

PORTABLE OPTICAL FIBER POLISHER

BUEHLER® **FIBRMET**®



The BUEHLER® FIBRMET® Polisher is the answer to most optical fiber end polishing problems found in making superior breakable connections. The polisher provides broader capabilities as well as an easy, quick and accurate means for polishing optical fiber ends to maximize light transmission.

APC Capabilities

The BUEHLER FIBRMET Polisher now has capabilities for polishing APC (Angled Physical Contact) connectors. It now accommodates the FC/APC, SC/APC, and ST/APC connector configurations. Both initially flat and pre-angled APC connectors can be polished on this unit utilizing a simple two to three step process.

Accuracy

The unique FIBRMET Polisher mechanism provides the initial gentle pressure required at the beginning of the first preparation step. This adjustable, pneumatically dampened arm prevents shearing of the fiber during the removal of rough edges caused by the cleaving process. The two 4" aluminum polishing wheels rotate at 160 RPM and the optical fiber sweeps across the disc at a fixed rate of twelve sweeps per minute

under constant spring pressure. This combination of mechanical forces ensures flatness, a fast polishing rate and prevents directional polishing effects.

Ease and Quickness

A simple adapter mechanism allows the user to attach any commercially available connector or bare optical fiber, then proceed through a two stage polishing operation and achieve a flat or APC (Angled Physical Contact) polished and scratch-free optical fiber in less than two minutes (average polishing time). Innovative design guarantees reproducible results even when used by relatively unskilled personnel.

The FIBRMET Polisher also offers these standard features:

- Precision teflon bearing shaft
- Simple connector adapter - handles commercially available connectors and bare optical fibers
- Adjustable polishing stop
- Storage compartment for polishing discs
- Capability for polishing APC connectors
- Carrying strap for better portability

System Specifications

No. 69-3000-160 FIBRMET® Optical Fiber Polisher, complete with two 4" aluminum polishing wheels, 1/33 HP gear motor for operation on 115V/60Hz/1 phase electrical service at 0.6 Amp, 8'3-wire cord and plug with wrap bracket, water atomizer bottle, FIBRMET 4" polishing discs (20-3 μ and 10-0.3 μ), self-contained carrying case with carrying strap. Operating instructions. Adapters supplied separately.* Overall dimensions 12"W x 9 1/2"H x 13"D (30cm x 24cm x 33cm). Shipping weight 30 lbs. (14kg).

No. 69-3000-012 FIBRMET Optical Fiber Polisher, same as 69-3000-160, except for operation on 12 VDC.

No. 69-3000-250 FIBRMET Optical Fiber Polisher, same as 69-3000-160 but for 220V-240V/50 Hz/1 phase.

Adapters for FIBRMET Polisher for APC connectors

No. 69-3092, Adapter for FC/APC (8 deg) connector.

No. 69-3093, Adapter for SC/APC (8 deg) connector.

No. 69-3094, Adapter for ST/APC (8 deg) connector.

No. 69-3099, Adapter for ST/APC (10 deg)(AT&T) connector.

*Adapters available for most common connector types.

©1993 BUEHLER LTD. Printed in U.S.A. 50M1193 FN-00839



41 Waukegan Road • Lake Bluff, Illinois 60044-1699 USA
Tel: 708/295-6500 • Telex: 210019 • Fax: 708/295-7979
1/800/BUEHLER • 1/800/283-4537