

# ULTRAPOL

End & Edge Polisher

## Flat & angled preparation of optical & electronic components

ULTRAPOL End & Edge Polisher has been designed to provide accurate lapping and polishing for most research and industrial applications.

Key to the high quality performance of the unit is the calibration of the polishing base and the advanced angular control provided by the polishing head.

Built-in features such as tachometer, process end-indicator, timer, and head oscillation provide assurance the finest surface production.

The specific workholder for an application is held firmly and repeatably with the system's quick release interface. Standard holders are available for most applications, including:

**Capillary / glass ferrule polishing**

**Planar Waveguide polishing**

**Bare fiber polishing (for 0° to 12° end polishes)**

**Integrated optics**

**SEM and TEM sample preparation**

**IC Wafer and package-level backside preparation**






**Encapsulated mount polishing**

Custom workholders can also be designed to your specific needs.

ULTRAPOL End & Edge Polisher uses 8 inch diameter diamond lapping films which are easily changed for maximized output.



### Product Highlights

-  Fully Angle adjustable
-  Quick Release Interface allow for fast and repeatable mounting and demounting.
-  Holders available for most components
-  Fast process times
-  Low run-out lap for flat optical polishes

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### Product Specifications

System Part #	6390.1
Angular accuracy	0.1 degrees
Angular Range	0 to 12 degrees
Footprint	22 inches (55 cm) wide x 12 inches (30 cm) deep x 19 Inches (48 cm) high
Unit Weight	27 kg (60 lbs)
Voltage	110 V, 60Hz (220 to 240V, 50 Hz available with 4026.1) adapter

### System Accessories

2239.1	8" (200mm) anodized lapping plate
1301.5	Lamp
1503.1	Disc Holding Band

### Workholders

4079.1	Thin plate edge polishing holder – holds plates up to 2.5cm long
4079.2	Thin plate edge polishing holder – holds plates up to 5cm long
2707.1	Bare fiber holder (with 125 micron replaceable ferrule) – 1 position
2707.4	Bare fiber holder (with 125 micron replaceable ferrule) – 4 positions
2745.1	Bare fiber holder – holds 5-8 fibers – for fibers > 400 micron (specify fiber size when ordering)
3552.1	Saddle Clamp – holds endoscopes, glass rods etc
3547.1	V-clamp – holds large fiber bundles and rods (16mm to 34mm diameter)
2727.1	Capillary / glass ferrule workholder (1.25 to 2.5mm diameter) – 12 positions
2726.1	Capillary setting stand – works with 2727.1
2024.1	Encapsulated mount workholder – (holds mounts 0.5 to 1.5 inch diameter)
4065.1	Single die edge x-section / SEM Stub holder

### Diamond Lapping & Polishing Films

M.8438.1	30 micron diamond, 8 inch, plain-backed film (15 pcs)
M.8436.1	15 micron diamond, 8 inch, plain-backed film (15 pcs)
M.8437.1	6 micron diamond, 8 inch, plain-backed film (15 pcs)
M.8433.1	3 micron diamond, 8 inch, plain-backed film (15 pcs)
M.8432.1	1 micron diamond, 8 inch, plain-backed film (15 pcs)
M.8450.1	ULTRAFILM B, 8 inch, plain-backed film (100 pcs)

Product specification and appearance are subject to modification without prior notification.