

## EPM-30S Operation Instruction

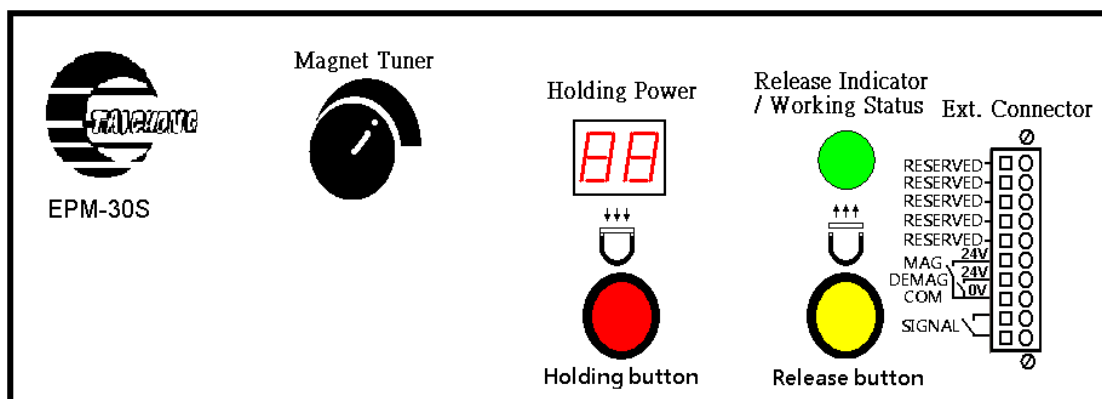
### Introduction

EPM-30S is specific design for electronic permanent magnetic chucks. It is able to promptly reverse poles to result in Magnetization or Demagnetization on the chuck. For the sake of your safety, please read the operating instruction and safety advice prior to installing and starting up the appliance.

### Safety advice

1. The appliance must be installed by authorized specialists.
2. In installing or replacing, the main power must be turned off.
3. Electrical device should keep out of water.
4. Do not place the product in a separate enclosure unless proper ventilation is provided.
5. Please reserve an adequate space, avoid touching switches unintended.
6. Any modifications are not permitted.
7. Avoid switching magnetizing or demagnetizing rapidly, it will cause temperature floating of the controller and EPM chucks.
8. External 30A Fuse or Circuit Breaker is needed.
9. Earthed conductor is not allowed to neglect.
10. For your safety, please make sure that work piece is certainly held on the chuck.
11. EPM chuck is a strong magnetic product, please keep away from pacemaker, watch or any effect of permeability.
12. During machining, switches should be careful.

### Front



### Operation:

#### Holding

1. Press Red button about 0.5sec, Green lamp goes blinking.
2. When magnetizing procedure finishes, green lamp stops blinking and goes off.
3. When holding power is not strong enough, adjust the tuner and repeat the step1~2.

4. In case holding power is excessive, lowering the display value and press the yellow button about 0.5 sec. Then repeat previous step1~2.

Note1. The larger the display value shows, the stronger the holding power is.

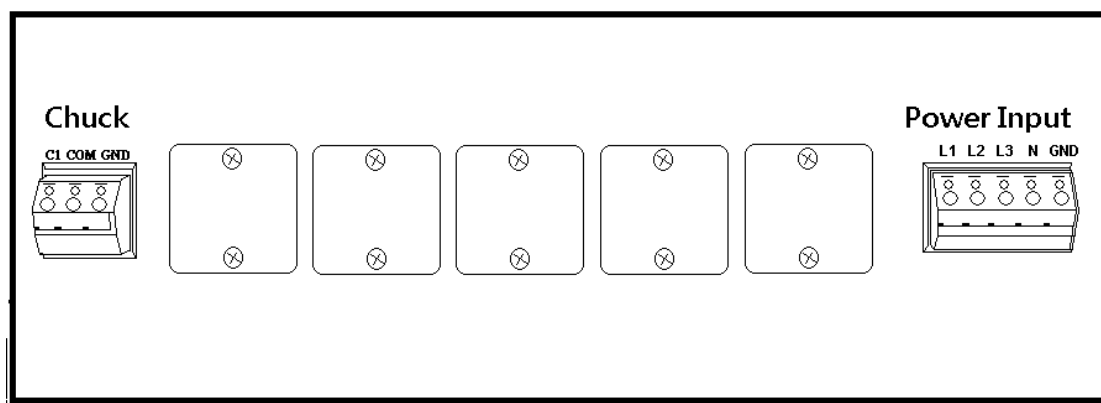
Note2. Holding power does not vary depend on tuner until pressing buttons.

Note3. EPM-30S is able to save latest status. Even power is interrupted in the magnetizing or demagnetizing procedure. When the power is back, it will finish undone procedure.

### **Release**

1. Press yellow button about 0.5sec, green lamp goes blinking.
2. When demagnetizing procedure finishes, green lamp stops blinking and keeps on.

### **Wiring Explanation**



Back cover connector:

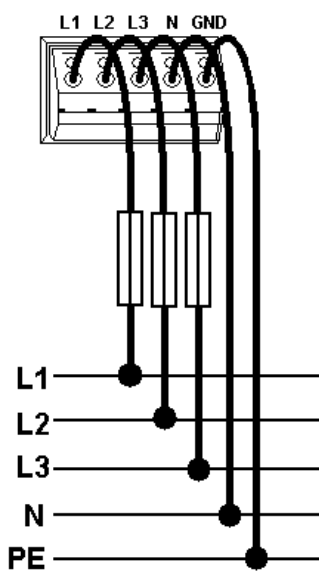
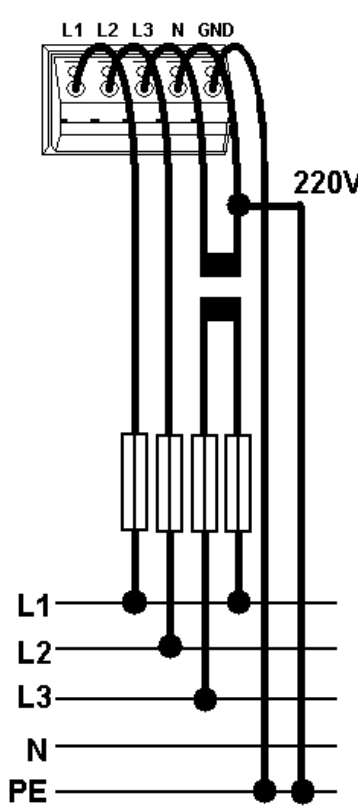
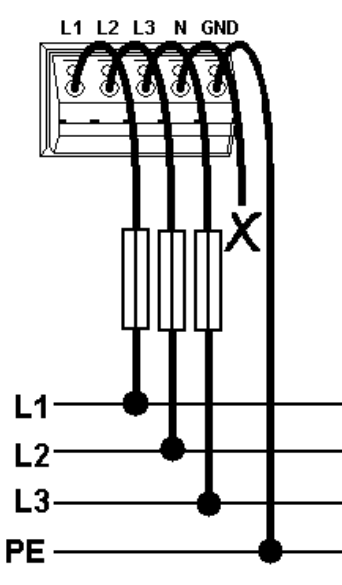
1. Power Input: 220Vac 30A 3ø4w or 380Vac 30A 3ø5w. Please state clearly when order.
2. Wire of AWG12 or 4mm<sup>2</sup> is recommended for current capacity of 30 A.
3. Frequency is detected automatically and shown when the power is on.
4. External 30A Fuse or Circuit Breaker is needed.

※N phase of 380Vac cannot be neglected. And please make sure the voltage is stable.

Front cover connector:

1. Usage of wire below AWG14 or 2.5mm<sup>2</sup> and no more than 1A.
  2. External DC 24V power supply is necessary to control Magnetizing (Holding) and Demagnetizing (Release).
- ※ Dimension: 300mm(W) x 110mm(H) x 330mm(L)

**Wiring diagram for power input:**

<p><b>1. 380V 3 <math>\phi</math> 5W :</b></p>  <p>Input: 380V ◦          Fuse: 30A or 32A ◦          N phase cannot be neglected.</p>	<p><b>2. 380V 3 <math>\phi</math> 4W :</b></p>  <p>Input: 380V ◦          Instead of N phase, isolating transformer serves 220V for L3 and N.          Fuse:          L1, L2: 30A or 32A ◦          L3, N: 1A</p>	<p><b>3. 220V 3 <math>\phi</math> 4W :</b></p>  <p>Input: 220V          Fuse: 30A or 32A ◦          N phase is omitted.</p>
---	---	---

**Wiring diagram for chuck:**

