

2650 Preform Analyzer

■ Product Description

The 2650 Preform Analyzer's vertical design allows the user to perform rapid, fully automated measurements of core rods, finished preforms, and silica tubes. Automated rotation and z-axis (axial) translation not only enables high-speed, hands-free measurements, but it also provides highly comprehensive preform characterization since refractive index data can be obtained at many rotational angles along the length of the preform. More data necessarily results in more accurate prediction of drawn fiber properties. The 2650 uses the well-known deflection function technique to compute the refractive index profile. Each measurement is referenced to a traceable silica calibration rod mounted in the analyzer which ensures dependable, highly repeatable measurements.

■ Product Features

- Provides valuable process control data
- Simplifies customized measurements, data processing, and storage
- Facilitate hands-free measurement of multiple preform diameters and cross-sections
- References all measurements to pure silica
- Enable analyzer measurement range to be matched to the dimensions of your preforms
- Allow location of preform loading zone at, or above, floor level



■ Product Specifications

Indicator	Unit	Index
Types Measured	/	Single-mode, multimode, tubes, rods
Maximum Diameter	mm	90
Minimum Diameter	mm	5
Minimum Length	cm	30
Maximum Measurable Length	cm	80
Maximum Weight	Kg	25
Wavelength	nm	632.8
Refractive Index Accuracy	/	± 0.0002
Refractive Index Repeatability	/	≤ 0.00005
Layer Dia., Alpha Radius	mm	≤ 0.05
Concentricity	mm	≤ 0.05
Outer Layer Non-circularity	/	$\leq 0.1\%$