sesotec

sesotec FLAKE SCAN

Color

Color sensor

Material

NIR sensor

Metal

Metal 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

PLASTICS RECYCLING AWARDS EUROPE 2021 FINALIST

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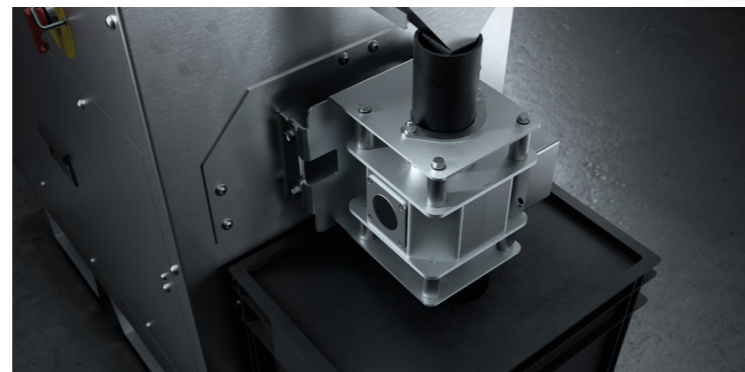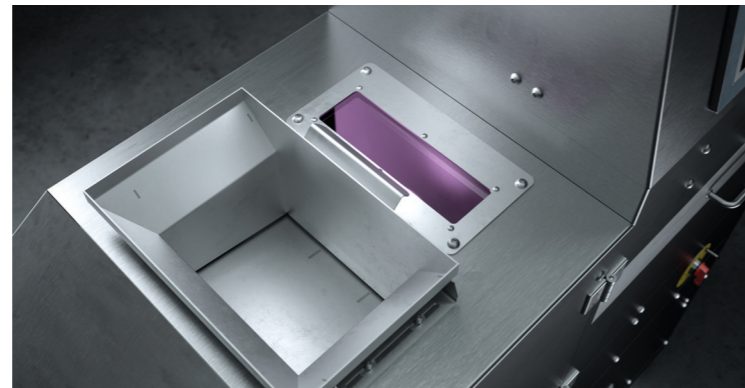
Efficient
Minute-by-minute sample analysis of plastic material by plastic types, colors and metal foreign bodies, as well as rapid evaluation of the composition of plastic batches

Precise
Highly precise, automatic and reproducible analysis of material samples with the aid of up to three integrated sensors:
- Color sensor
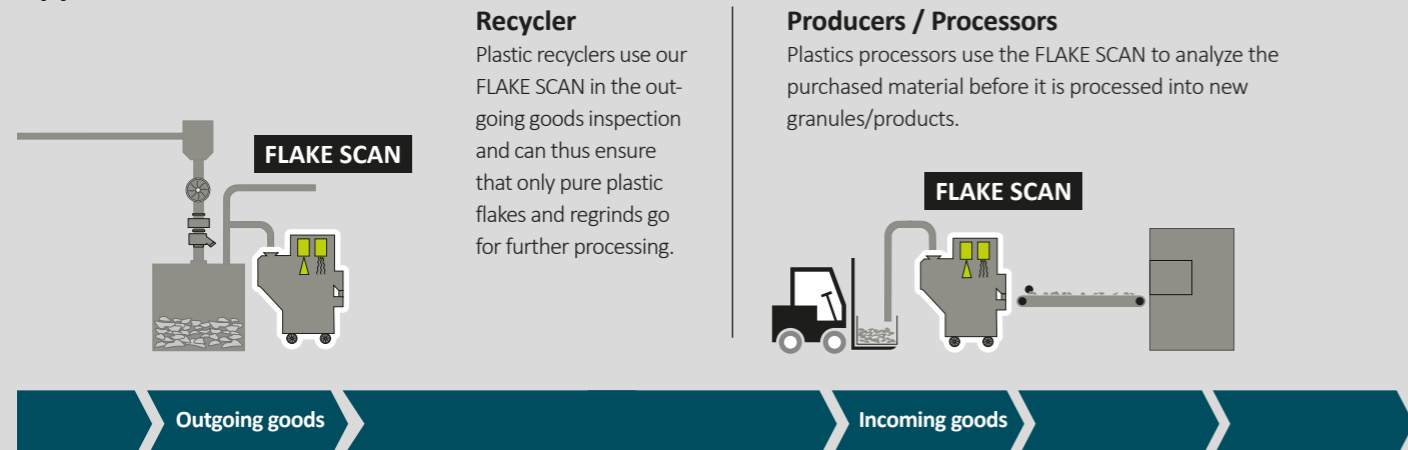- Near Infrared Sensor (NIR)
- Metal sensor (optional)

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.

sesotec FLAKE SCAN

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

FLAKE SCAN

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.

FLAKE SCAN

Outgoing goods | 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 Räpresentativität	✗	✓

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 recyclate applicability

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

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 mm²
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

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