

# Ptfe Wafer Cleaning Basket 4 Inch Etching Rack Acid Alkali Resistant Custom Mask Carrier

Item Number: PL-CP90



## Introduction

Precision-engineered PTFE etching baskets designed for semiconductor wafer cleaning and chemical processing. These acid-resistant, high-purity cleaning racks ensure zero contamination in demanding laboratory environments. Fully customizable to meet specific industrial mask and wafer dimensions for advanced manufacturing and research applications.

[Learn More](#)

Application	Description	Key Benefit
Semiconductor Wet Etching	Submerging silicon wafers in acidic solutions to remove thin films or clean surfaces.	Total resistance to HF and other aggressive etchants ensures zero material degradation.
Photomask Cleaning	Carrying sensitive quartz masks through specialized chemical wash and rinse cycles.	Low-impact material contact prevents surface damage to intricate mask patterns.
Solar Cell Fabrication	Processing photovoltaic wafers during the texturing and doping cleaning phases.	High throughput capacity and chemical stability improve overall manufacturing efficiency.
MEMS Processing	Handling micro-electromechanical systems through diverse chemical etching environments.	Precision slotting ensures small and fragile components are securely held during agitation.
Trace Metal Analysis	Cleaning labware and containers in high-purity acid baths prior to analytical testing.	Eliminates cross-contamination by providing a metal-free cleaning environment.
Nanotechnology Research	Managing experimental substrates in novel chemical solutions and reactive environments.	Versatility in temperature and chemical compatibility supports varied research protocols.

Feature	Specification Details for PL-CP90
Model Number	PL-CP90
Material Construction	High-Purity PTFE (Polytetrafluoroethylene)
Wafer Size Compatibility	4-inch (Standard) / Fully Customizable Dimensions
Slot Configuration	Customizable number of slots and pitch spacing
Chemical Resistance	Universal resistance to acids, alkalis, and solvents
Operating Temperature Range	-200°C to +260°C
Surface Finish	Precision CNC Machined / Ultra-Low Surface Roughness
Handle Design	Detachable or fixed styles available (Customizable)
Drainage Design	High-flow open-framework geometry
Fabrication Method	End-to-end custom CNC fabrication
Order Type	Customized products based on client specifications