



UNISORT Finealyse

> with NIR or colour sorting in fine-grain materials

NIR- or colour sorting of granulated plastic, ground materials or metals in the form of fine-grain materials

Reclaiming pure secondary raw materials without contaminants is a complex task. Achieving high-value recycling requires that even the smallest size particles are reliably separated according to their types and colours. The UNISORT Finealyse is right for your fine-grain materials, whether you're using NIR or colour sorting of plastics, metals or minerals.

Your advantages

- Fraction sizes:
3 – 30 mm for colour sorting
5 – 30 mm for NIR sorting
- Adaptable for the widest range of materials to be sorted
- Spatially precise recognition and discharge of the material
- Easy-to-use touchscreen for simplest operation, flexible setting of sorting parameters, comprehensive statistics, and further data on the sorting process
- Remote maintenance via Internet or UMTS for fast support
- Compact construction
- Latest sensor technology

The UNISORT Finealyse has been specially developed for sorting finegrain materials – a demanding application which requires both high purity and high throughput. The material to be sorted is evenly accelerated to a speed of more than 3 m/s by the belt. The material to be sorted passes the recognition plane and is recognized independently of its ballistic properties and according to material (using NIR) or colour before being precisely separated by the high-speed valve strip.

The latest developments in the area of sensor and computing technology make possible fast and high-resolution detection of even the smallest particle. NIR or colour cameras are used depending on the application. As a result, the system can be used for your metal, plastic and mineral sorting applications.

Technical data

- Feed material: plastic flakes, nonferrous, heavy metals, electronic scrap, fine-grain mineral materials
- Throughput per module: approx. 0.4–2 t/h, depending on the material to be sorted
- Degree of separation: 85 % or better, depending on previous contamination
- Purity: 90 % or better, depending on previous contamination
- Unit size (h,w,l): 2,000 x 1,500 x 4,100 mm
- Weight: 1,700 kg
- Installed load: approx. 11 kW
- Air requirement: approx. 1,5 Nm³/min, depending on the material to be sorted
- Fraction size: 3 – 30 mm for colour sorting, 5 – 30 mm for NIR sorting
- Belt speed: 3,0 – 4,5 m/sec.
- Sorting width: 750 mm
- Detections: > 24 million/sec. for colour sorting, > 27 million/sec. for NIR sorting
- Nozzle bar: 120 high-speed valves





Magnet and sensor sorting for plastic



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Subject to technical modifications.



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