



UNISORT Flake

> 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 Flake is right for your fine-grain materials, whether you're using NIR or colour sorting of plastics, metals or minerals.

Your advantages

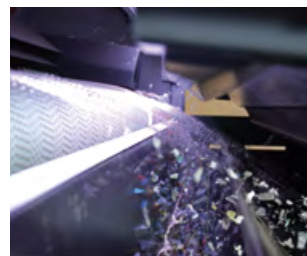
- Fraction sizes:
3 – 30 mm for colour sorting
5 – 30 mm for NIR sorting
- Adaptable for the widest range of materials to be sorted
- Spatially precise recognition and discharge of the material
- Easy-to-use touchscreen for simplest operation, flexible setting of sorting parameters, comprehensive statistics,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

The UNISORT Flake has been specially developed for sorting fine-grain 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



STEINERT Elektromagnetbau GmbH

Widdersdorfer Straße 329–331
50933 Köln

Germany

Phone: +49 221 4984-0
Fax: +49 221 4984-102
E-Mail: sales@steinert.de
www.steinert.de

Tochtergesellschaften

Subsidiaries

RTT STEINERT GmbH

Hirschfelder Ring 9
D-02763 Zittau
Germany
Phone: +49 3583 540-840
Fax: +49 3583 540-8444
E-Mail: sales@steinert.de
www.unisort.de

North America

STEINERT US Inc.
285 Shorland Drive
Walton, KY 41094
U.S.A.
Phone: +1 800 595-4014
Fax: +1 800 511-8714
E-Mail: sales@steinertus.com
www.steinertus.com

Australia/Asia

STEINERT Australia Pty. Ltd.
14 Longstaff Road
VIC 3153, Bayswater
Australia
Phone: +61 3 8720-0800
Fax: +61 3 8720-0888
E-Mail: sales@steinert.com.au
www.steinert.com.au

Japan

STEINERT Japan Co. Ltd
703 President Roppongi
3-2-16, Nishi-Azabu
Minato-ku, Tokyo 106-0031
Japan
Phone: +81 3-6804-5607
Fax: +81 3-6804-5608
E-Mail: sales@steinert.jp
www.steinert.jp

South America

STEINERT Latinoamericana Ltda.
Av. Heráclito Mourço de Miranda, 2080
Bairro Castelo
31330-382 Belo Horizonte
Brazil
Phone: +55 31 3372-7560
Fax: +55 31 3372-6995
E-Mail: steinert@steinert.com.br
www.steinert.com.br

Niederlassungen

Branches

China

STEINERT China Ltd.
Room 1009, Building B,
Jinhai Wealth Commercial Centre,
Baiziwaxili, Chaoyang District,
Beijing 100124
China
Phone: +86 1059694456
Fax: +86 1059694459
E-Mail: china@steinert.de
www.steinertchina.com.cn

Singapore

STEINERT Asia
33 Maude Road #02-01
Singapore 208344
Phone: +65 62939556
Fax: +65 62988231
E-Mail: singapore@steinert.de
www.steinertasia.com

Africa

STEINERT Africa
IMS Engineering (Pty) Ltd
10 Derrick Road, Spartan
Kempton Park, 1620
Republic of South Africa
Phone: +27 10 001 8200
Fax: +27 11 970 3200
E-Mail: south-africa@steinert.de
www.imsengineering.co.za

Subject to technical modifications.



STEINERT dealers and consultants in your area: