

Ptfe Electrochemical Electrode Holder For Thickened Samples With Platinum Contact Sheet

Item Number: PL-DJ43



Introduction

This premium PTFE electrochemical electrode holder is engineered for secure clamping of thickened samples. Featuring a high-purity platinum contact sheet and double-bolt fixation, it delivers exceptional chemical resistance and highly stable electrical conductivity in demanding laboratory environments.

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Application	Description	Key Benefit
Corrosion Testing in Acidic Media	Evaluation of thick metal alloy plates or coated substrates in sulfuric or hydrochloric acid solutions.	Complete chemical inertness of the PTFE body prevents galvanic corrosion or contamination of the bath.
Battery & Supercapacitor R&D	Secure mounting of thick electrode plates, polymer membranes, or composite substrates in organic electrolytes.	Stable mechanical grip ensures uniform current distribution and highly reproducible impedance measurements.
Electrodeposition & Electroplating	Holding structural metal or semiconductor plates during electroplating processes with high current densities.	Dual-bolt clamping maintains low contact resistance, ensuring even coating thickness and uniform deposition.
Sensor Development	Integration of custom thick-film or ceramic sensors into electrochemical measurement cells.	Precision alignment and reliable platinum contacts ensure highly sensitive and low-noise electrical signals.
Fuel Cell Catalyst Evaluation	Testing the performance of catalyst-coated gas diffusion layers (GDLs) or thicker membrane electrode assemblies.	Prevents mechanical crushing while ensuring secure electrical connectivity across the active surface area.
Metallographic Testing	Conducting polarization measurements on cut, mounted metallographic cross-sections of varying thicknesses.	Adjustable jaw accommodates irregular, thick samples while providing solid electrical contact to the polished face.

Parameter Group	Technical Specification	Configuration Details (PL-DJ43)
Model Reference	Product Item Number	PL-DJ43
Structural Body & Rod	Standard Material	Polytetrafluoroethylene (PTFE)
	Optional Engineering Plastics	Polyetheretherketone (PEEK)
	Optional Metal Clamps	Stainless Steel, Copper, Titanium (machined from solid block)
Conductive Medium	Standard Contact Plate	Pure Platinum (Pt) Sheet
	Optional Contact Plates	Pure Gold (Au) Sheet, Glassy Carbon (GC) Sheet
Clamping Design	Fixation Type	Double-bolt (dual-screw) adjustment
	Target Sample Thickness	Thickened sheets, plates, and blocks (up to 10 mm standard)
Dimensions & Sizing	Standard Stem Diameter	6.0 mm / 8.0 mm (customizable)
	Standard Stem Length	100 mm / 120 mm (customizable)
Operating Performance	Temperature Range (PTFE Body)	-100°C to +250°C
	Temperature Range (PEEK Body)	-50°C to +300°C
	Chemical Compatibility	Near-universal (resistant to acids, bases, organic solvents)