

# Stainless Steel Electrode Clip With Replaceable Tips For Electrochemical Research

Item Number: PL-JM01



## Introduction

High-quality stainless steel electrode clip designed for secure sample holding in electrochemical cells. Features replaceable electrode tips and customizable dimensions for versatile lab use. Ideal for cyclic voltammetry, corrosion studies, and battery testing. Reliable electrical contact, 80mm length, customizable.

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Application	Description	Key Benefit
Cyclic Voltammetry (CV)	Securely attaches the working electrode for potential sweep experiments.	Stable contact ensures smooth current-voltage curves without noise.
Electrochemical Impedance Spectroscopy (EIS)	Holds the electrode stationary during frequency response analysis.	Minimizes impedance artifacts from mechanical movement, providing accurate spectra.
Linear Sweep Voltammetry (LSV)	Used to fix the electrode in place for rapid potential scans.	Fast and repeatable clamping prevents sample slippage.
Corrosion Rate Monitoring	Grips metallic test coupons for Tafel and linear polarization resistance measurements.	Stainless steel construction resists corrosive media, preventing galvanic interference.
Battery Electrode Testing	Holds anode or cathode films for charge/discharge cycling in coin cell or three-electrode setups.	Customizable length allows integration into custom battery holders.
Electroplating Studies	Clamps substrates for deposition of metals or conductive polymers.	Replaceable tips avoid cross-contamination between different plating baths.
Sensor Characterization	Fixes sensor elements during amperometric or potentiometric evaluation.	Repeatable clamping force ensures consistent sensor-to-electrolyte contact.
Educational Laboratories	Simple and robust tool for teaching electrochemical principles.	User-friendly design reduces setup time and enhances student learning.

Specification	Value
Model Number	PL-JM01
Material	Stainless Steel
Electrode Clip Length	80 mm (standard, customizable)
Terminal Length	20 mm
Clamp Gap Width	≤ 5 mm (standard, customizable)
Electrode Tip	User-replaceable, compatible with various metals (customizable)
Operating Temperature Range (with optional PTFE jacket)	-200 °C to +250 °C
Dielectric Strength (with optional PTFE jacket)	>60 MV/m