PHOTON KINETICS

2680 Preform Analyzer

Fully automated characterization of standard and specialty fiber preforms

Features

Versatile

- Characterize both standard and specialty fiber preforms, including rare-earth-doped preforms and preform components, up to 65 mm OD having high index deltas, multiple claddings or thin layers.

High-speed and Accurate

- Seal-less design, reduced immersion liquid volume, plus an improved alignment process and silica reference deliver high-speed preform characterization, and the highest possible measurement accuracy.

Simple Operation

- PKSL software application provides an intuitive user interface and easy-to-use API that simplify automated measurements and facilitate factory integration.

Configurable

- Rail length and support leg options enable a range of measurement and installation configurations to suit your specific requirements.

For more information contact
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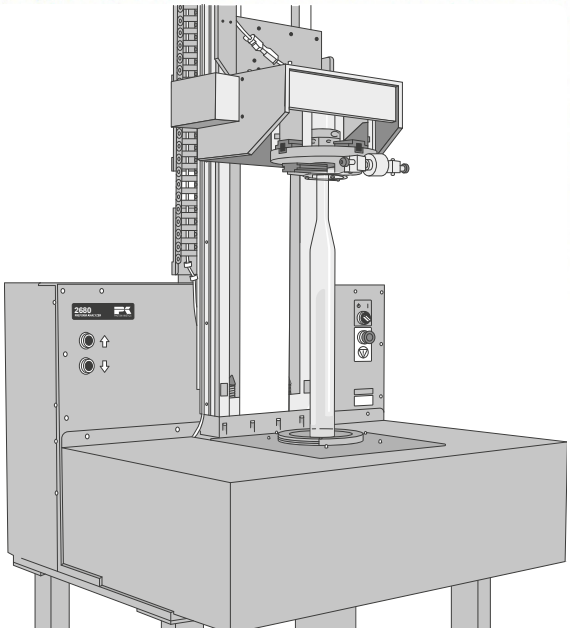

Preform Refractive Index Profile and Geometry

Specifications

Measurement	
Preform Types	Standard and specialty fiber preforms, including rare-earth-doped preforms, and preform components (e.g., tubes, cylinders)
Diameter [1]	
Minimum	5 mm
Maximum	65 mm
Length	
Minimum	300 mm
Maximum	1550 mm
Weight (Maximum)	15 kg
Wavelength	632.8 nm
Performance	
Repeatability [2]	
Refractive Index [3]	≤ 0.00002
Layer Diameter, Alpha Radius	≤ 0.005 mm
Concentricity [4]	≤ 0.005 mm
Outer Layer Non-circularity	≤ 0.1%
Mode Field Diameter [5]	≤ 0.2 µm
Cut-off Wavelength [5]	≤ 5 nm
Alpha Amp., Offset, Exponent	≤ 0.00010, < 0.00005, < 0.05
Data Acquisition Time (single scan)	< 20 seconds (typical)
Configurations	
System	
2680-1/80	Preforms up to 800 mm in length
2680-1/155	Preforms up to 1550 mm in length

Notes:
1. *No bow in preform; handle concentric with preform.*
2. *Standard deviation (1-sigma), 10 repeat scans, preform unmoved, temperature stable to +/- 0.5 °C.*
3. *Excludes transitions between layers, both inside the preform and the immersion liquid-to-preform outer layer transition.*
4. *Any layer with respect to any other layer.*
5. *Predicted drawn fiber value based on preform characteristics.*

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ISO 9001:2015 certified. Printed in USA.
Specifications subject to change without notice

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