

HST-EP3000W Electrolytic Polishing and Etching Instrument with Computer



Picture Just for reference

Application:

HST-EP3000W Electrolytic Polishing and Corrosion Instrument is a metallographic sample preparation instrument integrating electrolytic polishing and corrosion functions. It is suitable for use in laboratories such as factories, colleges and universities, and scientific research institutions.

The equipment uses electrochemical principles to prepare metallographic samples, and can also be used for polishing metallographic samples, and can also be used for corrosion of metallographic samples. It has the advantages of fast sample preparation, good repeatability, and no mechanically processed deformation layer. It is an ideal equipment for preparing metallographic samples of non-ferrous metal samples, steel, especially stainless steel.

Main feature

1. The touch screen sets parameters, displays voltage-time, current-time curves, and temperature-time curves, and U disk exports experimental data.
2. Current and voltage scanning, automatic measurement of polarization curve: used to confirm the specific voltage and current of electrolysis or polishing. After the curve is generated, it is used to obtain the optimal parameters (option) for corrosion and polishing of the material.
3. Realize constant current and constant voltage working modes;
4. DC 0~60V / 0~20A (or 0~100V / 0~12A); current/voltage values can be customized;
5. Accurate and stable setting of current value, current adjustment, accuracy to three decimal places, current accuracy: 0.001A;
6. Accurate and stable voltage setting, voltage adjustment, accuracy to two decimal places, voltage accuracy: 0.01V
7. The working voltage and current can be input into the computer to facilitate further data analysis and research (options: RS232, RS485, wireless connection, one of the three connection methods to connect to the computer).
8. Power supply overvoltage, overheating and mains input overvoltage and undervoltage protection;
9. The polishing/etching area of the sample can be controlled (sample cover opening diameter 10mm, 15mm, 20mm);
10. Set and control polishing/etching work times;
11. Real-time digital display of solution temperature, automatic alarm when the set temperature is exceeded (optional); automatic opening of cooling device (optional);
12. The stirring device ensures uniform polishing/etching media and consistent sample surface environment.

Main technical parameters

Operating Voltage	AC220V 50Hz
Electrolysis output	DC 0~60V / 0~20A, continuously adjustable, digital display
Voltage and current regulation, display accuracy	Voltage 0.01V/current 0.001A
time display	Working hours can be set by yourself
Electrolyte capacity	300~1000ml
cooling system	External tap water cooling
Electric box size	215×507×460mm

Corrosion Workbench	270×230×340mm
Total Instruments:	10Kg

Standard configuration

Product name	unit	Quantity
Electropolishing and Corrosion Instruments	Set	1
Power control box	Set	1
Cover plate to control sample corrosion area (10/15/20mm)	pieces	3,One for each

Optional configuration

1.IV-C polarization curve test software

Includes computer, software USB flash drive

2. Reduce the solution volume using a block

Used to reduce the required polishing etching solution, the volume can be reduced by half

3. Solution temperature automatic cooling device automatically alarms

Automatic cooling, automatic alarm

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