



C

Color sensor

M

Metal sensor

N

NIR sensor

ANALYSIS SYSTEM

FLAKE SCAN

Quality analysis of plastic flakes
and ground materials – within minutes

Efficient quality determination of plastic flakes and ground materials

For manufacturers and processors of plastics, ensuring consistently high material quality is a decisive profitability factor. Our FLAKE SCAN analysis system was explicitly developed for use in plastics recycling and processing and enables reliable random sample analysis for plastic types, colors and metal contaminants within minutes

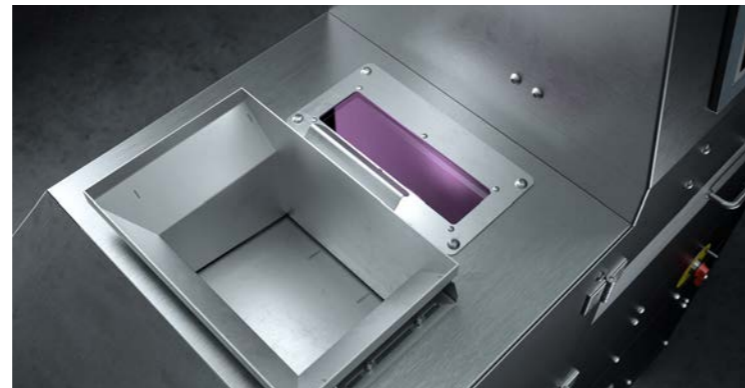


Your challenge ...

Pure recyclate is the be-all and end-all- for both manufacturers and processors. Depending on the use of the recyclate and for the evaluation of the respective recycling sorting process, the quality of the material often has to be assessed with elaborate manual, visual or thermal random sample analyses. This is not only associated with additional effort and high costs, the samples are also not very representative.

... our solution

With our clever FLAKE SCAN material analysis system, the quality of plastic flakes and regrinds can be determined efficiently and precisely- within just a few minutes. Up to three integrated sensors reliably analyze material samples according to plastic types, colors and metal foreign bodies. This enables a fast and reliable decision on the usability of the examined material.



Efficient

Minute-by-minute sample analysis of plastic material by plastic types, colors and metal foreign bodies, as well as rapid evaluation of the composition of plastic batches

Precise

Highly precise, automatic and reproducible analysis of material samples with the aid of up to three integrated sensors:

- C Color sensor
- M Metal sensor
- N Nearinfrared sensor (NIR)

Profitable

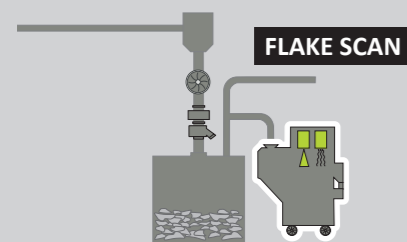
With our FLAKE SCAN you can save time and money. The effort for a manual, visual and thermal examination is significantly reduced. In addition, a quick and reliable decision can be made on the usability of plastic flakes and regrinds - for a profitable use of plastic recyclate.

Devices features

- Analysis of plastic flakes and regrinds (e.g. PET, PP, HDPE or mixed plastic flakes) and their material compositions with regard to plastic types, colors and metal foreign bodies
- Combination of up to three integrated sensors: Color sensor, near-infrared sensor, metal sensor (optional)
- Sample volume: up to 8 liters for representative results
- Throughput: up to 20 kg/h
- Simple operation via touchscreen
- Automatic report output, archiving of analysis results and saving data



Application areas



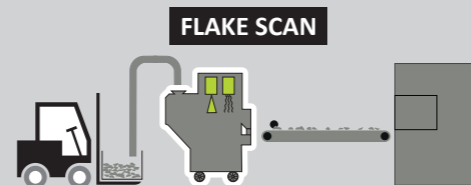
Outgoing goods

Recycler

Plastic recyclers use our FLAKE SCAN in the outgoing goods inspection and can thus ensure that only pure plastic flakes and regrinds go for further processing.

Producers / Processors

Plastics processors use the FLAKE SCAN to analyze the purchased material before it is processed into new granules/products.



Incoming goods

Different types of materials

With the FLAKE SCAN, recyclers and plastics processors can analyze samples of different plastic materials in a matter of minutes.



PET Flakes



HDPE Flakes



PE/PP Grist

Manual analysis vs. FLAKE SCAN

Criteria	Manual analysis	FLAKE SCAN
High throughput	✗	✓
Efficient analysis times	✗	✓
Larger sample quantity / day	✗	✓
Larger sample quantity	✗	✓
Reliable analysis accuracy	✗	✓
High R�representativit�at	✗	✓

Your advantages

- Higher representativeness of the results
- Less manpower required and time saved
- 100% of sample analysis
- Better insight into material unit
- Facilitates decision on recycle application

More information

<https://www.sesotec.com/emea/de/lp/flake-scan>



SesoDesk-operating software

Analysis of plastic types, colors and metal foreign bodies

Our SesoDesk operating software allows the analysis results to be displayed either in a table or in diagrams. If a

previously defined limit for a color or plastic is exceeded, this is marked accordingly. In addition, the number of possible metal parts is displayed.

Image description: SesoDesk-operating software

The screenshot shows the SesoDesk software interface. At the top, there is a navigation bar with icons for Analysis, Export, Load, History, Settings, and Help. Below this, there are two main analysis panels. The left panel is for 'Color' analysis, showing a list of colors with their 'Good' status (indicated by a green dot), 'Weight-%', 'Limit', and 'Status'. The right panel is for 'Material' analysis, showing a list of materials with their 'Good' status, 'Weight- PPM', 'Limit', and 'Status'. At the bottom, there is a control bar with 'Start' and 'Stop' buttons, a status indicator 'Waiting for start', and a message 'Product changed, start new analysis'.

Technical data

Throughput up to (kg/h)*	20
Suitable grain size	2 - 20 mm
Power (max. KVA)	0.24
Temperature range	+5°C - +40°C
Weight	291 kg
Electrical connection	Power connection cable 3 x 1.5 mm ²
Electric fuse	10A
Protection class	IP 54
Rated current (max. A)	1

*The actual values that can be achieved may deviate from those specified and depend on the properties of the material as well as the external influences and conditions at the site.

Service

Remote Access

For troubleshooting, our service technicians can easily access your machine via Ethernet.

Remote support with augmented reality

For troubleshooting via video support through our support center, simply download a free app and send us the access data.

Service Hotline Sorting

+49 (0) 8554 - 308 129
service.sorting@sesotec.com