



## Wood Separation

UNISORT PR

> Excellent possibilities with the UNISORT PR in ELV recycling plants

# High efficient wood separation with UNISORT PR

The process of dense media separation is in use in end-of-life vehicle (ELV) recycling plants in order to create a recyclable plastic fraction out of the auto shredder residues (ASR) fraction in the downstream operation of a shredding plant.

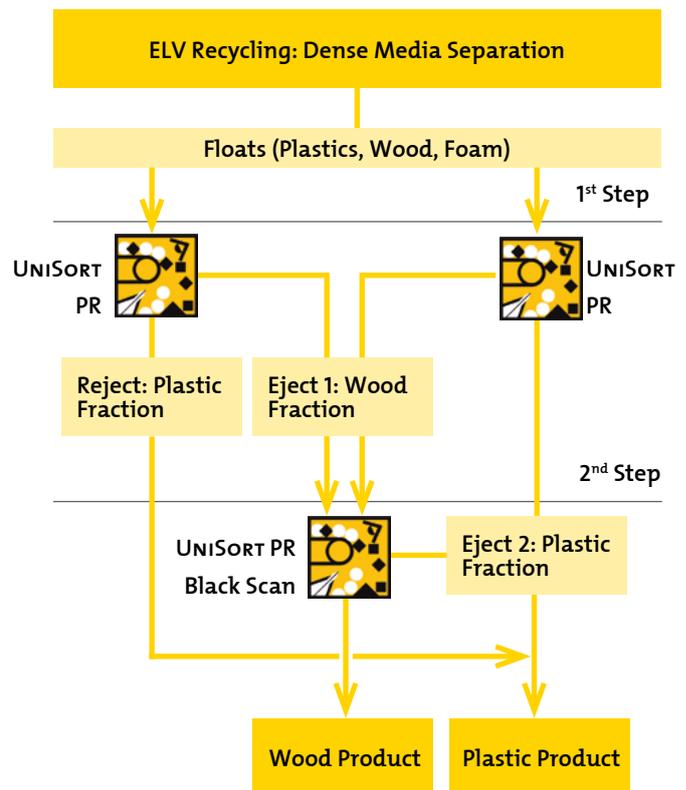
Due to the character of the infeed material and the upstream located material recovery steps, the float fraction of such an dense media operation contains a high percentage (10-20 Ma. - %) of wood.

In order to get a plastic product, which can be further processed and raffinated, the wood content need to be removed with more than 95 % efficiency.

In the past those high recover rates were not achievable due to the dark and wet nature of the existing wood. The UNISORT PR technology offers the performance to detect even dark and wet wood parts, via near infrared spectroscopy, based on line scan detection.

Due to its high detection rate of more than 27 million detections per second and the high spectral resolution of 256 Pixel (Hyper Spectral Imaging technology), the UNISORT PR technology achieves hit rates of more than 97 %.

In combination with the STEINERT Black Scan technology STEINERT offers a two stage process which is able to achive a plastic product quality of more than 98 %.



## UNISORT PR for wood separation

- UNISORT PR Line Scan technology
- High detection rate with > 27 million detections per second
- High spectral resolution of 256 Pixel
- High efficient even for dark and wet wood parts
- Working width available between 1 m and 2,8 m
- Flexible and easy to handle via touchscreen



**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](mailto:sales@steinert.de)  
[www.steinert.de](http://www.steinert.de)