



**SINGLEMODE PERFORMANCE**

**COMPLETE HAND-HELD OPERATION**

**INDEPENDENT SUSPENSION WORKHOLDERS**

**SUPPORTS ALL INDUSTRY STANDARD AND MIL-SPEC CONNECTORS/TERMINI**

**TELCORDIA COMPLIANT**

## SPECIFICATIONS AND FEATURES

### Optical Performance<sup>1</sup>

#### **Back Reflection**

< -60 dB, UPC  
< -65 dB, APC

#### **Insertion Loss**

< 0.25 dB, typical

<sup>1</sup> Optical performance may vary between connector manufacturers.

### Polishing Performance<sup>2</sup>

#### **Apex Offset**

< 50 microns, maximum  
< 15 microns, typical

#### **Radius of Curvature**

10-25 mm, 2.5 mm ferrules  
7-20 mm, 1.25 mm ferrules  
5-12 mm, APC ferrules

#### **Undercut/Protrusion<sup>3</sup>**

0 to -50 nm

<sup>2</sup> Polishing performance meets and exceeds Telcordia specifications, and can be optimized for specific applications.  
<sup>3</sup> Dependent upon radius of curvature

### Operational

#### **Connector Support**

All industry standard,  
Mil-spec and custom  
connectors/termini

#### **Process Time<sup>4</sup>**

New termination: 2 min.  
Connector repair: < 1 min.

#### **Polishing Pressure**

Adjustable, linear displacement

#### **Cycle Timing**

User adjustable

#### **Polishing Motion**

Random orbital

#### **Power**

9 volt alkaline  
AC adapter

#### **Weight**

1.8 lbs

<sup>4</sup> Singlemode UPC/APC finish.

Production performance is now available in field environments in the form of Proton™. Though portable and battery operated, Proton™ consistently achieves singlemode UPC and APC finishes. Proton™ incorporates the same Independent Suspension (IS) and optically aligned workholder design<sup>5</sup> found in Krell's mass production Scepter™ Polishing System.

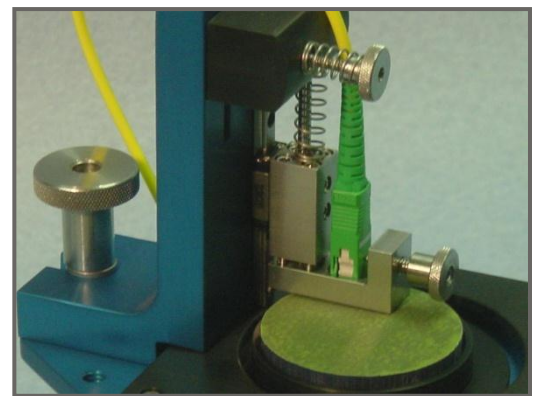
## VERSATILE

Proton™ has been conceived for true hand-held operation. Connectors can be loaded, polishing pressure set and films changed-out without the need of a table, workbench or external support. Proton™ can polish connectors sideways and at most orientations, permitting access to cabling in the tight confines of wire closets, cross-connects and fiber nodes.

## PORTABLE

This unique design makes Proton™ the ideal choice for all field networks such as Fiber to the Home/Premise (FTTX), shipboard/aircraft, CATV and LAN. Whether the application is a new installation, connector repair or even R&D efforts, Proton™ provides the required performance.

<sup>5</sup> Patent No. 7,070,338B1. Specifications are subject to change without notice. Rev. 2, 1/13



Proton™ workholders feature Independent Suspension (IS) for controlled pressure and uniform contact with the polishing surface. The workholder is also optically aligned for optimal polish