

Analytical Equipment:

- **Portable X-Ray Diffraction (XRD)**
 - Terra Portable XRD. The worlds first truly field portable XRD for mineral identification in the field. Applications range from metals and minerals through to building materials and pharmaceuticals.
- **X-Ray Fluorescence (XRF) Spectrometers**
 - Hire of hand held XRF analyser for in-situ elemental analysis of soils, ore, rock, core, mineral concentrate, alloy metals, etc.
 - Spectro benchtop XRF spectrometers. For analysis of elements sodium to uranium. Capable of up to 8 polarisation and secondary targets. Applications include mining and industrial process control, light and trace element analysis, ultra low sulphur in fuel, additives in oils, slag and cement analysis, small spot analysis, line scans and element mapping.
 - Spectro Hand Held Spectrometers. For applications including mining analysis, environmental screening, PMI, alloy and RoHS/WEEE. Analyse elements between aluminium and uranium in a single test.
- **Inductively Coupled Plasma (ICP) Spectrometers**
 - Spectro ICP Spectrometers. For environmental and industrial applications including water, waste water, industrial water, soil, sewage sludge, filter dust, wear metals in oil, additives in oil, RoHS/WEEE. Get unbeaten resolution of up to 8.5 picometers in the wavelength range of 130 to 340 nm. 'Plug & Analyse' methodologies for all common environmental and industrial applications.
- **Particle Size and Shape Analyser**
 - Photo-optical Particle analysis. Analyse grain sizes and grain shapes of dry and non-agglomerating particles in bulk materials measuring in the range from 10 µm to 400 µm.
- **Carbon and Sulphur Analysers**

Ideal for analysis of materials such as coal, coke, oil, cement, catalysts, mineral ores, soils, plants and many more.

 - Sulphur Analyser (low sulphur, high sulphur or dual range)
 - Carbon Analyser (carbon only)
 - Sulphur & Carbon Analyser (carbon and low sulphur, carbon and high sulphur or carbon and dual range sulphur)
- **Thermogravimetric Analysers**

Volatile, moisture and ssh analysis of iron (and other) ore, coal and organic materials.

 - Automated systems with single or four furnace options
 - Temperature range of ambient to 1000°C
 - 40 Position sample tray
- **Loss On Ignition / Moisture Analysers**
 - Autoweigh Moisture Analyser. Moisture and ash analysis for the coal, feed and food industry. Soil moisture testing and loss on ignition for the mineral industry.
 - Proximate Analyser for coal testing
- **Nitrate and Ammonia Analyser**
 - Analysis of up to 180 samples using ion selective nitrate probes
 - Adjustable for various analysis methods
- **Automatic pH and EC Analysers**
 - Measure pH and electronic conductivity of soil samples