

Hanwa Kakouki Co.Ltd
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An instruction manual
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**HANWA**

Hanwa Electric Mixer  
Portable Series



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## Attention in the security in the handling of the mixer

I have you read attention in this security before use by all means, and please use it definitely.

I divide it into "danger" and "attention" by the attention in this security. Please protect it by all means both because it is important contents about the security.

**⚠ Danger** : When I take the wrong handling, and the dangerous situation happens, and the death or possibility to take a serious wound is assumed.

**Z Attention** : When possibility to take a moderate injury and slight wound is assumed and when I take the wrong handling, and the dangerous situation happens, and outbreak only for the material damage is assumed.

### ⚠ Danger

- ✓ People with the technical knowledge please carry out the work such as installation, wiring, driving, maintenance, the check. An electric shock and a fire occur and work abnormally and are hurt.
- ✓ Please cut power switch on the occasion of check, repair by all means. A Mixer starts suddenly and is hurt.
- ✓ I come close or please never come in contact with a body of rotation during driving. It is rolled up and is hurt.
- ✓ Please never do that I enter the lower part of the product when I lifted it for transportation. The accident resulting in injury or death by the fall is possible.
- ✓ When I was cut off, please cut power switch by all means. While I do not know it, electric equipment comes, and there might be an electric shock, an injury, the device damage.

### Z Attention

- ✓ Please confirm whether the item on display is a thing according to the order. When I installed a wrong product, there might be an injury, the device damage.
- ✓ Please do not install a finger and an article in the opening of the mixer. There might be an injury, the damage.
- ✓ Because the remodeling of the product by the customer is our guarantee range outside, I do not bear the responsibility.
- ✓ Please do not do the overload driving. Motors run hot when I run in more than rating price and produce a motor damage by a fire and cause the fire.
- ✓ Do not get on an axis and a propeller; please do not hang. There might be the injury.
- ✓ When abnormality occurred, please stop driving promptly. There might be an electric shock, an injury, the fire.

This time I had you purchase a mixer of Hanwa, and thank you. We produce it with extreme caution to be able to use a stirrer effectively safely in us, but ask before using this product in what I can cause the accident that I do not think to take the wrong the handling I read this instruction manual carefully by all means, and to do the right handling. In addition, please keep this instruction manual carefully.

### 1. The arrival of the item on display (Check at the time of the receipt of goods)

If a mixer reaches the hand, at first you arrive about the following, and please confirm it.

- Please confirm whether the model of the order, a standard, dimensions, and the number are right.

**ZAttention** When I installed a wrong product, as for the injury, the device, there might be the loss.

- Please confirm whether the main body, a churning axis, a churning wing do not have damage for the transport middle. Please check whether each department bolt, the nut of the mixer does not loosen.
- When it was ordered a spare, an attached part, please confirm whether you gather entirely. Please inform us or a sales agent promptly by any chance if there are abnormality and deficiency.

### 2. Safekeeping

When it is not used a mixer immediately, please keep it in the following point with care.

- Please do not keep it in the place with the outdoors and moisture, dust, an intense temperature change, the corrosive gas. Please keep it in the dry place at an indoor clean place.
- Give me it as less than 1 year for the safekeeping period. Please inquire separately for a long term when safekeeping is necessary.

### 3. Transport

**⚠Danger**

When I lifted it for transportation, please never do that you enter the lower part of the product. There might be the accident resulting in injury or death by the fall.

**ZAttention**

You drop at the time of the transportation, and please be careful enough when you fall down because it is danger. When you hang it, and metal fittings stick to the main body of mixer, please use it by all means.

#### **4. Installation**

**(1) The installation of the mixer body section**

Or an upper edge of the churning tank installs only the main body without installing it in the main body, and put it together, and a churning axis and the churning wing insert a vise in a bracket, and possess it, and you use the spanner of accessories, and please fix a bolt.

**(2) The installation of the churning wing**

You insert a churning wing in the churning axis, and you completely tighten the set bolt which can possess a churning wing to the hollow of the churning axis, and please fix it.

**(3) The installation of the churning axis**

You completely fix it with the set bolt which you insert a churning axis in the main shaft of the main body of stirrer if I install a churning wing in the churning axis, and possess a main shaft in total in the hollow of the churning axis.

**(4) A churning axis and the adjustment of the direction of the churning wing**

Please relax some adjust bolt installing the main body of stirrer and a vise. You let the main body slide with the point as the branch, and please decide the position of the stirrer at the reasonable position.

#### **5. An electric wiring**

The electric wiring of the motor please does the line which is constipated to turn to the direction of the plate of an arrow installed in the main body of the mixer.

In the case of wiring, the infection from a power supply please use a cord for waterproofing in safe captyre cables of ampere capacity more than a rule by all means after confirming the rating electric current of the motor.

You are right, and power supply facilities and the wiring work of the motor, the ground please execute the work according to electric facilities technology standard and extension official regulations.

Because incomplete wiring works by the unqualified person, the ground are dangerous to not only the offence but also an emergency, please never perform it.

The setting of a ground-fault interrupter and the overload protector is obliged the use to for an electric shock and prevention of fire accident by a law.

## 6. Driving

### 6-1) Attention before the driving

- (1) A tank and a footstool are fixed surely, and please confirm whether you are stable. When a tank is unstable, and a footstool is not firm, it causes resonance, and a churning axis bends, and please warns him in what may cause serious trouble.
- (2) Please confirm whether a stirrer installation bolt is tightened surely.
- (3) Please take off the fan cover of the motor to perform a check by the preparations. You turn a rotor blade by preparations, and please confirm whether the churning axle does not shake whether it turns normally whether there is not a thing to buffer again in the tank inside.
- (4) Please confirm whether the wiring of the electric system is certainly performed.
- (5) Please switch it on, and please confirm whether the rotators direction of the churning axis is a thing as scheduled. Except a model of the skidding possibility, please make liquid in the tank the forthcoming surface by all means then to the top of the churning wing.

### 6-2) The attention that is running

- (1) While it runs, about the model of the skidding strict prohibition, it is a union card of the prevention of trouble that liquid soaks itself in a stirrer by all means. We ask by severe attention in what unbalanced load works and the rolling of the churning axis grows big and turns to the churning axis when I continue skidding for a long time, and cause the maximum of the trouble.
- (2) It runs for around 2 minutes, and please confirms the rolling of the churning axis and the vibration of the main body and allophone after usually accumulating liquid to a liquid level at the time of the use in a tank. Please start working order without abnormality, and please confirm ability for churning. While it runs, please never touch the mixer because it is danger. When you need the check, please check it after it cuts power switch by all means, and having confirmed a stop.
- (3) Viscosities of the liquid becomes it than terms of the contract, and please warn him in there being a case to become overload driving when liquid density is different.

- (4) When a big solid body and alien substance got mixed with a tank during driving by mistake, you cancel driving promptly and remove a contaminant, and please confirm it on a churning axis and a churning wing whether there is not abnormality. Please run without abnormality again. Please warn him in a churning axle shakes when I neglect this and turns, and causing the trouble.
- (5) You can use the mixer in specifications condition at the time of the contract. Please never perform the remodeling such as a churning axis or the shape of the churning wing with a visitor. Please talk with us by all means if remodeling is necessary. When it is remodeled the mixer, and an accident occurred, a visitor please understand us without consultation because I cannot take responsibility.

## 7. Maintenance

### 7-1) Daily life check

Everyday check is indispensable you maintain the driving of the stirrer normally, and to continue. Because there is a threat that you do not cause the trouble and am connected for a big accident when you neglect the check that you mentioned as follows, please check it by all means.

Please check it after it cuts a main switch in the case of the check by all means, and having confirmed a stop. Because there is the case that a stirrer starts by automatic driving suddenly, you are dangerous.

A check item	Confirmation and check contents
1.Grasp of the load	Is there the current ground within the current rating value of motor tablet mention?
2.The noise	Does not a peculiar noise occur to a bearing, a gear, a motor, slowdown machine? Is not there a sudden change?
3.Vibration	Does not abnormal vibration occur in main body of mixer others? Is not there a sudden change?
4.Each department surface temperature	Are not bearing, gear case, motor, slowdown machine, and other each parts list side temperature abnormally high? Does not it suddenly rise?
5.The slack of each department installation bolt	Does not each department installation volt of the mixer relax?
6. The leak of the lubricating oil	Does not an omission of oil produce grease from a bearing part, slowdown machine again?

The case that some kind of abnormality was recognized by check every day obeys cause and measures "of the" trouble, and please deal.

7-2) lubricating oil of the slowdown machine

About the recommended lubricating oil of drive parts such as slowdown machines, please refer to "instruction manual" of the attached sheet maker. Because we use oil less system, as for the bearing of the main body of mixer, the supplying of the grease is unnecessary.

7-3) Expendable supplies

The exchange of the consumption part is necessary I maintain the driving of the mixer normally, and to continue. When it was a state and the recommendation exchange next term specified on the following lists, please change each part.

Expendable supplies	An aim at the time of the exchange	The recommendation exchange next term
Bearing	At the time of heterology and an omission of grease or overhaul	As for every two years
An oil seal	At the time of overhaul	As for every two years

8. A cause and measures of the trouble

It is listed about the general trouble contents of the normal model about the item of the top of the next. About the other troubles, please contact us.

Trouble contents	A cause	Measures
<ul style="list-style-type: none"> <li>A motor does not drive it</li> </ul>	<ul style="list-style-type: none"> <li>It does not keep a start condition for control</li> <li>A motor is out of order</li> <li>There is abnormality for power supply relations</li> <li>Motor, slowdown machine, a part of sliding surface of the main body were branded</li> <li>An alien substance gets caught in a part of sliding surface and is crowded.</li> </ul>	<ul style="list-style-type: none"> <li>Check each condition</li> <li>Repair a motor or change it</li> <li>Check it and repair it</li> <li>Repair it or change it</li> <li>Remove an alien substance</li> </ul>
<ul style="list-style-type: none"> <li>Churning is too strong</li> </ul>	<ul style="list-style-type: none"> <li>A condition of the liquid is different from specifications condition at the time of the contract</li> </ul>	<ul style="list-style-type: none"> <li>Perform it in specifications condition street</li> </ul>
<ul style="list-style-type: none"> <li>Churning performance isn't good</li> </ul>	<ul style="list-style-type: none"> <li>A churning wing is missing</li> <li>The rotators direction of the churning axis is reverse</li> <li>There is too much churning capacity</li> <li>A condition of the liquid is different</li> </ul>	<ul style="list-style-type: none"> <li>Install a churning wing and completely tighten a set bolt</li> <li>Get over in right rotators direction</li> </ul>

	<p>from specifications condition at the time of the contract</p>	<ul style="list-style-type: none"> <li>• Reduce quantity of training to a condition at the time of the contract</li> <li>• Perform it in specifications condition street</li> <li>• Perform it in specifications condition street</li> </ul>
<ul style="list-style-type: none"> <li>• A churning axle shakes</li> </ul>	<ul style="list-style-type: none"> <li>• Used a churning axis with I took the damage for the transport middle, and having turned</li> <li>• Raced, and a churning axis bent</li> <li>• When you did installation of a churning wing, a set bolt is not set at the set hole of the churning axis definitely</li> <li>• Spent a big solid body</li> <li>• A main shaft and the set volt of the churning axis relax</li> </ul>	<ul style="list-style-type: none"> <li>• Change whether you correct it that you are new</li> <li>• Change whether you correct it that you are new</li> <li>• Coordinate the height of the surface not to race</li> <li>• Reset it definitely in the churning axis set hole</li> <li>• Change it according to the specifications condition and run</li> <li>• Tighten it and completely fix it</li> </ul>
<ul style="list-style-type: none"> <li>• Vibration occurs</li> </ul>	<ul style="list-style-type: none"> <li>• A churning axle shakes</li> <li>• A mixer installation footstool is weak</li> <li>• Churning is too strong</li> <li>• A clamping fixation volt relaxes</li> <li>• Bearing is damaged</li> </ul>	<ul style="list-style-type: none"> <li>• The said article</li> <li>• Reinforce a footstool</li> <li>• The said article</li> <li>• Tighten a bolt, a nut again</li> <li>• Trade with a new thing</li> </ul>
<ul style="list-style-type: none"> <li>• Make a sound abnormally</li> </ul>	<ul style="list-style-type: none"> <li>• The oscillation of the churning axis and the vibration of the dasher</li> <li>• Bearing is damaged</li> <li>• A clamping fixation volt relaxes</li> </ul>	<ul style="list-style-type: none"> <li>• The said article</li> <li>• The said article</li> <li>• The said article</li> </ul>



© **About repair**

Trouble occurs for some kind of causes and a person with the machine repair experience please go when it is overhauled. I wash parts in oil in the case of repair well, and please warn him to never mix alien substances such as the garbage.

When you easily repair it and cannot deal or I buy us, and please report to a sales agent. Please inform it of the following matter by all means on this occasion.

1. Product number of the nameplate, model, plane turn, production time, output kw
2. If a part name seeming to be need is done; the reference character of a drawing for approval
3. Contents of the trouble and the situation in the details

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