KRELLTECH
ENERGIZE PHOTONIC PERFORMANCE

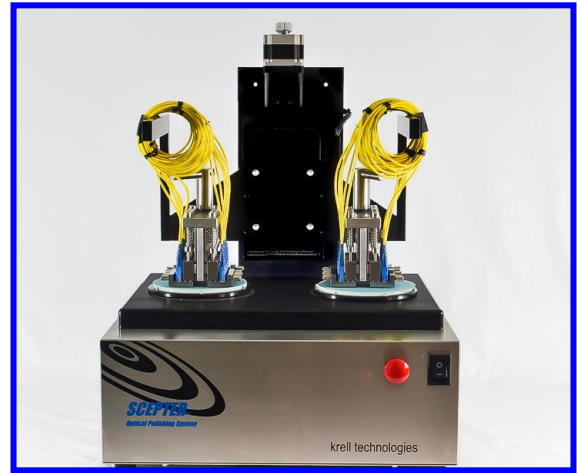# Scepter X2™
Automated Connector Polishing System

DUAL POSITION OPTICAL POLISHING

DOUBLES CAPACITY OF STANDARD SCEPTER™

EXTERNAL PC CONTROL WITH MICROFEED™

INDEPENDENT SUSPENSION WORKHOLDERS

SUPPORTS ALL INDUSTRY STANDARD CONNECTORS / MIL-TERMINI / FERRULES

AIR POLISHING IN MACHINE

TELCORDIA COMPLIANT

SPECIFICATIONS AND FEATURES

Polishing Performance[1]

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[2]
  0 to -100 nm

[1] Polishing performance meets and exceeds Telecordia specifications, and can be optimized for specific applications.
[2] Dependent upon radius of curvature.

Optical Performance[3]

Back Reflection
  < -60 dB, UPC
  < -65 dB, APC
Insertion Loss
  < 0.25 dB, typical

[3] Optical performance may vary between connector manufacturers.

Operational

Connector Capacity
  24 connectors using Independent Suspension workholders
  58 connectors with high capacity workholders
Connector Support
  All industry standard, MIL-spec and custom connectors/termini
Process Time[4]
  Approximately 3 to 8 sec/connector
Polishing Pressure
  Programmable, sub-micron, automated, linear displacement
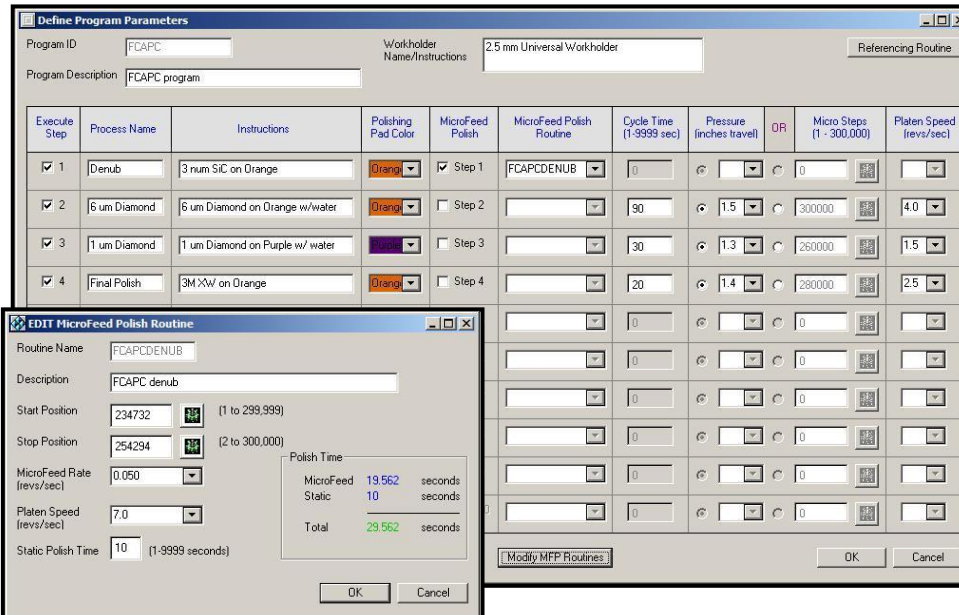**Polishing Speed**
  Program selectable
Cycling Timing
  Program selectable
Polishing Motion
  Random orbital

[4] Singlemode UPC finish.

Scepter features an intuitive user interface for creating polishing programs. All polishing parameters including cycle time, pressure and speed settings are easily inputted for all connector types and desired surface geometries.

Scepter workholders feature Independent Suspension (IS) at each connector position for controlled pressure and uniform contact with the polishing surface. IS permits air polishing while maximizing film life. Each position is optically aligned for optimal polish geometry using KrellTech's patented technology.