



## UNISORT Film

> Efficient sorting of packaging material

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Heavy demands are imposed on today's sorting systems deployed in the recycling industry. As plant capacities are ever-increasing as per their throughput rates, specifications are becoming more and more stringent as applied to sorting performance expectations. These aspects have an impact on sensor technology as well as on machine sorting functions. In addition, users of processing and sorting plants are constantly required to respond to improved recycling rates whilst being called on to reduce the overall volume of waste following processing.

Sensor technology potential in the recycling sector - or to be more precise, detection of the wide variety of different plastic materials emanating from different material-flow sources - have remained largely untapped to date. The application of new technologies provides far better results than have been seen in the past.

The innovative UNISORT Film from RTT STEINERT GmbH has been designed specifically for improving the product potential for this sector. The UNISORT Film has succeeded in developing the state-of-the-art Active Object Control-System (AOC), originally developed for fine-product sorting on the UNISORT Flake range for larger particle sizes.

As in the case of small objects, the sorting of buoyant flat objects is governed by the motion behavior of the material being sorted in terms of material detection and ejection - having a substantial impact on purity and efficiency.

AOC is a stabilisation system catering for defined motion paths controlling the material sorted, hence delivering a distinct improvement in quality of the final product. Stable motion of the objects even at double conveying speed results in higher throughput rates while enhancing efficiency of the system.

As on all NIR systems produced by UNISORT, the UNISORT Film system is equipped with ultra-modern HSI (Hyper Spectral Imaging) camera technology, ensuring an exceptionally high degree of flexibility and future sustainability.

### Applications

On account of its light weight and high space occupancy, plastic film sorted on a standard sorting machine is hindered by restrictions and reduced conveyor speeds. The AOC system engineered by RTT STEINERT, and applied to the UNISORT Film, facilitates consid-

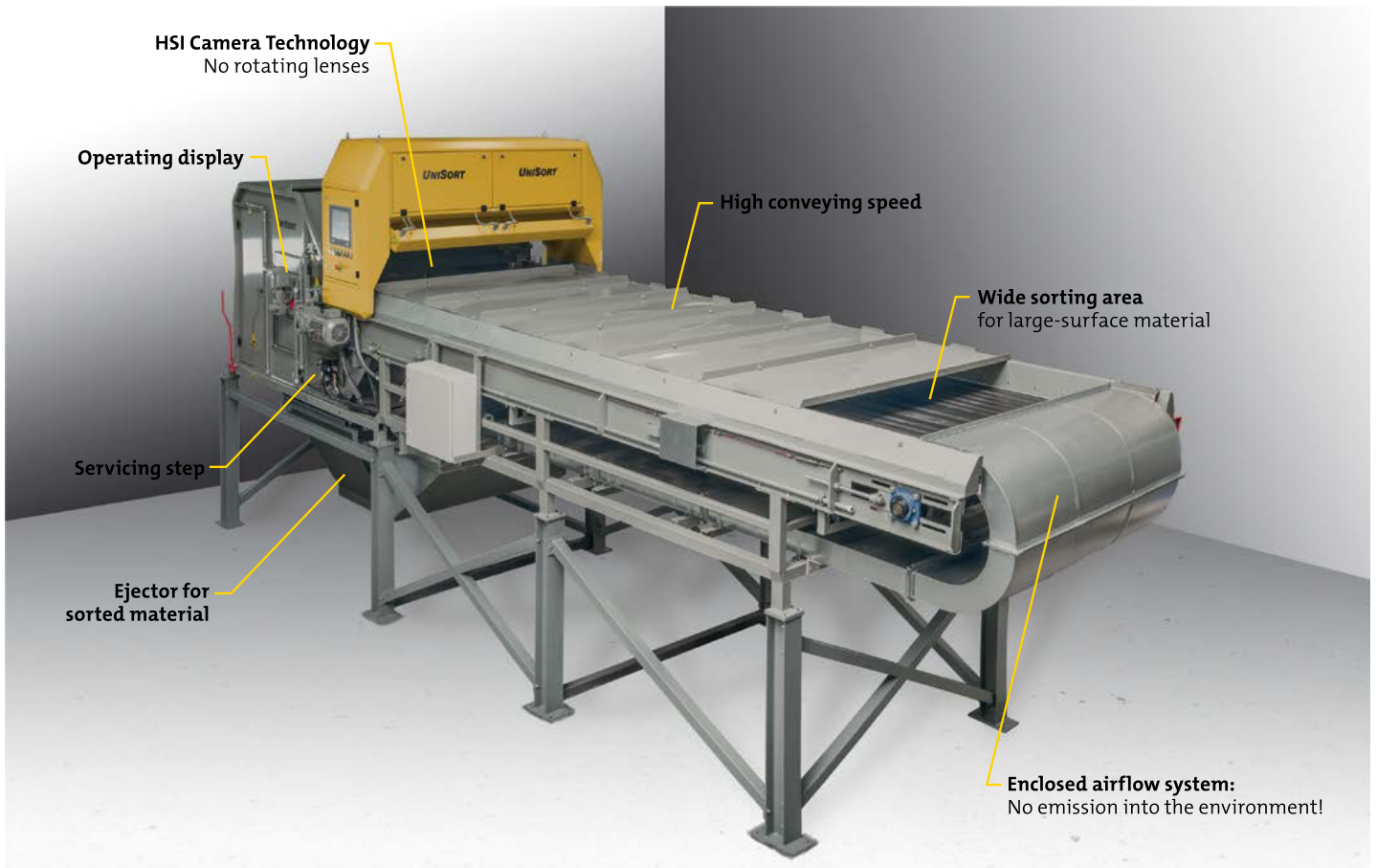
erably higher throughput rates combined with improved sorting quality. This is the only way of sorting buoyant objects, such as film, on feasible lines at all. UNISORT Film is universally suitable for all functions involving the sorting of air worthy objects, e.g. paper and film, including agricultural film.

### Advantages

Automatic sorting of the film fractions with significantly higher throughput rate and substantially improved sorting results compared to standard machines not equipped with AOC. UNISORT Film opens the door to sorting functions hitherto incapable of being implemented economically applying standard technology.

**Enclosed airflow system prevents emission into the environment!**





**Material that can be sorted**

- Conventional PVC film
- Bio-based film
- Biodegradable film
- Agricultural film
- Paper

Today, plastic film is one of the world's essential raw materials and is recycled on a large scale.

New technologies make it possible to attain far higher recycling rates both now and in the future.



**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](http://www.steinert.de)

**Tochtergesellschaften**

Subsidiaries

**RTT STEINERT GmbH**

Hirschfelder Ring 9  
02763 Zittau  
Germany  
Phone: +49 3583 540-840  
Fax: +49 3583 540-8444  
E-Mail: sales@steinert.de  
[www.unisort.de](http://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](http://www.steinertus.com)

**Australia/South East 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](http://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 3-6447-0611  
Fax: +81 3-6447-0610  
E-Mail: sales@steinert.jp  
[www.steinert.jp](http://www.steinert.jp)

**South America**

STEINERT Latinoamericana Ltda.  
Av. Heráclito Mourão 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](http://www.steinert.com.br)

**Niederlassungen**

Branches

**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](http://www.imsengineering.co.za)

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STEINERT dealers and consultants in your area:

