

THE ■PTiPREP™ SYSTEM

The OptiPrep™ System is designed for production polishing of a wide variety of optical components, including:

❖ Ferrules: Ceramic, glass, stainless, plastic

❖ Connectors: MT/MT-RJ, ST, SC/FC (APC)

- ❖ Waveguides
- Silicon V-groove (fiber arrays)
- ❖ Optical Chips
- ❖ Capillary/Glass Lenses
- ❖ Fiber Bundles
- * Ribbon Fiber
- ❖ Bare Fiber





Features Include:

- ❖ Micrometer controlled positioning of the fixture in 1-micron increments ensures components are polished to exact, repeatable lengths
- ❖ Precision spindle indexes vertically without angular variance, maintaining component orientation to the plane of polish
- ❖ Fixture oscillation and rotation provide variable directional polishing, exceeding figure-8 requirements
- ❖ Adjustable load
- ❖ Cam-locking system allows quick, easy fixture attachment and removal during the polishing procedure
- ❖ Bi-directional platen rotation with variable speed control from 5 to 350 RPM
- ❖ Digital Timer allows unattended, programmed operation
- Water flow may be used during polishing to flush debris, extend abrasive life and improve surface finish/yield

TURN-KEY SOLUTION!

Allied offers a variety of standard fixtures as well as inhouse capabilities for fixture design and manufacturing, and the development of polishing procedures in our applications laboratory



An integrated handle offers quick and easy transfer and provides support for pigtails, eliminating tangling



The loading/unloading station secures the fixture via cam-lock, allowing easy operator access and stability



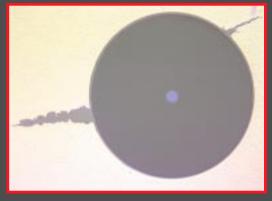
Ferrules may be inspected without removing them from the fixture (shown on Zeiss AxioVert 100 available from Allied)



Ceramic Ferrule, APC/Flat



V-Groove/Fiber Array

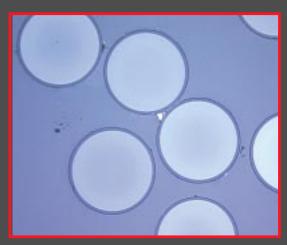


Defective Ceramic Ferrule, APC/Flat

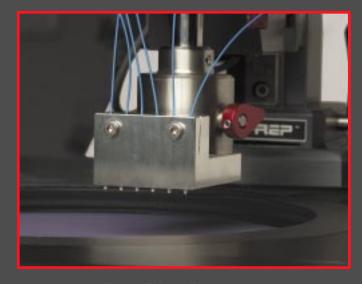




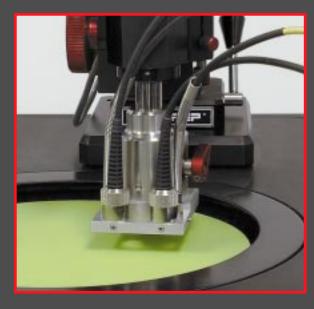
Capillary/Glass Lens Fixture and Final Polish



Fiber Bundle Polishing



Bare Fiber Fixture, 8°



4-Position Connector Fixture



Loading Stand with Optical Chip Fixture



Ferrule measurement system verifies compliance to length specifications

ALLIED Offers a Full Range of Polishing Supplies for Fiber Optic & Optical Component Applications









Bonded Diamond Discs



Diamond Lapping Film Sheets



Diamond Lapping Film Discs

All Abrasive Films are Available in a Wide Variety of Disc and Sheet Sizes

	DIAMOND	A/O	SıC	Снкоміим	Сегіим	SiO	METAL BONDED
						SIO ₂	
	LAPPING	LAPPING	LAPPING	OXIDE	OXIDE	Polishing	
MICRON	FILM	FILM	FILM	LAPPING FILM	LAPPING FILM	FILM	Discs
30	X	X	X				X
20	X	X					
15	X		X				X
12		X					
9	X	X	X				
6	X						X
5		X	X				
3	Χ	X	X				
2		X					
1.5	X						
1	X	X	X				
0.5	X		X	X	X		
0.3		X					
0.1	X						
0.05		Х					
0.02						Χ	