

# ScanMin SPARTA Analyser

## Particle size and oversize detection analyser

The ScanMin particle size analyser provides real-time automated analysis of particle size distribution on a conveyor belt. Product on the belt is brightly illuminated and photographed continuously by a high-speed, high-resolution camera. Images are analysed by the internal industrial processor to determine shape and size. The data is collected and tabulated into a database and presented as a set of appropriate graphs and charts. Information is presented live, as Bins, D curves or S Curves.

### **The SPARTA analyser is especially useful in material comminution circuits**

Results are used by plant managers to ensure product has been sufficiently crushed as well as stop crusher wear from going unnoticed. Results can also be fed into a control loop to control crusher apertures when dealing with diverse materials of different crushability. This saves on plant damage and downtime.

#### **Results reporting**

Results are accessed either directly from a SQL database or from an excel spreadsheet. The appropriate S-curves and histograms are made available to the client. Data is analysed in real-time and available instantaneously. Product photos are also stored allowing for later checking and verification.

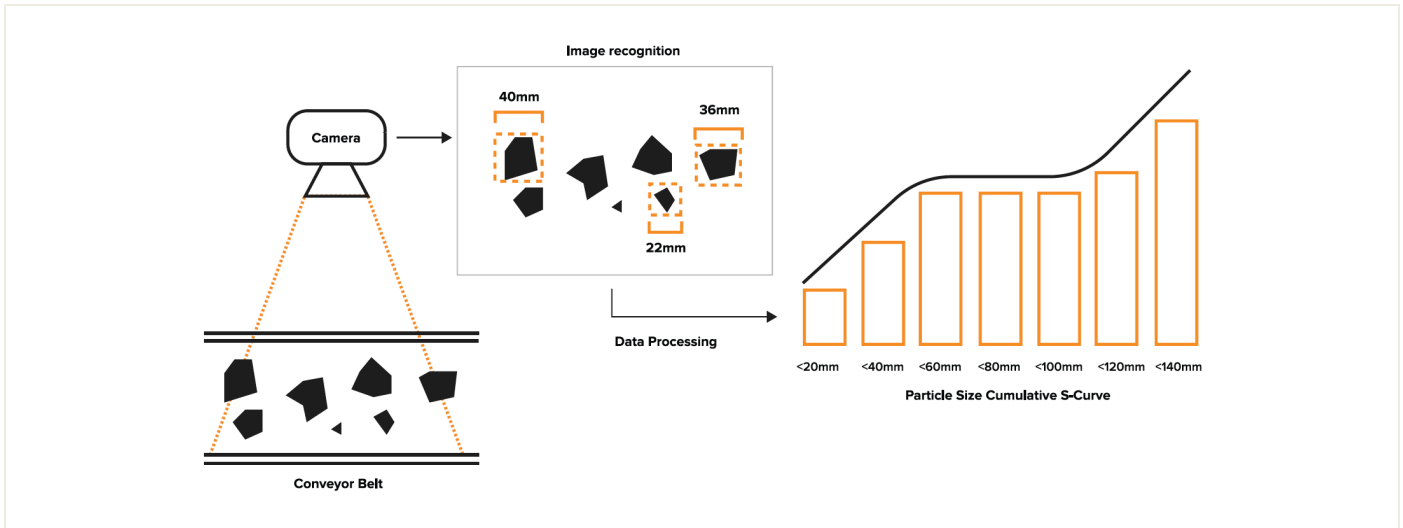
#### **Possible applications**

- Mill feed monitoring
- Crusher integrity and wear detection
- Increased efficiency
- Improved mineral extraction
- Closed loop control
- Performance monitoring
- Screen Protection integrity and wear detection
- Oversize Detection

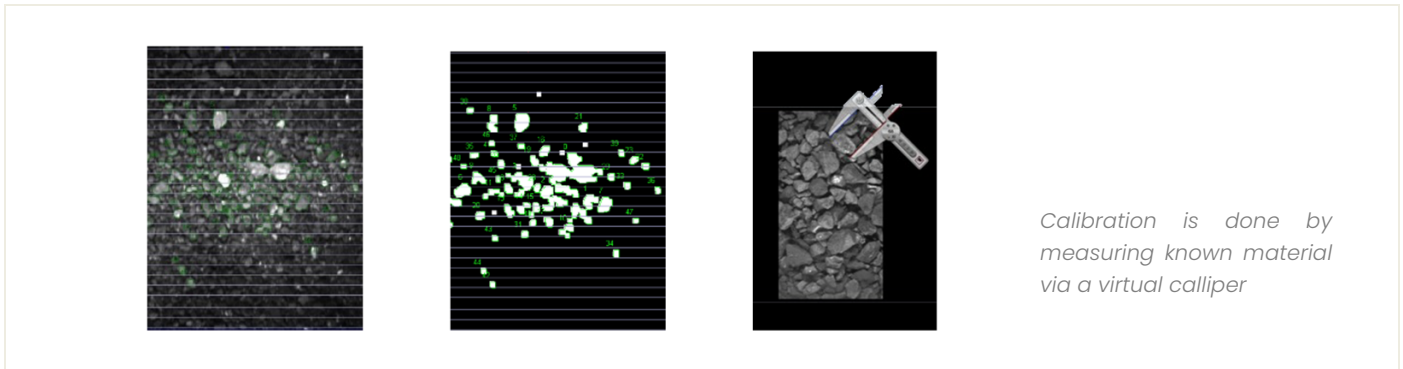
#### **Key features**

- Rapid online results
- Continuous analysis
- Crusher performance monitoring
- Final product control
- Rugged design and construction
- Remote access and data availability

## Technology



## Calibration



## Technical specifications

Conveyor width	Will fit almost any conveyor application
Bed depth	Up to 400mm
Material size	12mm - 300mm
Electrical	110VAC - 240VAC (1500VA)
Inputs	Belt run
Outputs	EthernetIP, Modbus, Profibus, OPC etc. Analysis results and status data are accessed on the industrial processor. Plant interface protocols are also available.
IP rating	IP65

## CONTACT US

Office phone:  
+27 (0) 11 472-3000

Office fax:  
+27 (0) 11 472-6787

Web:  
[www.scanmin.io](http://www.scanmin.io)

Albert Heydenrych :  
[albert@scanmin.co.za](mailto:albert@scanmin.co.za) | +27 (0) 82 775 3950

Mahendra Gangai:  
[mahendra@scanmin.co.za](mailto:mahendra@scanmin.co.za) | +27 (0) 72 491 9974

General email:  
[info@scanmin.co.za](mailto:info@scanmin.co.za)



# ONLINE PROCESS CONTROL SOLUTIONS