REAL TIME MINERAL ANALYSIS IS HERE

Introducing the Next-Gen

X-Series CMXγ Continuous on-stream Mineral Analyzer

for cement blends and other dry powder materials

INCORPORATED SAMPLE PREPARATION ROBOTICS

OVER 500 TIMES MORE MATERIAL ANALYZED PER HOUR. ULTRA HIGH ACCURACY AND REPEATABILITY

REAL TIME MONITORING FOR TIGHTER PROCESS CONTROL

CONTINUOUS, REAL TIME MINERALOGICAL ANALYSIS FOR CEMENT BLENDS CONTROL. MADE. EASY.

Introducing the X-Series CMXγ: the world's most advanced on-line continuous x-ray diffraction analyzer which reports the quantitative composition of selected crystalline phases in a material.

The results are reported in real time for use in the control room for automatic correction of feeders or other dosing equipment.

The CMXγ is designed for measuring and reporting gypsum, lime, alumina, magnesia, iron oxyde and sulphur trioxide, as well as pozzolan or fly-ash additions, for unparalleled cement blends quality control.

CMXγ is exceptionally suited to control cement setting time, control gypsum feeders or maximize limestone, fly ash, pozzolan or slag additions.

Capable of measuring all gypsum states directly, the analyzer continuously checks for product contamination and out-of-spec material. The ideal tool when multiple cements are produced in one mill, CMXγ minimizes product changeover time and reducing variability.

Mazimize your gypsum, fly ash, pozzolan and limestone additions. Prepeare the perfect cement recipe. Always. The ruggedized CMXγ machine brings certainty to your cement quality.

CMXγ uses an array of state-of-the-art, proprietary Nova SxD silicon strip detectors, specifically developed by FCT ACTech to enable the system to operate in a fixed geometry pattern, replacing the need for a moving goniometer.

The incoming x-rays are diffracted from the analyzed sample at 2θ angles and the sensors are pre-positioned to intercept and measure only the minerals of interest (application specific). This results in increased reliability and uptime of the analysis apparatus and minimum MTBF.

Similar to its predecessor, the CMXγ provides a direct means of montioring the mineralogical and crystalline components of dry powder materials, in real time for true process control.

Seamlessly integrates sample preparation robotics, ultra fast detection and analysis into one acurate, automated process.

The CMXγ is first and foremost a performance and quality assurance tool, enabling plants to automatically adjust feeders to mazimize gypsum and limestone additons while ensuring consistent cement blend recipes.

The CMXγ is designed to reduce process variability by increasing and improving control.

Features & Benefits

- Ultra fast, continuous on-stream or "fast batch" analyzer delivers complete, real time mineralogial results of target minerals

- Intuitive and easy to use

- Designed for indoor or outdoor continuous online or at-line operation

- In-built, automatic precision sample preparation robotics replace the need for a separate pulverizer and pellet press

- Large processed sample quality 150g/min (¼lb) generates results that are more representative of the process than any other available methods

- No radiation sources, uses a high efficiency x-ray tube which can be easily turned off for safe planned maintenance and other checks

- Rapid analysis with continuous trending and control compared to any conventional sampling and laboratory testing

- Unique patented sample delivery system delivers outstanding accuracy and repeatability

- Designed for remote unattended operation, 24/7/365

- Self-referencing internal calibration minimizes drift and increases accuracy

- Array of proprietary, state-of-the-art, high resolution solid state detectors displayed in a fixed pattern to detect all minerals in cement blends of interest for accurate, high speed XRD analysis

- Ultra efficient x-ray system decreases power consumption and heat generation

- Industrial grade HD touchscreen computer interface for easy operation, diagnostics and control

- Integrated Modbus over ethernet protocol for fast and easy data transfer

- Modular system allows for multiple batch analysis or at-line configurations

- Powered by ClassX proprietary software incorporating smart GUI, Rietveld quantitative software, diagnostics, advanced analysis, and control
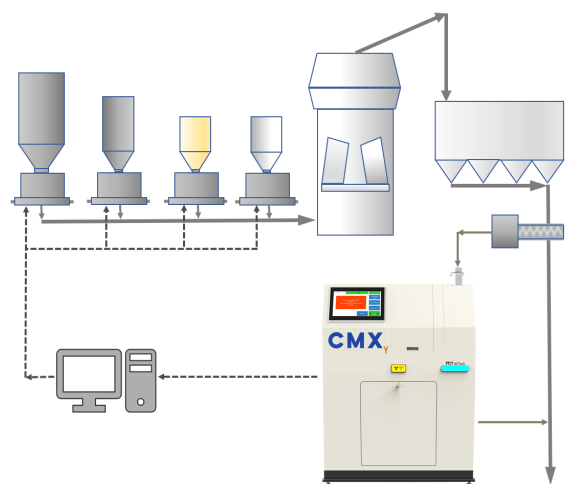
CMX$_Y$ Specifications

Dimensions
1200 x 900 x 750 mm (47 x 35 x 30 inches)

Weight
180kg (400lbs)

**Electrical specifications**
110/240 VAC 50 or 60 Hz, 900W, 1 Phase

Why FCT ACTech?

For almost 20 years, FCT ACTech has been in the business of engineering tools for better process control.

With our new X-series online and fast batch analyzers, we have introduced advanced levels of precision and accuracy to process, recovery and control matching or bettering any classic standard "laboratory" instrument.

The CMX$_\gamma$ is the most advanced mineral analyzer in the X family of products, incorporating XRD technologies and sample preparation robotics, to deliver unparalleled levels of analysis for all major minerals of interest for cement blends control.

When you purchase an FCT ACTech product, you get local support backed by a global network of professionals with intimate industry knowledge.
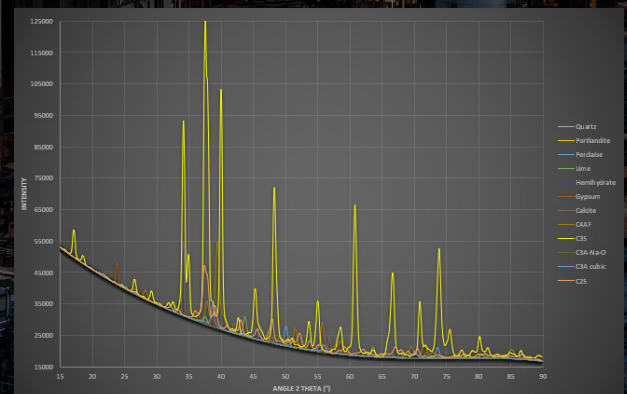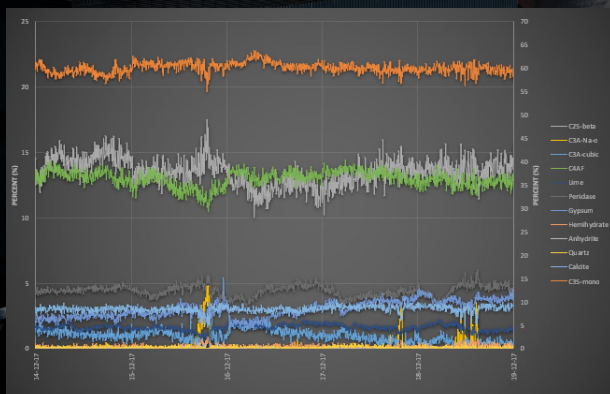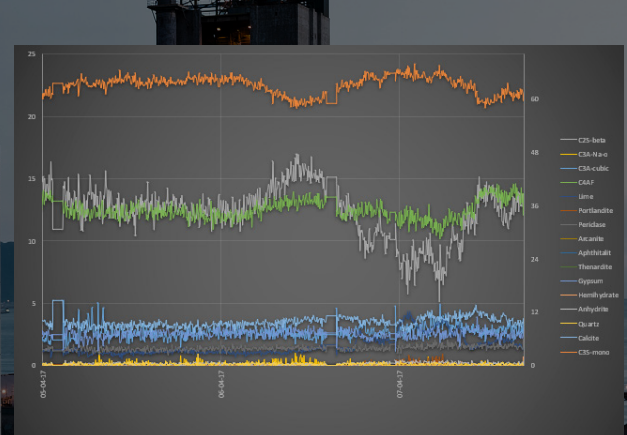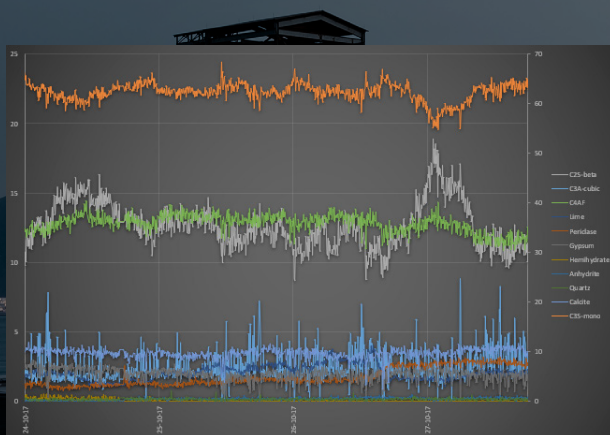
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