

PARTICLE SIZE DISTRIBUTION ANALYSER



SizeScan™ Advantages

- Real-time Particle Size Distribution (PSD) analysis removes the need for sampling.
- State-of-the-art PSD algorithm.
- Direct PSD measurement of conveyed rock including volume, flow rate and speed, without the need for additional sensors.
- Not affected by dust.
- Does not need controlled lighting.
- Reliable results for all types of conveyed materials.
- Compensates for camera position and vibration, maintaining PSD accuracy.
- Adjustable frame simply bolts onto stringers.
- Easy once-off calibration process.
- Minimal maintenance.
- No interference with material flow or belt operation.
- Flexible plant interface options.
- Can be integrated with Scantech's other analysers.

SizeScan™ Applications

Real-time PSD analysis provides active process control to make decisions that maximise the value of the product and minimise operating and maintenance costs.

Typical applications include:

- Empty belt detection.
- Optimise blast fragmentation.
- Monitoring the feed to a SAG or AG mill (e.g. to ensure sufficient proportion of large particles to assist in grinding).
- Assessing crusher output (e.g. to ensure crushing / screening is working as expected).
- Monitoring the product.
- Optimising raw material mix for downstream processing.
- Monitoring HPGR feed to ensure fraction sizes are below allowable limits.
- Equipment damage prevention.

SizeScan™ Description

SizeScan utilises the latest in 3D infrared camera technology and proprietary imaging algorithms to measure PSD of conveyed bulk materials.

The state-of-the-art PSD algorithm is superior to traditional 'segmentation' methods that misdiagnose a bed of fines as large particles.

SizeScan uses technology developed by COREM in Quebec, Canada.



SizeScan in operation with invisible IR beam shown in red.
(Note: Safe Class 1 Laser Product.)

SizeScan's adjustable gantry frame suits a wide range of conveyor widths and material heights.



Scantech's Analysers

Scantech provides analysers to the minerals, cement, coal, energy, and steel sectors for a wide range of applications. We deliver solutions to improve process performance and reduce operating costs. Real time analysis of moisture, elemental composition and other quality control parameters in the process enables optimal

quality control. For over three decades, Scantech's analysers have been a standard process control tool in the resources industry. Scantech has an experienced in-house R&D team which ensures customers have robust and technically advanced products, and an extensive, highly qualified support network.



Scantech Products have Patented Technology & Registered Trademarks

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Scantech Products

- COALSCAN 1500 On-belt Natural Gamma Ash Analyser
- COALSCAN 2100 On-belt Ash / On-belt Ash and Moisture Analyser
- COALSCAN 9500X On-belt Elemental Analyser for Coal
- GEOSCAN On-belt Elemental Analyser for Cement or Minerals
- Readimoist Through Bin Moisture Analyser
- SizeScan Particle Size Distribution Analyser
- TBM Series On-belt Microwave Moisture Analyser
- CIFA 350 Carbon In Fly Ash Analyser
- CM 100 On-belt Conductive Material Moisture Analyser
- IRONSCAN 1500 On-belt Natural Gamma Iron Ore Analyser
- MINERALSCAN 1500 On-belt Natural Gamma Minerals Analyser

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