

## LARGE DIAMETER SPLICING & TAPERING SYSTEM COMPARISONS

\*Info Valid As Of August 1, 2011

Heat Source	3SAE LDS II Ring of Fire	Vytran GPX 3100 Filament	Vytran GPX 3300 Filament	Vytran GPX 3400 Filament	AFL Arc Master FSM 100P 2 Electrode
<b>Splicing</b>					
Splice Diameter 40 μm (Silica)	✓	No	No	No	No
Splice Diameter 60 μm (Silica)	✓	No	No	No	✓
Splice Diameter 80 μm (Silica)	✓	No	No	No	✓
Splice Diameter 125 μm to 500 μm (Silica)	✓	No	✓	✓	✓
Splice Diameter 1000 μm (Silica)	✓	Fixed V-Groove	✓	✓	✓
Splice Diameter 1200 μm (Silica)	✓	Fixed V-Groove	No	No	✓
Splice Diameter 1500 μm (Silica)	✓	Fixed V-Groove	No	No	No
Splice Diameter >2000 μm (Silica)	✓	No	No	No	No
6 Axes fiber alignment including Pitch/Yaw	✓	No	No	No	No
<2mm Long End-cap Splicing Available	✓	No	No	No	No
Dissimilar Splicing such as 125 μm to 2.0 mm	✓	No	No	No	Not Disclosed
Splices High Melt Temperature Fibers Such as Silicon Carbide and Sapphire	✓	No	No	No	No
Splices Low Melt Temperature Fibers ( <b>down to 800 °C</b> )	✓	✓	✓	✓	No
Splice PCF to PCF with little to no Collapse (Fiber Dependant)	✓	No	No	No	Not Disclosed
Piezo Alignment in "Z" Axis for zero hysteresis splice alignment	✓	No	No	No	No
<b>PM</b>					
<b>Integrated</b> PM Endface Alignment Available	✓	No	No	✓	✓
>35 dB extinction ratio (Fiber Dependant)	✓	Not Disclosed	Not Disclosed	Not Disclosed	Not Disclosed
<b>Tapering and Bundling</b>					
Adiabatic Tapering up to 90 mm	✓	✓	✓	✓	No-18mm Max.
Adiabatic Tapering up to 150 mm	✓	No	No	No	No
Taper Ratios up to 25 to 1	✓	✓	✓	✓	Not Disclosed
Taper Ratios of >50 to 1	✓	No	No	No	No
Taper Shape Control (Other than Linear)	✓	No	No	No	No
Supports Capillary bundles	✓	✓	✓	✓	No
Non-Capillary Bundling Available	✓	No	No	No	No
Automatic Plotting of Diameter over Length for Taper and Splice Analysis	✓	No	No	No	No
Access to Splicing and Tapering Libraries	✓	Not Disclosed	Not Disclosed	Not Disclosed	Not Disclosed
<b>General Information</b>					
Operates Without Inert Gases	✓	No	No	No	✓
<b>Operates without water cooling</b>	✓	No	No	No	✓
Internal, <b>In-Situ</b> Cleaving from 40 μm to 500 μm Available	✓	No	No	No	No
Isothermic Heat Applied to Fiber During Processing	✓	No	No	No	No
Loadcell Feedback Included	✓	Optional	Optional	Optional	No
PC Controlled	✓	✓	✓	✓	No
PC and monitor included	✓	✓	✓	✓	No
Operational, Preventative Maintenance, and Optimization Training Included	✓	No	No	No	No
Internal Tension Test up to 50 N	✓	No	No	No	No
Negligible Contamination During Splicing and/or Tapering	✓	No	No	No	No
Etching Not Required For High Power Applications	✓	No	No	No	Not Disclosed
Lab View Based Operating System	✓	Not Disclosed	Not Disclosed	Not Disclosed	No
Heat Source Consumable Life to exceed 2000 Splices	✓	No	No	No	No
Low cost heat-source elements	✓	No	No	No	No
< 1 Min Hot Swappable Consumable Heat Source	✓	No	No	No	Not Disclosed
Lab View Source Code Provided	✓	No	No	No	No
Radius Measurement Tool for Lenses	✓	No	No	No	No
<b>24/7 support service</b>	✓	No	No	No	No

\*INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.