

# PRESS RELEASE

## New Measurement Services for Optical Fiber Analysis

**Martinsried, January 8, 2013 – With the IFA-100 Multiwavelength Refractive Index Profiler AMS Technologies can offer measurement services for product development, incoming inspection and forensic analysis on optical fibers.**

AMS Technologies offers a new service for Refractive Index Measurements on Optical Fiber. At our testing facility in Munich we can secure quick sample turnaround and offer confidentiality of measurement results. The refractive index profile allows determination of key transmission parameters like Chromatic dispersion, Mode Field diameter, Bandwidth, Birefringence and Polarization Mode Dispersion (PMD).

### Line plots and Tomography scans

The measurements can be taken in one dimension giving a line plot of the refractive index at any given cross section of the fiber. This measurement assumes the fiber to be symmetrical and symmetrical geometry is assumed for the computation of the refractive index profile. For the two dimensional measurements several lower dimensional projections are combined to form a full surface profile of the refractive index. This computer tomography based approach does not take assumptions for the fibers being symmetric.



*Image shows a large RIC preform to be drawn into an optical fiber of 125  $\mu\text{m}$  diameter for the production of optical fibers for the telecommunications industry.*

*Photo Courtesy of obs/Heraeus Quarzglas*

### Environmental Testing Solution

The interferometry measurement technique used in the setup does not require external calibration. Measurements can be done with fiber diameters from 40 to 400 $\mu\text{m}$ , measurement wavelength from 450 to 980nm. Fiber material can be silica glass, non-silica glass or plastic. The accuracy of index of refraction is +/- 0.0001, accuracy of stress measurement is +/- 5 MPa.

Please visit our web page for more information [www.amstechnologies.com](http://www.amstechnologies.com)

### AMS Technologies – where technologies meet solutions

AMS Technologies is Europe's leading solution provider and distributor for Optical, Power and Thermal Management Technologies, with 30 years of experience to date and currently serving more than 1000 European customers. AMS Technologies has been delivering solutions into a variety of high-tech markets, including renewable energies, medical, defence & aerospace, telecom & datacom, research & scientific and various other industrial segments. Our customer base consists of Europe's largest leading technology corporations, a network of universities and research institutes as well as the most promising start-ups.

We thrive by working in a 'customer first' environment. Our pan-European customers are serviced from a network of local offices in Germany, the UK, France, Italy, Spain and Sweden, with a focused operations and logistics centre located in Munich, Germany. For further information about AMS Technologies please look at [www.amstechnologies.com](http://www.amstechnologies.com)