

**novamix**

***Alginate Automatic Mixer***

**Preface:**

Many thanks for your purchasing “Novamix” alginate automatic mixer.

Prior to using this product, please read this user manual carefully and its correct maintenance method to enable the function of this product can be fully implemented.

After reading this user manual, please keep it properly. If there is any further improvement or the contents of this manual shall have any further amendment, no notice shall be otherwise advised.

**Notes :**

1. We shall not assume any responsibility if any malfunction, damage, or accident of personal body injury is caused by the improper removal, modification, maintenance, or repair as not being conducted by the dealer designated by us.

2. We shall not assume any responsibility if any malfunction, damage, or accident of personal body injury is caused by the use of the product not provided by us.

3. We shall not assume any responsibility if any malfunction, damage, or accident of personal body injury is caused by the improper removal, modification, maintenance, or repair as not use the parts provided by us.

4. We shall not assume any responsibility if any malfunction, damage, or accident of personal body injury is caused by the ambient environment as not in compliance with the power, installation environment and using conditions specified on this manual.

5. We shall not assume any responsibility if any malfunction, damage, or accident of personal body injury is caused by fire disaster, earthquake, flood or struck by lightning.

**Important subjects of accident prevention or malfunction:**

Prior to reading the operation of Novamix Alginate Mixer, please read first the “Important Notes” marked. The operation shall be in compliance with “Important Notes” and “Notes for the Use of Medical Therapeutic Machine (Safety and Danger Prevention)” specified on the manual so as to avoid any malfunction in advance, and please use correctly to avoid any personal injure.

**Important notes for the possible personal injure while in operation:**

The operation shall be in compliance with “Important Notes” and “Notes for the Use of Medical Therapeutic Machine (Safety and Danger Prevention)” specified on the manual so as to avoid any malfunction in advance, and please use correctly to avoid any personal injure.



Danger

It is possible to cause death or serious injure.



Warning

It is possible to cause obstruction of damage to machine.



Notes

It is possible to cause light personal injure or damage to goods.

### Name of Each Portion and accessories:

1. Main Power switch
2. Power switch (on/off)
3. Start/Stop button
4. Memory Selection button
5. Mixing time indicator
6. Adjustment button for mixing time
7. Display of Memory address
8. Electric cable
9. Plug of power cable
10. Holder for power cable
11. Mixing Bowl
12. Outer frame of machine body
13. Spatula
14. Stirrer
15. Water pour bottle
16. Plastic Basket

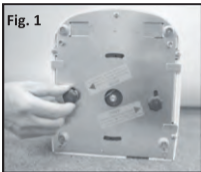


**Important notes while in use:**

The following items specified should be noted closely so as to assure smooth operation of free from the malfunction, damage of machine, or the accident of personal injury:

1. In order to extend the setting time of alginate powder while in mixing, please use cool water (10°C ~20°C). If desire to use the fast-setting alginate powder, it should specifically watch the setting time.
2. In order to avoid any malfunction, if the mixing bowl has not been closely tightened with cap, the machine shall not be started. If only water is contained, the mixer shall not be started.
3. The limited weight of mixing amount on each is 25g ~ 100g.
4. Since the possible leakage will be occurred of mixing bowl while it is running, so it only can be used in the tightened state.
5. If the small hole at the center of mixing bowl cap is jammed, this would cause difficulty on tightening. The jam of small hole shall be removed immediately if any.
6. If there is any abnormal noise or vibration while in the mixing, the ST/STOP button shall be pressed immediately. The lift the cover to check if any disorder condition happened.
7. The mixing bowl is belonged to consumed product of accessories, if it can not be covered tightly due to transformation, please change a new one.
8. If the machine is to be sent for repair or delivered to a far place, please fasten the motor by two fixing bolts attached for handling (Fig.1). Otherwise, it will cause a more serious or other malfunction of further damage.

Fig. 1



### Environmental conditions for installation or use:

#### 1. Conditions for installation and using place:

- a- Please use inside the house.
- b- Please use at the ambient temperature between 5°C ~ 40°C
- c- Please use the power voltage of inquired AC220V (±10) or AC110V (±10)

#### 2. Installation:

- a- Please install on the cabinet or table of strong and firm with flat surface, the strength of which is sufficient to support.
- b- Never install at the place near the inflammable substance.

#### 3. Fastening bolts for transportation:

Prior to installation, please remove 2 fastening bolts fixed at the bottom of machine (Fig.1). If the mixer is out of order and needs to be sent for repair or delivered to far place, please fasten by the fixing bolts attached in the delivery, otherwise it could possibly cause further malfunction or damage. Please keep the fastening bolts properly for the future use.

Fig. 2



#### 4. Power:

- a- Please connect the power cable to the outlet on the reverse side of machine. (Fig.2)
- b- Please connect with co-axial cable of AC220V 50/60Hz with the capacity of 3A or AC110V 50/60Hz with the capacity of 5A. In order to avoid shocking, the power cable shall be connected at the grounding terminal of 3P co-axial cable.



Fig. 6



### Operation Method:

#### 1. Mixing of alginate mould powder

- a- Press down the main power switch on the reverse side of machine. (Fig 3)
- b- Press down the power switch located at the control panel, and to make sure that the indicator of digital display on the operation panel will be lit on. (Fig. 4)
- c- Prepare the alginate powder and cool water required ( $10^{\circ}\text{C} \sim 20^{\circ}\text{C}$ )

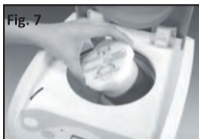
#### Important

The hardening time can be controlled by water temperature. Particularly in the summer time, if not use the cool water, the hardening time will be shortened.

- d- The amount of measure cup shall be calculated as per the correct scale designated by the supplier of alginate impression material, please also note the water amount added will affect the viscosity of alginate powder. (Fig.5)
- e- Close the mixing bowl cap (Fig.6)

#### Important

The mixing bowl cover must be closely tighten; otherwise, the alginate powder will splash during mixing and will further cause the malfunction of machine if not. The mixing bowl cover belongs to consumed product, if it can not be covered due to transformation, please change by a new one.



- f- Please place the mixing bowl inside the mixing well (Fig.7)
- g- Place the mixing bowl inside the mixing well and then close the cover of mixer properly. Make sure whether the cover has been closed properly; or if not, the mixer can not be started.
- h- Meet with the mixing amount to set the time required by timer (please refer to the "Setting for Mixing Time). When complete the setting, then press down the start button (Fig.8) The digital display will count second by second and will display the time of completion. The cover of mixer is fully locked when running, and therefore, it is very safe unable to open.

### Important

If intends to stop the mixer during mixing, only press down the STOP button, the mixer will be stopped immediately.

If finds any abnormal condition during running, the mixer shall be stopped immediately, and then to conduct inspection.

- i- After making sure that the mixer has been stopped, the cover of mixer then can be opened to take out the mixing cup, and use the mixing shaver to take out the mould material. (Fig.9)

### 2. Setting for Mixing Time:

a- The timer has following 3 memories program established by the manufacturer (the contents of memory can be altered)

Memory	Mixing Time (sec.)
<b>1</b>	<b>8</b>
<b>2</b>	<b>10</b>
<b>3</b>	<b>12</b>

b- Press down the button of MEMORY SELECT to select the time required for mixing.

c- If intends to alter the memory mixing time established by the manufacturer, you can use adjustment by pressing both the switches UP or DOWN in the same time, then key in the required mixing time. The maximum time is 16 seconds as per 1 second to proceed the required adjustment. When the running is completed, the mixing time will resume to its original time of setting. In addition, you also can alter the time in the memory. Under this circumstance, you can press down UP and DOWN switch at the same time. The mixer will sound 2 electronic “Bi” the mixing time display panel also will be flashed twice. In order to memory the time of alteration, the power shall be switched off and then switch on the power to confirm the memory is made.

### 3. The mixing time shall be set as per the listed instruction of standard.

a- The time setting for power of 50Hz (the water temperature is between 10°C~20°C is listed as below;

Cups	Mixing Time (sec)
<b>1</b>	7~10
<b>2</b>	8~11
<b>3</b>	9~12

- b- The time setting for power of 60Hz (the water temperature is between 10°C~20°C) is listed as below;

Cups	Mixing Time (sec)
1	6~9
2	7~10
3	8~11

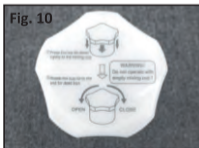
### Important

The mixing time shall adopt average time. If there is any difference between water temperature and room temperature established by the supplier of alginate impression powder, then the setting time will be different. And therefore, please set on the proper time.

### Maintenance:

#### 1.Mixing Bowl:

After setting, the remains impression material inside the mixing bowl can be cleaned and removed easily. The small hole at the center of cap shall be cleaned very often (Fig.10)



### Important

1. The small hole at the center of cap shall be cleaned very often, If jam, then the cover will be very hard to open or close
2. The water remained after cleaning shall be removed completely. Otherwis it will cause error calculation

Fig. 11



2. If there is any dirt on the mixer, please use cloth to swipe. If it is serious, then please use the neutral cleaning agent. (Fig.11)

**Note**

Never use the solvent or volatile oil to swipe for cleaning, that will cause surface faded.

**Important**

If finds any malfunction, if that has adopted the following method and is still unable to resolve, please contact the dealer and send the repair.

**Specifications:**

Dimensions	: 240 (w) x 280 (d) x 300 (h) mm
Weight	: 15,5 kg
Voltage	: AC220V oder AC100V (50/60 Hz)
Consumed Power	: Maximum 400 W.
Timer	: 1-16 sec. adjustable by second
Memory	: 3 (installed setting, 8, 10, 12 sec.)
Revolution	: 3600 r.p.m (60Hz) 3000 r.p.m (50Hz)

Problem	Cause	Method
No power	Bad connection of power plug and co-axial cable	Inspect the connection of power cable plug and co-axial cable
	Burn out of fuse	Inspect the fuse and change if needs. If burn out again, please send for repair
The indicator of digital running is slow	Defect of PC board	Send for repair
The initial running is slow	Decay of driving motor or belt	Send for repair
Abnormal noise or vibration in running	Too much of mixing amount	Send for repair
	Start but nothing inside the mixing-bowl	Send for repair
	Damage of belt	Check if the top cover is tightly closed
	Alginate powder splashes caused by loosening of mixing-bowl cap	Send for repair
Motor can not start or alginate mixing unequal	Driving Motor / Triangular belt or Round belt is damaged	Send for repair
	The sensor lock in the top cover is malfunction	Check if the top cover is tightly closed
"E1" appear on the mixing time indicator	The sensor lock in the top cover is malfunction	Close the top cover again