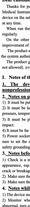
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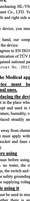
License No.: 20180203 in Hangzhou,Zhejiang
Standard No.: QZJXB04-2009

ALGINATE MIXER INSTRUCTION

HL-YMC Ⅰ HL-YMC Ⅱ



HL-YMC Ⅲ HL-YMC Ⅳ



Hangzhou ZhongRun Medical Instrument Co., LTD.

Dear customer:

Thanks for purchasing this HL-YMC Alginate mixer produced by Hangzhou ZhongRun Medical Instrument Co., LTD. You must read the instruction carefully before using the mixer so that we will get safe and stable mixer to be used for a long time and to be at no loss and at any time.

When use the device, you must observe the rules strictly and preserve correctly and properly.

On the other hand, our company has the right to reserve an extra notice of the improvement of our products.

The product agrees to EN ISO13485: 2003+AC 2009 standard. which is approved by the centre documentation of YUE Medical Technology Ltd.

The product passed national patent patent No: ZL 2007 2 0106233.0 (constructing utility model) and patent No: ZL 2007 3 0106233.0 (appearance design).

1. Notes of the Medical appliances

1) The device must be used to specific persons instead of nonprofessional users.

2) Before operating the device:

a. The mixing tube should be well connected with vessel or any other liquid.

b. It must be kept and used in the place where there is no adverse air caused by air pressure, temperature, humidity, ventilation, dust, sunshine, and salt, ion, etc.

b. It must be placed steadily and stably without any tilt, quake or the possibility of tilt.

d.It must be far away from chemicals and chemical gas.

f) Power socket must apply with the required voltage and current of the device. Make sure to set the switch and fuse correctly and the device is in negative pressure under the safety grounding.

3) During using the device:

a. Check up your notice using. Make sure there is no abnormal phenomenon on the appearance, say on worm, the electrical lines of the socket is integrated without any crack or breakage, the switch and indicator are correct.

b. Make sure the safety grounding correctly and stably.

b. Make sure the appliance voltage is in accordance with the requirement.

4) Notes while using it

a. The device is designed for intermittently using, it's used for mixing impression material.

b. Another whether there is any abnormal phenomenon, such as noise, Once there is abnormal, turn off the switch and pull out the socket.

c. The mixing tube should be well connected with the external force is too big to overloading the motor, the machine will stop working automatically within 5 seconds, this is a kind of protection, please wait for a while, then turn on the button, or stop on the foot control again to start working.

d) The patient mouth's context the device.

e) The patient mouth's glasses to avoid spatters.

5) Notes after using

1) Checks must be made according to the requirement strictly and turn off the switch.

2) After turning off the switch, the socket must be held down instead of pulling down.

3) Clean the mixing tube and the mixing rotor in time.

4) Clean the surface of the device with soft cloth and neutral detergent in time.

5. It must be kept and used in the place where there is no adverse air caused by air pressure, temperature, humidity, ventilation, dust, sunshine, salt, ion, etc.

6. It must be placed steadily and stably without any tilt, quake or the possibility of tilt.

7. It must be far away from chemicals and chemical gas.

8. Power socket must apply with the required voltage of the device and its accessories must be kept from the electrical appliances.

6. You power if dismantle, or repair the device by yourself when not provides, must contact distributors, and repair by specific person.

7. You mustn't remake the device, or you have to be responsible for the consequences and lose the warranty at last.

2. Regular check and maintenance

1) Under normal circumstances, it is suggested that check once before using and make maintenance.

2) If it is in idle for a while, the check on the safety and function is needed before operation to avoid the accident, such as the fire.

3. To guarantee the safety of using the device, the rules must be observed:

1. Pay attention to spatula and mixing bowl when operation, avoiding water and impression material spill out to hurt somebody or something.

2. Because there may occur induction electric or leakage, the device must be far away from the patient's eyes.

3.The device should be cleaned and placed in dry and ventilated room without corrosive gas, and avoid the direct sunlight.

4.To prevent the water and gum from entering the motor, the mixing tube must be kept and assist phases.

5. The instruction explains the safe use of the device specifically, please be sure to put it near the device and read it carefully and frequently.

6.Our company is not responsible for the following problems:

1. Mechanical damage and personal accident caused because the staff out of company doesn't operate according to rules.

2. Mechanical damage and personal accident caused due to using the parts out of our recognition.

3. Mechanical damage and personal accident caused because of not obeying the above rules promptly.

4. Mechanical damage and personal accident caused due to violating the required voltage, grounding and phased environment.

5. Mechanical damage and personal accident caused by natural disasters such as earthquake, fire, etc.

6. Spatula and mixing bowl are easy to be damaged, the fee on renewing and changing them should be dealt by yourself.

Marks on the introduction:

Caution

Mechanical damage and personal accident will be caused if you violate it.

Attention

Mechanical damage and personal accident will be caused if you violate it.

III. Type and Specifications

1. **Product Name**: Alginate mixer

2. **Specifications**: HL-YMC1
HL-YMC II
HL-YMC III
HL-YMC IV

3. **Power supply**: AC 110V, 60 Hz ①
AC 120V, 60 Hz ①
AC 220V, 50 Hz ①
AC 230V, 50 Hz ①
AC 240V, 50 Hz ①

4. **Motor power**: 65 W

5. Comprehensive performance comparison

TYPE	SPEED	Timing Range +/-	WEIGHT(g)	SIZE(mm)
HL-YMC I	2800 speed/120rmp high-speed/120rmp	Regular alarm/20s, no timing	2300	260*220*190
HL-YMC II	2800 speed/120rmp high-speed/120rmp	Regular alarm/20s, no timing	2360	260*220*190
HL-YMC III	2800rmp	Regular alarm/20s, no timing	2360	260*220*190
HL-YMC IV	0-300rmp	Regular alarm/20s, no timing	2360	260*220*190

6. **Mixing Time**: according to the specifications of the impression material manufacture

7. **Classification of the devices**: Ⅱ-B: Electrical devices. common devices. non -sP or non-APG devices, use ten minutes.

8. **Service life**: 5 years.

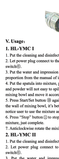
6. Names of parts and their specifications:

HL-YMC I



1. Shell 2. Mixing bowl 3. Power supply indicator light 4. Spatula
5. Timing indicator light 6. Power switch 7. Base 8. Power cord 9. Nameplate
10. Start/Start button (low speed/high speed changer) 11.Stop button

HL-YMC II



1. Shell 2. Mixing bowl 3. Power supply Indicator light 4. Spatula
5. Timing indicator light 6. Power switch 7. Base 8. Power cord 9. Nameplate
10. Start/Start button (low speed/high speed changer) 11.Stop button 12.Foot switch
13. Foot switch connector

Operating Instruction: HL-YMC I

HL-YMC II

After 20S working, the warning light will flash and sound a beep



START SET:
First press is low speed, second press is high speed



① Power switch: a black boot-shaped switch behind the machine.

② Start button: a red button on the top of the machine. Press down the mixing bowl into the base, it will be locked. On the contrary, the mixing bowl can unlocked.

③ "Start/Set" button: the "Set/Start" button in a left side of the front panel. The first press starts to low speed; it will become high speed during 20S after.

④ "Stop" button. The "Stop" button is at right side of the front panel, press "Stop" button and the working immediately.

HL-YMC III



1. Shell 2.Mixing bowl 3.Power supply Indicator light 4. Foot switch
5. Spatula 6. Warning indicator light 7.Power switch
8. Foot switch connector 9.Fuse 10. Power cord 11. Nameplate

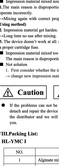
HL-YMC IV

The names of parts are the same as HL-YMC III

2 knb function display lens



Operating Instruction: Indicator diagram of the foot switch connect with the mainframe.



V. Usage:

1. HL-YMC I

1. Put the cleaning and disinfected mixing bowl into the tray, turn clockwise to lock it.

2. Let power plug connect to the electric socket with grounding, turn on the power switch.

3. Put the water and impression material into the mixing bowl according to the proportion from the manual of impression material. Then mix to blob state.

4. Put the spatula into mixture, press Start/Set button(5 s) to start at low speed (the liquid crystal display will show the working time), after 20S the alarm light will flash, then to notice user to use the mixture as soon as possible.

5. Press Start/Set button (2 s), stop working. Use spatula along mixing bowl to remove the mixture, just complete.

7. Antichlorination rotate the mixing bowl, then take it out, and clean it.

2. HL-YMC II

1. Put the cleaning and disinfected mixing bowl into the tray, turn clockwise to lock it.

2. Let power plug connect to the electric socket with grounding, turn on the power switch.

3. Put the water and impression material into the mixing bowl according to the proportion from the manual of impression material. Then mix to blob state.

4. Put the spatula into mixture, press Start/Set button(5 s) or step on foot control①for start at low speed (the liquid crystal display will show the working time), after 20S the alarm light will flash, then to notice user to use the mixture as soon as possible.

5. Press Start/Set button (2 s) or step on foot control①, stop working. Use spatula along mixing bowl to remove the mixture, just complete.

7. Antichlorination rotate the mixing bowl, then take it out, and clean it.

3. HL-YMC III

1. Put the cleaning and disinfected mixing bowl into the tray, turn clockwise to lock it.

2. Let power plug connect to the electric socket with grounding, turn on the power switch.

3. Put the water and impression material into the mixing bowl according to the proportion from the manual of impression material. Then mix to blob state.

4. Put the spatula into mixture, step foot control①, after 20 seconds working, the warning indicator light ⑥ will flash and beep to remind the user to use the impression material as soon as possible. Step foot control①again to stop working. Use spatula along mixing bowl to remove the mixture, just complete.

5. Overload detection: when the force caused the motor overload, it will automatically stop rotating after 3 seconds, then step on foot control to start again.

6. Long foot control, it similar to automobile accelerator.

7. Adopt the large LCD display, which can bring vivid image, let you be full of wit and humor in operation.

9. Leave foot control, the machine will stop. Use spatula along mixing bowl to remove the mixture.

10.Antichlorination rotate the mixing bowl, then take it out, and clean it.

Attention

The mixing tube should not be too long, (generally within 200), the effective using time according to the manual of impression material manufacturer. After well mixing, please take out mixture promptly to avoid dry condensation.

8. After using, turn out off the switch and confirm the indicator light is off.

The notice during using:

Attention

A. Long time mixing may result in bad performance of impression material.

B. After using, turn out off the switch.

C. Please unplug the power cord if you do not use in a long time.

warning

A. The equipment is not water proof.

2. When using impression mixer, please don't use it for other materials, especially toxic liquid and chemicals.

B. Please don't touch the rotated parts when using to avoid the harm of the human body. Especially the metal part between the bowl and body.

VI. Daily inspection and maintenance

A.Turn off the power switch.

warning

1) The inspection and maintenance must be done after complete cooling.

2) The plug must be pulled down.

2. Please clean the bowl and spatula each time after using.

3. Wipe away the dust on surface.

Attention

Chemical cleaner mustn't be used for cleaning the device.

VII.Answers to common problems

■ Impression material mixed nonuniform or pat nonuniform.

S.The main reason is disproportion of water and impression material, mix too short or too long time.

<Mixing speed, water proportion, correct operation>Details please check HVE Using method)

2. Impression material get harden.

<Long time to use after mixing

3. The mixing tube is not at all clock whether the fuse is broken, if it is, please change a same amperage fuse.

■ Impression material mixed too sparse or too thick.

The main reason is disproportion of water and impression material.

■ Not solution

1. First consider whether the impression material is destroyed.

--> change new impression material and operate it again

Caution **Attention**

● If the problems can not be solved according to the above suggestions, don't operate and repair the device by yourself. It is a must to keep in connection with the distributor and we will supply our specialized staff to solve them for you.

VIII.Packing List:

1. HL-YMC I

NO.	Name	Quantity(piece)
1	Alginate mixer	1
2	Mixing bowl	1
3	Spatula	1
4	Fuse	1
5	Instruction	1
6	Certificate	1
7	Warranty card	1
8	Foot switch	1

2. HL-YMC II

HL-YMC III

HL-YMC IV

NO.	Name	Quantity(piece)
1	Alginate mixer	1
2	Mixing bowl	1
3	Spatula	1
4	Fuse	1
5	Instruction	1
6	Certificate	1
7	Warranty card	1
8	Foot switch	1