Insulation Pad Withstand Voltage Test Bench

User Manual

Huazheng Electric Manufacturing (Baoding) Co., Ltd
Dear user:

Thank you for choosing HZAQ Insulation Pad Withstand Voltage Test Bench.

We hope that this instrument can make your work easier and more enjoyable, so that you can get the feeling of office automation in the test and analysis work.

Before using the instrument, please read this manual, and operate and maintain the instrument according to the manual to prolong its service life. "Just a light press, the test will be completed automatically" is the operating characteristics of this instrument.

If you are satisfied with this instrument, please tell your colleagues; if you are not satisfied with this instrument, please call (0312) 6775656 to tell you to serve you at all times-Baoding Huazheng Electric Manufacturing Co., Ltd., our company will definitely make you satisfied!
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I. Main Technical index

Rated voltage: 50kV

Test bench area: 1100*1000 (mm)

Electrode area: 600*600 (mm)

II. Installation instructions (see picture)

1) Open the packing box, and the contents are as follows;

Left leg frame 1  Right leg frame 1  Connector 3

Insulating pad electrode 1

Work surface 1  Insulating column 1
2) Place the left and right leg frames in parallel, so that the wheels with brakes are on the same side (see the schematic diagram after installation);

3) Install the 3 connectors at the corresponding positions of the left and right leg frames, and tighten the fixing bolts (see the upper right picture).

4) Install the work surface: Place the work surface in the position shown in Figure 4, and fix the work surface with the wood screws provided.

5) Insert the insulating column into the slot on one side of the work surface, and place the high voltage electrode on the work surface.

**III. Schematic diagram after installation**

1—High voltage input terminal: used to connect the test variable high voltage output

2—High voltage electrode: stainless steel material, with good conductivity

3—Working surface: stainless steel material, easy to place insulating pad, and reliable grounding

4—casters: used for overall movement

**IV. Method of operation**

1. Preparation before the test

1) Connect the grounding terminal of the test bench to the grounding point with a dedicated grounding wire, and ensure that the connection is reliable.

2) Insulation blanket/pad test arrangement

![Schematic diagram of insulation blanket/pad test](image)

Figure 5  Schematic diagram of insulation blanket/pad test
2. Insulation blanket withstand voltage test

1) Place the insulation blanket/pad under test in the center of the test platform according to Figure 5.
2) Reliably connect the high-voltage wire and the high-voltage electrode.
3) Apply high pressure to carry out withstand voltage test according to the test requirements.
4) After the test is completed, remove the high-voltage line after discharging, remove the high-voltage electrode and the tested product.

3. Withstand voltage test of shielding cover

1) Place the outer electrode of the shielding cover in the middle of the worktable.
2) Place the inner electrode of the shielding cover in the tested shielding cover, so that the edge of the shielding cover is 100mm away from the edge of the metal part of the inner electrode (see figure).
3) Reliably connect high-voltage wires and high-voltage electrodes.
4) Apply high voltage according to the test requirements to carry out the withstand voltage test.
5) After the test, discharge the high voltage part.
6) Remove the high-voltage wire of the high-voltage electrode, and remove the tested product.
V. Packing list

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<th>No.</th>
<th>Item</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1</td>
<td>Stainless steel worktable</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Left and right outrigger frame</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Connection beam bracket</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Insulating pad high voltage electrode rod</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Universal ground wire</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Self-tapping screws (connect the desktop and the legs)</td>
<td>8</td>
</tr>
<tr>
<td>7</td>
<td>High voltage input wire</td>
<td>1</td>
</tr>
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