



Xiamen Dexing Magnet Tech. Co., Ltd.

厦门盈德兴磁电科技有限公司

User Manual for DXMM-20C20 Impulse Magnetizer

1) Overview

DXMM magnetizer adopt high technical and have advantages as below: Strong Magnetism ability, lower power consuming, could match with different fill head, low effect to the electricity grid, fast magnetism, no easy broken part, automatic protection, reliable and durable, magnetism intensity and voltage is adjustable, could be widely used for acoustic instrument speakers, motor, axletree and machine. It could magnetize the permanent magnetic materials and components, such as Sm-Co-Pr. , Nd-Fe-B, Sr-Ba constant magnet, plastic magnet, magnetic tape & Al-Ni-Co etc. .This machine has got high production efficiency and could be widely used for production line.

2) Major technical SPEC.

- ① Power Input: AC 220V \pm 5% 50HZ
- ② Maximum Output Current(A): about 10000A
- ③ Maximum Output Power(J):6250J
- ④ Quickest Work Cycle:2-8S
- ⑤ Capacitor Capacity: 2000UF
- ⑥ Operation Voltage(Maximum):DC0-2500V \pm 1% (continue adjustable and stable)
- ⑦ Environment Temperature: -5- +42 °C
- ⑧ Height: \leq 4000 meters
- ⑨ Relative humidity: \leq 95%
- ⑩ Volume: L850*W550*H1050MM
- 11 Approximate Weight (KG): 200KG



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3) Attention: while installation

For a long life and good performance, please don't install machine in the following place

1. High temperature or high humidity location
2. Bad wind flow location
3. Lots of dust and unstable location
4. Near corrosion or acid location
5. Un-flat location
6. Electric power system bad grounding or electric power variation over 10%

4) Installation preparation before usage and Operation

Installation Procedure

▲ When open any cover board of the machine, please turn off the machine and wait for 5 minutes to discharge (below 36V) and then shut off power supply!



1. This machine's main circuit is single phase 220V, it is better to use 6-10 square mm copper to connect to the main power line via 63-100A switch. And there should be zero curve and qualified ground line, and the ground line directly connect to the machine housing and Magnetizing coil.
2. Please make sure there's no loss or damage for the part before installation.
3. Please define wire phase, can't be wrong connection and request stable connection, There have total 3 electric wire (U)fire wire, (N)neutral wire (⌚)grounding Connect to the power: Please pay attention and tell correctly for the phase line and ground line, they could not be connected wrongly and must be connected firmly. Otherwise, will lead to damage of the equipment and threaten the safety of the personnel. When change circuit, must turn off the machine and discharge (reach 0V). Power on operate and contact parts with electricity is strictly prohibited.

Operation and adjustment

1. Insert the Kicking Switch into proper power switch.
 2. Connect electric power line, turn power switch (on the left down place) to on, indicator will light, input voltage meter indicate (220V) means normal, magnetizer voltage will indicate (0V) means normal.
 3. Push the start switch, turn vol. adjust knob, adjust the voltage to the necessary magnetize voltage (DC 0V-2500V), after check the fan was turning normally, then can start to magnetize, the fan has a life limitation, if it has damage, please replace it in time.
 4. Put the object that will need fill magnetism into Magnetizing coil (try to put it in the middle of the Magnetizing coil), then touch the Kicking switch, the object will vibrate and could finish magnetism.
 5. If there has any un-normal condition, push stop switch, and turn power switch off.
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5) Maintenance and Precaution

1. This machine is high voltage, the environment should be dust proof, moisture proof and keep good ventilation. The operator should keep to the ground and with good insulation. If there's electric conduction dust come into the machine will lead to high voltage discharge of the cabinet and cause huge explosion sound. It should be removed in time.
2. Should clearly remember the general usage knowledge of the electric machine.
3. For the intensity setting should reference to the actual production. If set too high then will consume a lot electricity and Magnetizing coil will have big load, then will affect life time of Magnetizing coil
4. Please check if the Magnetizing coil and power is connected well or not before turn on the machine. Magnetizing coil heat output fan or water pump is power on or not? Please check the fan or water pump is running properly or not? If the Magnetizing coil wire and power line is loose will lead to feeler getting hot and strike fire and burn the post head. If the fan or water pump do not work, the Magnetizing coil or machine will becoming hot. These all belong to improper usage, please check and repair in time.
5. Ground line must ground the earth safely, could not directly connect to the water tube or gas tube.
6. Please do not put the machine around the computer, air conditioner, heater or other electric equipment. Do not allow to put anything on the machine.
7. For the ventilation area within 50mm could not put any objects. And could not put any flammability, explosive or causticity gas.
8. For the lead of the machine could not be put in the aisle.
9. During shipment, the machine could not be placed upside down or horizontally, if need to incline, the angle could not exceed 45.
10. In order to avoid electric shock, please do not open the cover of the machine. If need to repair, please ask for qualified professional repairer or contact our company to send professional staff to repair. Our company will not be responsible for the electric shock accident if it is cause by improper repair or usage, or dismounting the machine without getting permission of our company.
11. During warranty, the user could not open the machine without getting permission from the supplier, and the warranty service will be only valid under normal usage. Please use the machine according to the manual, for damage caused by improper usage or the part exceed warranty period will not enjoy warranty. For those external parts like Kicking switch, Magnetizing coil, indication light, fan, voltage meter and others, if it is broken due to usage wear and tear or their own life limit will not enjoy warranty, please repair and change in time.



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6) Fault Inspection & Troubleshooting

Fault Content	Fault Causes	Action to be taken (Peripheral connect parts and easy-broken parts do not enjoy warranty, please repair it by yourselves.)
<ul style="list-style-type: none">● There's high voltage, but do not fill magnetism.● Foot switch is no function.	<ol style="list-style-type: none">1. Kicking switch is in open circuit or short circuit.2. Magnetize coil open circuit3. Voltage fine adjusts potential meter	<ol style="list-style-type: none">1. Check foot switch and circuit2. Connect magnetize coil wire3. Adjust the magnetization voltage adjustment knob back once
<ul style="list-style-type: none">● The power switch jumps off when the speed of filling magnetism is too fast.● The power switch jump during filling magnetism.	<ol style="list-style-type: none">1. Power switch capacity is not enough.2. Electric leakage from magnetize coil3. Damage and leakage of the magnetizer	<ol style="list-style-type: none">1. Change power switch2. Check magnetizes coil wire and grounding3. Replace magnetize coil
<ul style="list-style-type: none">● There's no high voltage when turn on the machine.● There's no indication when filling magnetism.	<ol style="list-style-type: none">1. Kicking Switch is in short circuit.2. The resistor is in open circuit.3. There's fault with the main unit.4. High voltage meter is broken.	<ol style="list-style-type: none">1. Replace kicking switch2. Making inspection, repair or replace it.3. Contact with our company4. Change high voltage meter.

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<ul style="list-style-type: none"> There's exploding sound inside the machine when turn on it. 	<ol style="list-style-type: none"> There's dust come into the machine lead to high voltage and strike the cabinet due to too much dust around. 	<ol style="list-style-type: none"> Keep clean and make dust proof, clean the dust inside the machine.
<ul style="list-style-type: none"> When magnetizing, the casing of the charging machine has induced electricity 	<ol style="list-style-type: none"> Ground line is not connected correctly. 	<ol style="list-style-type: none"> To connect the ground line correctly.
<ul style="list-style-type: none"> Automatic Filling Magnetism 	<ol style="list-style-type: none"> There's something wrong with the main board. Kicking switch is not well. 	<ol style="list-style-type: none"> Inspect and correct it. Inspect it or change it. Contact our company when necessary.
<ul style="list-style-type: none"> Automatic Shut Down 	<ol style="list-style-type: none"> Electricity Grid supplied voltage is too high. Ventilation of the machine is not well. Power on button is in poor contact. 	<ol style="list-style-type: none"> Belong to normal shut down Contact with the Power Supplied Department Replace switch button.
<ul style="list-style-type: none"> Voltage could not increase. 	<ol style="list-style-type: none"> Kicking switch is broken. The rectifier diode is damaged Capacitor broken Voltage increase machine is broken. 	<ol style="list-style-type: none"> Change switch Replace damaged diodes Contact with our company-DEXINMAG