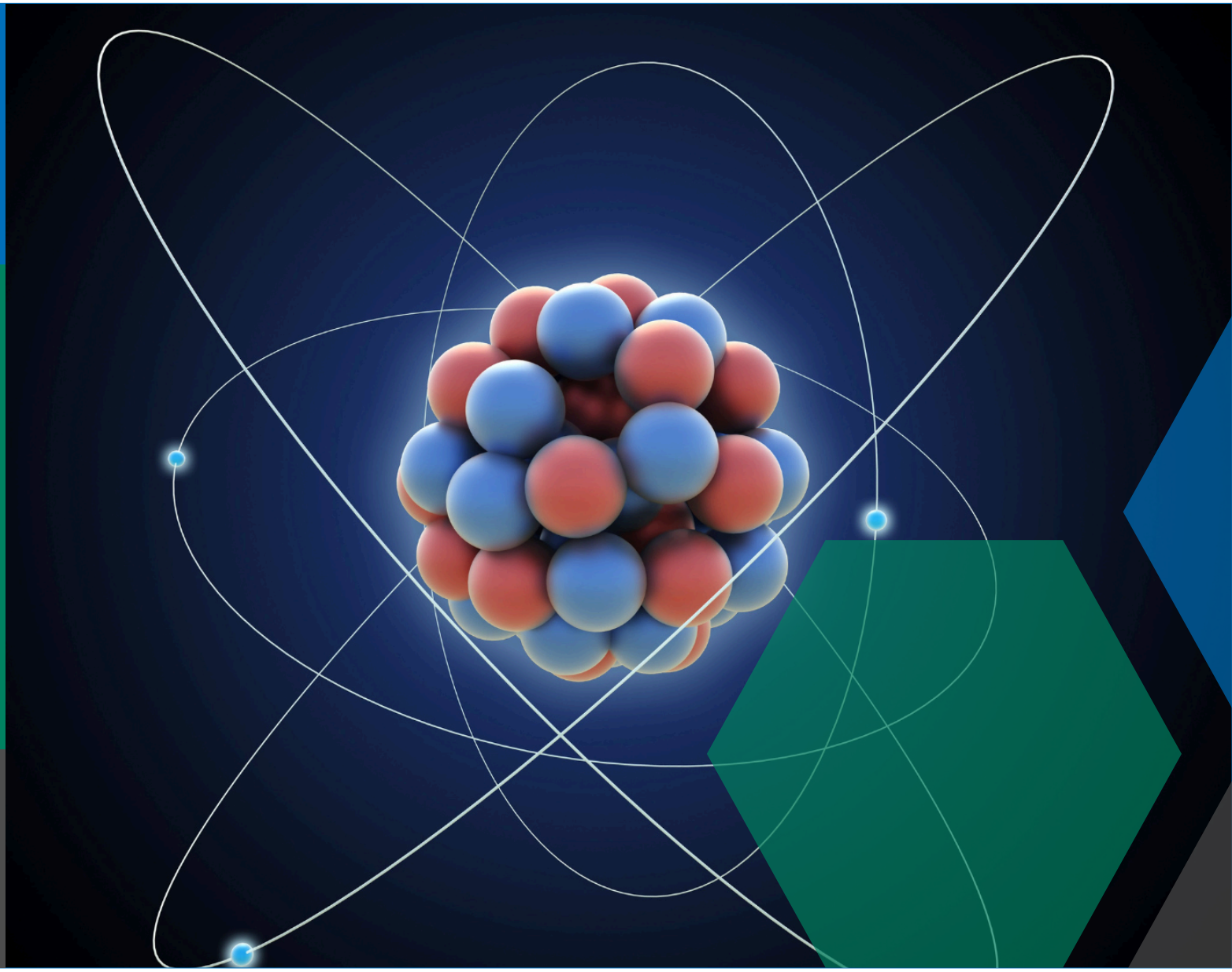
RTi REAL TIME INSTRUMENTS

AllScan nGen

Advanced Neutron Generation Technology



Elemental Analysis

24/7 Remote Support

Measure All Material

Real Analysis. **Real** Data. **Real** Time.

EMPOWERING INFORMED DECISIONS THAT SHAPE TOMORROW

MEASUREMENT IN MINING

Understanding the material's composition is vital at every stage, allowing operators to maximise product value, maximise efficiency and minimise risk. With value dependent on material content, small changes can drastically alter the end value of the material. Without measurement, operators are incapable of determining material value and run the risk of drastically reducing revenue.

PGNAA TECHNOLOGY

Material composition is usually determined by laboratory sampling. This process is slow and expensive, failing to provide information in real-time. RTI focuses on measuring materials in real-time while they are still being processed.

The AllScan harnesses Prompt Gamma Neutron Activation Analysis (PGNAA) to measure the entire flow of material, penetrating bulk materials.

This method of analysis provides a number of benefits:

- Target a wide range of elements.
- Can be used in various setups (on-belt or in-pipe).
- Non-invasive, no contact with material.
- Measure entire cross section of material.

WHY REAL TIME INSTRUMENTS?

RTI solutions are built by miners, for miners, with over 20 years of experience.

With a global customer base, 24/7 remote servicing and a customer focused approach, RTI has established itself as a leading provider of real-time analysis solutions across a range of commodities.

Our solutions are tailored to the customer, with expertise in bulk ore sorting, ore management, grade control, feedback systems and process optimisation.

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GLOBAL HEADQUARTERS

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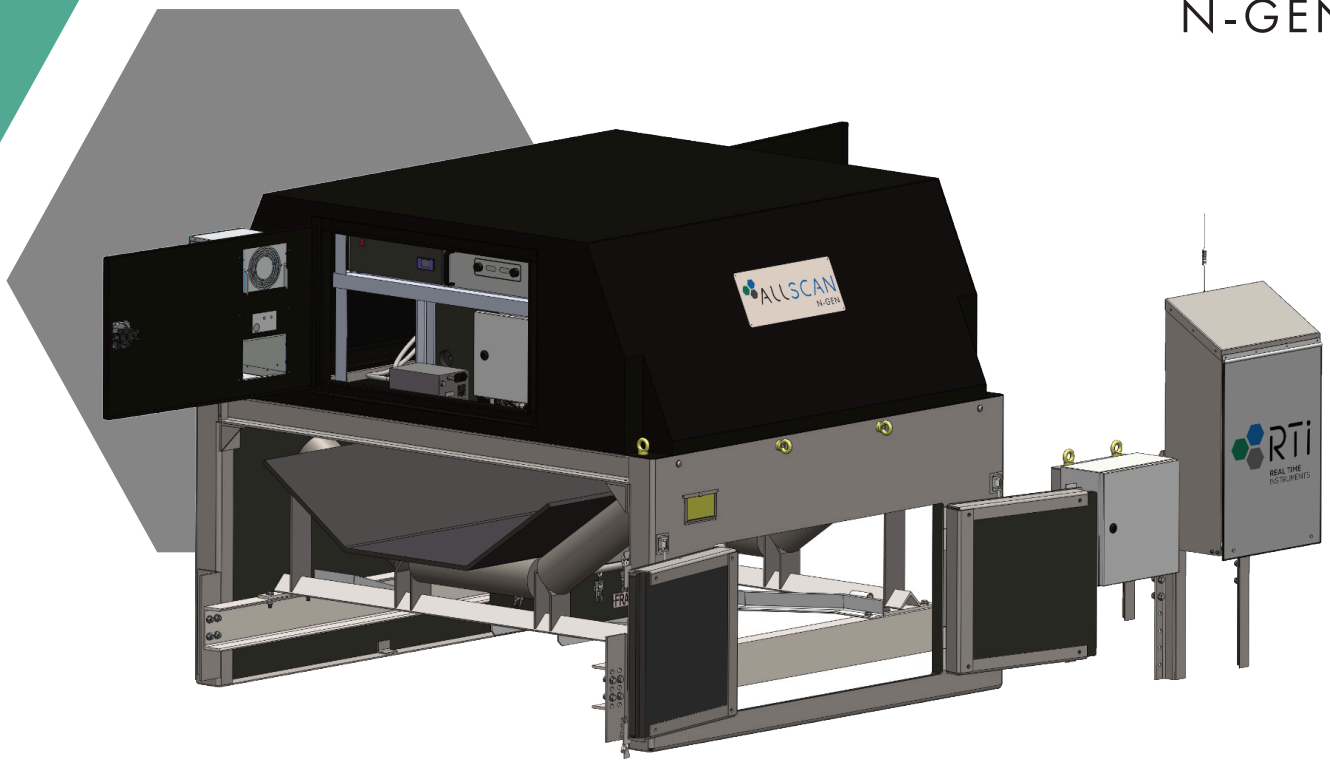
ALLSCAN
N-GEN



Specifications

Measurement Technique	Prompt Gamma Neutron Activation Analysis
Elements Measured	Fe, Al, Si, K, Ti, Ca and others. Total Ash calcuated using elements found in Ash.
Source	Deuterium-deuterium fusion-based neutron generator (20 - 40µg equivalent) producing low energy 2.45MeV neutrons. Deuterium fuel gas refilled on a 2.5 - 3 year basis.
Radiation Exposure	Typically below 5µSv/Hour outside and around the exterior of the analyser. Average 1.3µSv/hour on or near the catwalk beside the analyser.
Belt Widths	750 - 2400mm (30 - 96 inch).
Environmental Conditions	Sensitive parts are sealed from the environment. The analyser is designed to operate in all outdoor weather conditions from -10 to +50 degrees Celsius in high or low humidity or precipitation.

Unrivalled Accuracy and Responsiveness

At the heart of the AllScan n-Gen elemental analyser is fusion based Neutron Generation technology. By incorporating this technology, the AllScan n-Gen is the safest neutron source available for PGNAA analysers. Other neutron sources utilise a radioactive isotope.

The AllScan n-Gen and AllScan incorporate two sophisicated algorithms - DuraG and DuraSum.

- DuraG - Overcome the usual adverse affects of chlorine on analytical performance.
- DuraSum - Eliminate the need for time-based averaging of data in order to obtain stable results.

Measuring Moisture

RTI analysers incorporate state of the art technology deriving moisture from elemental composition eliminating the need for a second analyser dedicated to moisture measurement.

Improving Safety

The neutron generator can be easily switched off, stopping production of radioactive neutrons.

I/O And Diagnostics

A browser based touch panel interface in the control cabinent allows for immediate access to all data and functions including trending displays.

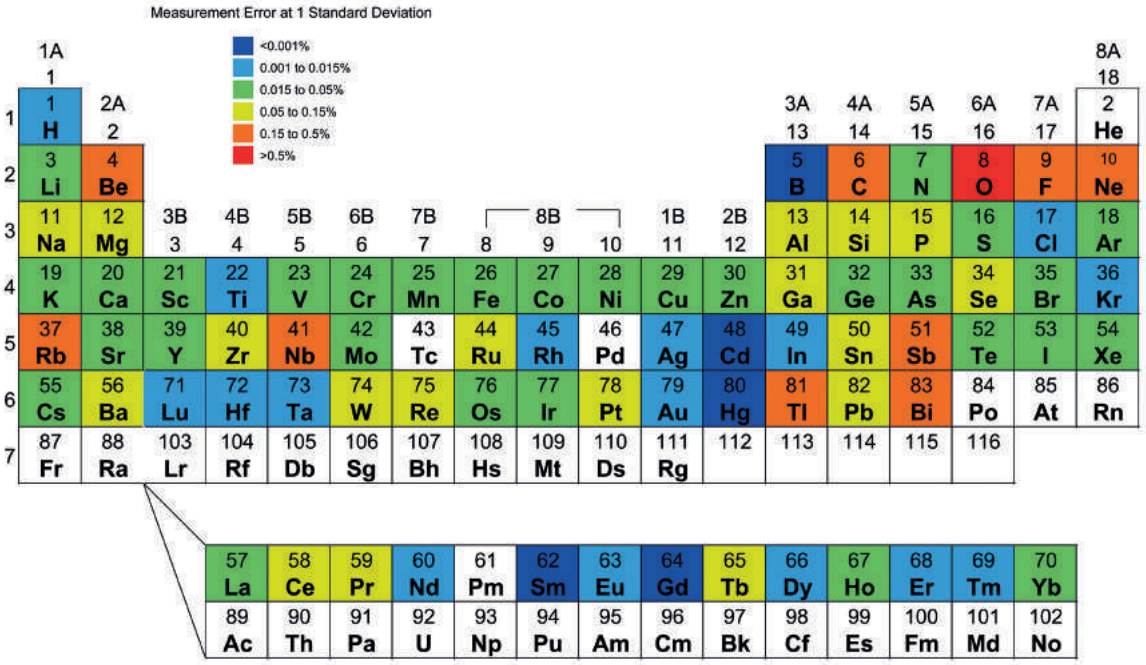
A 4G interface is included so that data is uploaded automatically to a secure site, providing alternative ways to view and retreive data that is completely independent of site communication infrastructure.

Simplifying Installation

Our elemental analysers are designed to mount on the support rails of a conveyor system, and the small size and weight of analyser greatly simplifies installation.

24/7 Remote Support

Our remote support team is available 24/7 and our analyers harness guided workflows for fast problem solving onsite for issues without RTI assistance.



Cross Belt Measurement

PGNAA analysis allows for measuring the entire profile of the material.

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LOCATIONS

North America | South America | Oceania

GLOBAL HEADQUARTERS

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