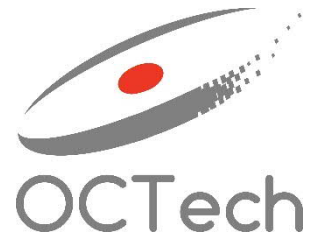


FOR SALE:



PK2600 Preform Analyzer

Application

PK2600 preform analyzer is an instrument for measuring refractive index profiles of optical fibers preforms, produced by MCVD, OVD, VAD and plasma technologies. By its design it is suitable for industrial optical fiber production facilities, as well as for R&D environment.



Current sale:

PK2600 instrument on sale by OCTech was delivered to customer in Japan in 1994 by the original supplier and has been in operation until 2024. Instrument is well-kept and fully operational.



Fig2: General view of PK2600 unit (as received) in excellent condition from previous owner (left), with top view and the original PC computer (right), the insert shows serial number.

The unit has been thoroughly checked and tested in in OCTech's lab by FOIS (see below) in October 2025. Instrument calibration is based on internally mounted fused silica rod. Measurement repeatability was checked by multiple measurements of cross-referenced etalon preforms.

Checking and testing included:

- Sensor position calibration,

- Preform linear actuator, rotating head, and limit switch operation,
- Running and checking all motor drives,
- Checking laser source and optics,
- Checking originally delivered software and PC computer operation.

PK2600 preform analyzer is in perfect condition and suitable for use in optical fiber preform production facilities and R&D labs.

Instrument features

The unique vertical design of the 2600 Preform Analyzer gives fiber manufacturers the ability to fully automate preform positioning, facilitating rapid and comprehensive characterization of preform structure. From the acquired index profile data, the 2600 calculates preform geometry metrics such as core diameter, preform outside diameter, and concentricity. This data also yields equivalent step-index profile parameters, which allow prediction of drawn fiber properties and provide essential preform process feedback. The 2600 is particularly well-suited for manufacturing processes that produce large diameter preforms.

Original instrument specification

Features and Benefits

- Vertical Preform Mounting for Simple, Automated Operation
- Fully automated rotation and longitudinal translation
- No seals or custom cells required for measurement of different preform diameters
- User-definable measurement sequences allow hands-free measurement of as many cross-sections of the preform as desired

Fast, Simple Preform Loading

- Preform holding mechanism allows one-person loading and unloading
- Holds preforms up to 100 mm in diameter
- Allows measurement of preforms twice as long as the longitudinal measurement range

Complete Geometric Analysis

- Refractive index, diameter, radius, noncircularity, layer concentricity for each cross section measured, at each rotational angle and each longitudinal position
- Enables accurate prediction of Mode Field Diameter and Cutoff Wavelength for fibers drawn from the preform

Traceable Calibration

- Every measurement referenced to the built-in silica calibration rod traceable to UK's National Physical Laboratory

Specifications

Refractive Index Repeatability	< 0.00005
Diameter Repeatability	< 0.05 mm
Concentricity Repeatability	< 0.05 mm
Preform Diameter Range	5 - 100 mm
Typical Measurement Time	60 sec.
Dimensions	110 x 140 x 275 cm

NOTE: Instrument does not include any software for tomographic profile calculation ! Such option has to be procured from original supplier.

Testing and inspection

PK2600 preform analyzer can be inspected and checked at OCTech's site in Logatec, Slovenia. OCTech can provide video sessions (remote desktop + internet chat) for remote access checking, using own etalon preforms or by measuring customer provided preforms.

Service and calibration

Services for PK2600 instruments is provided by FOIS Fiber Instrumentation Services UK (link <http://fois-uk.com/>). FOIS provides installation and instrument start-up services on request. FOIS also offers calibration services for all York-developed preform analyzers and other instruments used in fiber industry.



Pricing

Due to instrument age it is offered under favorable sales conditions, making it very suitable for small fabrication facilities, institute or university labs or other R&D facilities with limited investment budgets.

Additional information

For quotes and sales conditions please write to borutl@octech.si or call +386 41 310 327

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