

# Peek Glassy Carbon Electrode Clamp With Replaceable Tips For Electrochemical Analysis

Item Number: PL-JM05



## Introduction

Glassy carbon electrode clamp with PEEK body and replaceable tips, clamping width up to 2mm. 80mm length, 20mm terminal. Ideal for electrochemical cells, corrosion studies. Custom dimensions available. Request a quote for bulk orders or tailored solutions. Get competitive pricing.

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Application	Description	Key Benefit
Electrochemical Sensor R&D	Holding microelectrodes or modified surfaces in a three-electrode cell for characterizing sensor responses to analytes.	Quick tip swapping accelerates screening of multiple electrode modifications without recalibrating the setup.
Corrosion and Electrochemical Testing	Mounting metal alloy or coated samples for potentiodynamic polarization scans and EIS in aggressive acidic or saline environments.	PEEK body eliminates the risk of galvanic corrosion or contamination from metal components, preserving solution integrity.
Battery Material Evaluation	Clamping electrode films or pellets during cyclic voltammetry and galvanostatic cycling to assess capacity and stability.	Uniform clamping force ensures consistent electrical contact, preventing artifacts in electrochemical data.
Electroplating Process Development	Holding cathode substrates during metal deposition, requiring stable contact in acidic or alkaline plating baths.	Glassy carbon tip resists deposition and can be polished clean, maintaining reproducible surface conditions.
Photoelectrochemistry Studies	Securing semiconductor photoelectrodes in illuminated cells for water splitting or CO2 reduction experiments.	Adjustable design accommodates various substrate thicknesses, and black PEEK minimizes light reflection artifacts.
Academic Laboratory Demonstrations	Teaching fundamentals of voltammetry and electrode kinetics with robust, student-proof equipment.	Durable, easy-to-clean clamp withstands frequent handling and reduces the cost of consumables in education.
Electrocatalysis Research	Immobilizing catalyst-coated electrodes for oxygen evolution or CO2 reduction studies in flow cells.	Stable clamping prevents catalyst delamination, ensuring accurate assessment of turnover frequencies.
Environmental Monitoring	Holding screen-printed electrodes for on-site heavy metal detection in water samples.	Field-deployable thanks to chemical robustness and easy cleaning between samples.

Parameter	Specification
Model Number	PL-JM05
Body Material	PEEK
Electrode Tip Material	Glassy Carbon
Clamp Length	80 mm (standard, custom lengths available)
Terminal Post Length	20 mm
Clamping Width	≤2 mm (supports samples up to 2 mm, can be customized)
Tip Replacement	Tool-free, interchangeable tips
Customization Options	Length, clamping width, terminal post, tip material - contact for details