

ENDFACE PREP STATION II

Large-diameter optical fibers are increasingly important in the development of new optical technologies. Cleaving these fibers presents many challenges, more so as the fiber diameter increases. Low angle offsets and smooth, flat endfaces are required. Many fibers are non-round or have internal structures that interfere with conventional cleaving. With some fibers priced in hundreds of dollars per meter, the length of cutoff scrap must be minimized.

The 3SAE EndFace Prep Station meets these challenges with a novel, polishing-based design that now features both flat and angle polishing. The results are consistent, even for shaped fibers. The endfaces are flat and highly polished. The EPS is not an adapted connector polisher – it is a purpose-built LD fiber preparation unit optimized for splicing and other large diameter fiber termination applications.

Choose from a selection of standard programs, or create and store a custom program for a specific fiber. Selectable programs ensure repeatable performance and the bright, clear LCD screen guides the user with the correct action for each step. No special skill or “touch” is required –the EPS’s precision fixturing holds the fibers precisely, and the automated system lowers the fibers smoothly onto the adjustable-speed polishing plate.

A filtered-air final cleaning/drying system is used to dry the fiber after cleaning in the included 3SAE Ultrasonic Cleaner. The 3SAE Ultrasonic Cleaner is a purpose-built ultrasonic fiber cleaner that was designed specifically for fiber applications. Many years of splicing experience went into the functional, ergonomic design that ensures consistent cleaning results. When the preparation process is complete, the fiber endfaces are flat, low-angle, and ready for splicing. Less than 2mm of scrap length means less wasted expensive fiber and allows more accurate placement of splices and components.



Key Features:

- Angled polishing capabilities
- Lowest available cleave angles
- Less than 2mm scrap fiber waste
- No additional fiber handling system required
- Operator independent
- Easy handling
- No PC required
- High first pass yield

Technical Specifications:

- Fiber Cladding: 400-2000um
- Cleave Angle: Typical < 0.30 degree
- Angle Cleaving: Up to 15 degrees of rotation (from vertical).
- Fiber Waste: Typical < 2mm
- Cycle Time: Typically 1-3 minutes per fiber
- Power Source: External Supply 24V
- Dimensions: 11.8” x 11.5” x 8.8”
- Compressed Air: max 95psi., 0.6 SCMF

Product

EPS Series II

Product	Part Number	Qty
Power Supply	SPT-10-0846	1
Power Cord	FPU-02-0037	1
User's Manual	N/A	
3SAE Ultrasonic Cleaner	ACC-01-0001	1
Power Supply	SPT-01-1243	1
SS Polishing Disc (4)	SPT-01-0241	1
Diamond Polishing Papers (12)	N/A	1
Weights	N/A	1
Fiber Holders (400,550,600,750,800,1000)*	N/A	
6mm to 1/4 inch NPT Adaptor	SPT-10-0395	1
Air Line 6 feet at 6mm	N/A	1

Optional Components

30um Diamond Lapping Film	SPT-03-0473	
9um Diamond Lapping Film	SPT-03-0474	
3um Diamond Lapping Film	SPT-03-0475	
1um Diamond Lapping Film	SPT-03-0476	
50g or 100g Weight	SPT-01-0198 or -0199	
SS Polishing Disc	SPT-01-0241	
Air Filter	SPT-10-0008	
Teflon Disc Film	CON-10-0016	
*Custom Holders Available		

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