



## ELECTRO-P

## Features

- > Electrolytic polishing and etching machine for metallographic sample preparation
- > Teflon electrolytic chamber
- > Equipped with voltage control display and digital timer
- > Recommended for scientific research institutes, metallographic laboratories and universities.



Model	ELECTRO-P
Output voltage	0+60V/0÷25A, adjustable (1V steps)
Chamber capacity	300÷1000ml
Noise level	<60dB
Operating temperature	0÷30°C
Humidity non-condensing	<65%
Power supply	230V ±10% - 50/60Hz - 1Ph
Control box dimensions	450x420x230mm
Electrolytic chamber dimensions	270x230x320mm
Weight	10kg

## Standard accessories

Sample mask with hole 3pcs (ø 10, ø 15, ø 20mm)

## Optional accessories

20ELEC05

Sample mask with hole selected from ø 10mm to ø 40mm

## Appendix

Ingredients and recommended parameters for electrolyting and etching sample preparations

NO.	Composition	Parameter	Suitable Materials
1	30mlHCl+10mlHNO <sub>3</sub> +50ml glycerin	6-8V	Showing the general composition of heat-resistant alloy
2	5-20% H <sub>3</sub> PO <sub>4</sub> aqueous solution	8V	Showing the general composition of heat-resistant alloy
3	40%NH <sub>4</sub> OH aqueous solution	4-8V	Heat-resistant steel, showing carbide and borate
4	10% aqueous solution of oxalic acid	3-6V	Showing the general composition of heat-resistant alloy
5	3gFeSO <sub>4</sub> +0.1gFe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> +100ml distilled water	0.1-0.2A/cm <sup>2</sup>	Showing the composition of medium-carbon steel, low alloy, structural steel and high-speed steel
6	10g potassium ferricyanide+90ml distilled water	0.2-0.3 A/cm <sup>2</sup>	Indicating the composition of high-speed steel
7	5% aqueous solution of sulphuric acid	6V 0.1-0.5A/cm <sup>2</sup>	Indicating the composition of iron-chromium-nickel
8	50% aqueous solution of nitric acid	1.5V	Corrosive austenite or ferrite inoxidizable steel crystal
9	700ml ethanol+100ml 2-butoxy+200ml 30% perchloric acid	35-40V 15-20S	Steel, cast iron, aluminium, aluminium alloy, heat-resisting alloy, all polished
10	700ml ethanol+100ml glycerine+200ml 30% perchloric acid	15-50V 15-60S	Inox steel, high-speed steel and aluminium alloy, polished
11	300ml water+700ml 85% phosphoric acid	1.5-1.8V 5-10 minutes	Alloy, inox steel and copper, polished
12	250ml water +750ml sulphuric acid	1.5-6V 1-2 minutes	Inox steel, polished



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