. The power line of the temperature controller have problem. 4. The power line of the temperature controller and the earth peg connect inversely.	1. change temperature controller. 2. re-connect the power line. 3. change the power line. 4. re-connect.
Time controller fail to display time	1. time controller tie wire peg un-connect or bad contact 2. time controller have problem. 3. electrical source have no electricity. 4. power switch malfunction	1. re-connect. 2. change time controller. 3. check the electrical source. 4. change power switch
Time controller fail to alarm after pre-set time	1. buzzer fail to connect or bad contact. 2. time controller have problem. 3. buzzer have problem.	1. re-connect. 2. change time controller. 3. change buzzer.
The heart of the heating furnace fail	1. the heating loop tie-wire peg of the heating furnace unconnected or bad contact.	1. re-connect. 2. change the heating

to warm	2. the heating loop burnout.	loop.

Maintenance and after sale service.

1. When the machine is keep unused, it should be cut off the power, and clean out the materials remains and dust, to avoid impacting normal use.
2. The complete machine is kept in repair for three years, which the heating loop for three month, and temperature controller, time controller for one year. The dealer at your end who consigned by our company will supply our service for you.
3. In the period of keeping in repair, as long as you send the shattered component to us or the franchised dealer of every area, we will provide free repair and change in time.
4. Maintenance all the life, and provide technical consultation.

Packing list

Part	Quantity
Hot Press	1pcs
Heating furnace	1pcs
Flask	1pcs
In-take tube	1pcs
Out-take tube	1pcs
Copper cushion	Thick and thin
hexagon ring spanner	1pcs
Power cord	1pcs

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