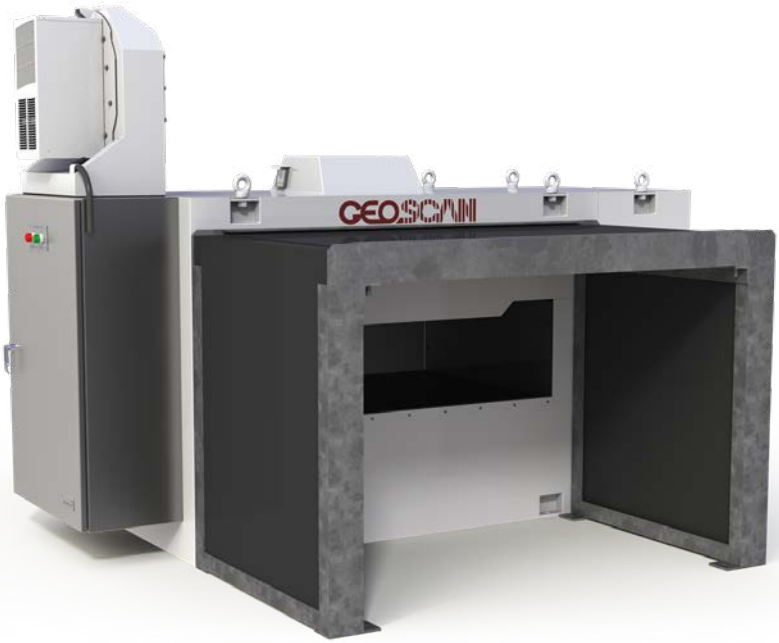
GEOSCAN-S

ON-BELT ELEMENTAL ANALYSER FOR STEEL



GEOSCAN-S Applications

Real time elemental analysis allows active control over conveyed material quality, with timely information on various elements enabling operators to make decisions that optimise process control, maximise the value of the resource and minimise operating costs.

GEOSCAN-S Technology

GEOSCAN incorporates a proprietary detector array giving a better spectrum by allowing simultaneous detection in the individual detectors. This compound array overcomes the limitations of conventional, low efficiency detection systems. The GEOSCAN spectrometer can operate at much higher count rates than conventional systems, with lower pulse pile-up.

This innovation vastly improves the signal to noise ratio and spectral peak resolution.

GEOSCAN-S Advantages

- Ultra-compact design. Installs between standard idlers;
- Industry-leading proven performance;
- Customised calibrations;
- Three models cater for belts 600mm to 2400mm and bed depths to 530mm;
- No contact with material or belt;
- No wear parts = low maintenance;
- Interface to most process control systems;
- No sampling during normal operation;
- Can use belts with chlorine or steel cords;
- Measures all B4 elements (Si, Al, Ca, Mg) in sinter;
- Detects contamination in recycled steel;
- Proven short paybacks in many applications (bulk diversion, blending, monitoring, feed forward, etc.) to optimise plant performance;
- Monitor feed to blast furnace, smelter, incinerator, convertor, kiln or sinter oven;
- Control steel blends, additives;
- Prevent furnace upsets.

SCANTECH
Process control specialists

ISO 9001
BUREAU VERITAS
Certification

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GEOSCAN-S

GEOSCAN-S Description

The GEOSCAN-S Elemental Analysis System is a compact, fully integrated, single IP65 rated enclosure, which is installed on the conveyor and continuously monitors the full flow of ore and concentrates, without the need for routine samples to be taken and analysed. The GEOSCAN-S provides real time information, with updates typically every two minutes, as well as cumulative averages for the current hour, shift or shipload.

Typical elements analysed are Iron, Silicon, Aluminium, Calcium, Magnesium, Sodium, Sulphur, Potassium, Manganese, Titanium, Carbon and Phosphorous. This premium technology provides real time analysis of the important quality parameters for process control. The analyser is fully contained in the single, heavily shielded enclosure that contains the radioactive source, gamma-ray detection assembly and all electronics. Industry standard communication outputs are available for interface with any plant control system or with Scantech's customised SUPERSCAN output display system installed in any suitable remote location.

Scantech's Analysers

Scantech provides the recycling, energy, mining, coal, steel and cement sectors with analysers for a wide range of applications and environments. Scantech can deliver online solutions that suit your process, reduce your operating costs and minimise Health, Safety and Environmental risks for your operations. Whether you need to monitor moisture, ash, sulphur, mineral or energy content we have the right application for your needs and budget. Real time analysis during the various phases of production provides operators with significant opportunities for plant optimisation and quality control. Over the past three decades, Scantech analysers have become a standard process control tool in the resources and recycling sectors. Scantech analysers are a fundamental component of companies' digital technology strategies utilising real time measurement systems to enable core processes to become fully integrated, autonomous, remote and automated.

Scantech Products

- **GEOSCAN-M On-belt Elemental Analyser for Minerals**
- **IRONSCAN 1500 On-belt Natural Gamma Iron Ore Analyser**
- **MINERALSCAN 1500 On-belt Natural Gamma Minerals Analyser**
- **CM100 On-belt Conductive Material Moisture Analyser**

- **GEOSCAN-R On-belt Elemental Analyser for Recycling**
- **TBM 280 Through Bale Moisture Monitor**

- **BALZSCAN 9500X On-belt Elemental Analyser for Alternative Fuels**
- **BALZSCAN 2100 On-belt Ash Analyser for Alternative Fuels**
- **TBM 280 BaleScan Through Bale Moisture Monitor for Alternative Fuels**

- **GEOSCAN-C On-belt Elemental Analyser for Cement**
- **BLENDSCAN Process Control for the Cement Industry**
- **TBM 260 ReadiMoist Through Bin Moisture Analyser for Concrete**

- **GEOSCAN-S On-belt Elemental Analyser for Steel**
- **CM 100-S On-belt Conductive Material Moisture Analyser**

- **COALSCAN 9500X On-belt Elemental Analyser for Coal**
- **COALSCAN 1500 On-belt Natural Gamma Ash Analyser**
- **COALSCAN 2100 On-belt Ash Analyser**
- **CIFA 350 Carbon in Fly Ash Analyser**

- **TBM 210/220/230/240 Through Belt Moisture Analysers**
- **TBM 260 Through Bin Moisture Analyser**
- **SIZESCAN Particle Size Distribution Analyser**

Specifications

Dimensions & Weight	
Length	1.00 m
Width	2.24 m
Height	2.04 m
Weight	2500 kg approx.
(Plus 1,200kg for shield extensions)	
Specifications subject to change without notice.	
Details shown for standard model. Large and Extra-Large sizes available.	

SCANTECH
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Scantech Products have Patented Technology & Registered Trademarks

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