

RTT System GmbH, a company based in Zittau, Saxony, is the second spin-off of the RTT Robotertechnik-TRANSFER GmbH, which is an innovative manufacturer of special-purpose machines with 25 years of tradition.


The RTT Robotertechnik-TRANSFER GmbH, the eldest part of the company, deals with the automation of assembly and manufacturing processes to optimize the production of the clients with specially designed applications.

To concentrate on specific future markets, fully developed equipment technologies have been taken repeatedly from customized special-purpose machine engineering. In 1998, the RTT Steinert GmbH emerges from a special-purpose machine. This part of the company develops and manufactures optical sorting machines for the separation of synthetic material and paper. It has become successfully all over the world in the field of waste recycling. The RTT System GmbH, which was founded in 2010, takes analysis and detection tasks beyond the sorting technology sector.

After the redevelopment and multiple installations of bulk vending machines for beverage packaging, the RTT System GmbH recently developed a new type of machine for the quality control and material analysis of small bulk goods. This product line enables the classification of various materials, which are color- and material-coded.

The “flakeanalyser” was designed especially for analysis tasks in the field of recyclates and mineral fine material.

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flakeanalyser

Hyperspectral Imaging Sensorsystem



flakeanalyser

The **flakeanalyser** is a near-infrared (NIR) based device for fast and non-destructive quality control and characterization of plastic grains.

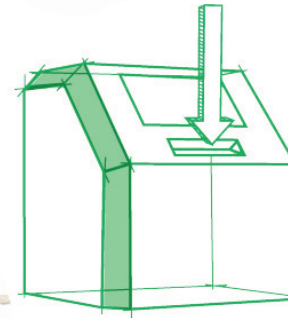
- Material and grain size distribution statistics
- Database for all general synthetic materials
- Adjustable to different kinds of material
- Convenient operation via touchscreen
- Standard interfaces
- Compatible for remote servicing via Internet
- Compact construction
- State-of-the-art sensor technology
- Designed for a large volume of samples up to 5 liters

Examples

- Polyolefins
- Plastics in electronic waste
- PET-Flakes

Fill

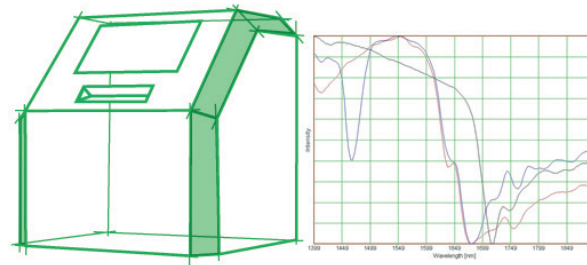
The flakes are fed via opening.



Analysis

via near-infrared spectroscopy

Sensor system with high-resolution hyper-spectral imaging technology which records characteristic spectra.

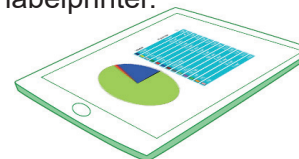


Return

The flakes are collected at the bottom of the device after analysis.

Measuring results

Results easily available in Excel format or for email messaging and labelprinter.



Technical Data

Processing Material: Synthetic substance

Flake Size: 2 ... 30 mm

Sample Volume: up to 5 liters

Mass Flow Rate: app. 200 g / min

Weight: app. 80 kg

Dimensions: 995 x 770 x 800 mm (WxHxD)

Power Rating: 230 VAC, 50 Hz ca. 0,9 kW

User Interface

