



## **Bruker AXS Introduces the New *D8 ENDEAVOR*<sup>TM</sup> X-Ray Diffraction System Offering Highest Performance for Process and Quality Control**

NEW ORLEANS, Louisiana – March 9, 2015 – At PITTCON 2015, Bruker AXS, the global market leader in X-ray diffraction (XRD) instrumentation, introduces its *D8 ENDEAVOR*<sup>TM</sup> process diffraction solution for the analysis of polycrystalline material by means of X-ray powder diffraction.

The new *D8 ENDEAVOR* is the successor to the well-established and market leading *D4 ENDEAVOR*<sup>TM</sup> process diffractometer. The new *D8 ENDEAVOR* pairs unprecedented accuracy, precision, and analysis speed with the superior hardware and software technology inherent to all members of the successful D8 family of Bruker AXS' diffraction solutions.

The *D8 ENDEAVOR* is equipped with the latest 1-dimensional *LYNXEYE XE*<sup>TM</sup> detector technology enabling shortest measurement times while maintaining best sensitivity for the detection of crystallographic phases with lowest concentrations. This exceptional feature of the *D8 ENDEAVOR* is the essential for powerful process and quality control in the aluminum, cement, geology, mining, pharmaceutical, and pigment industries.



The flexibility of the sample handling with the new *D8 ENDEAVOR* has been extended to guarantee highest adaptability and reliability: Conveyor belt or external robot interface for automated sample loading, continued measurements during manual loading of single samples or sample trays while measurements are executed, fast and robust internal sample handling, as well as a permanently kept horizontal sample position – all this is realized with the new design of the *D8 ENDEAVOR*.

The new *D8 ENDEAVOR* is easy to operate in either standalone PC-based or in automation-integrated mode. On top, the optional and unique touchscreen interface simplifies measurement and data analysis for non-expert operation.

Another crucial part of the diffraction solutions based on the new *D8 ENDEAVOR* is the software *DIFFRAC.SUITE*<sup>TM</sup> and *TOPAS*<sup>TM</sup>. The well-proven *DIFFRAC.SUITE* offers intuitive operation based on a graphical user interface that can be customized to match the operator's requirements. The brand-new *DIFFRAC.DQUANT*<sup>TM</sup> plug-in provides enhanced conventional or legally mandatory quantification



methods based on calibrations, while the unique *TOPAS* puts the *D8 ENDEAVOR* ahead of any other X-ray diffraction instrumentation. With *TOPAS*, the quantitative crystalline phase and micro-structure analysis can be executed accurately without any standard samples due to the unique implementation of the fundamental parameter approach.

Dedicated application packages for cement, minerals, and metals and professional support by the global Bruker service network guarantee a fast ramp-up and highest up-time of the new *D8 ENDEAVOR* diffraction solution.

### **About Bruker Corporation**

For more than 50 years, Bruker has enabled scientists to make breakthrough discoveries and develop new applications that improve the quality of human life. Bruker's high-performance scientific research instruments and high-value analytical solutions enable scientists to explore life and materials at molecular, cellular and microscopic levels.

In close cooperation with our customers, Bruker is enabling innovation, productivity and customer success in life science molecular research, in applied and pharma applications, in microscopy, nano-analysis and industrial applications, as well as in cell biology, preclinical imaging, clinical research, microbiology and molecular diagnostics. For more information, please visit: <http://www.bruker.com>.

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