



SORTEX[®]
PolarVision[™]
technology.

Unprecedented foreign
material detection in
Fruit & Vegetables
sorting.

SORTEX® PolarVision™ technology. Safeguarding fruit and vegetable processing.

Introducing SORTEX PolarVision™ - the specialist detection system from Bühler combining two pioneering proprietary technologies for unprecedented foreign material detection.

Equipped with state-of-the-art PolarCam™ technology to target the spectral and spatial differences between good product and foreign materials and high definition InGaAs^{HD} cameras to detect foreign materials in the shortwave infrared spectrum which would be invisible to a standard colour camera.

Combine this with all-new Ejector+ technology, which removes heavier foreign materials with pinpoint precision for your safest and cleanest produce yet.

PolarCam™ is now available as an upgrade on the SORTEX E range of optical sorters and the all-new SORTEX F range – the industry's most hygienic sorter, exclusively designed for frozen fruit and vegetable processors.

- Unprecedented foreign material detection
- Heavier product + FM rejection
- Enhanced plastic detection

A new concept for foreign material detection

SORTEX PolarCam™ technology is part of a new family of foreign material (FM) detection solutions and the latest technological breakthrough in Bühler's optical sorting portfolio. The result of substantial research and investment to enhance FM detection, SORTEX PolarCam™ technology offers processors market-leading removal of traditionally difficult-to-detect objects such as snails, glass, wood and black plastics.

Exploiting spectral and spatial differences

The innovative SORTEX PolarCam™ detection technology has been purposely engineered to target the spectral and spatial characteristics between fruit and vegetable produce and hazardous foreign materials for a higher removal efficiency than ever before. The unique high definition technology minimises the loss of valuable produce by minimising false rejections.



Green beans



Carrots



Cube potatoes



Peppers



Corn



Peas



Mixed vegetables



Strawberries



Raspberries



Cranberries

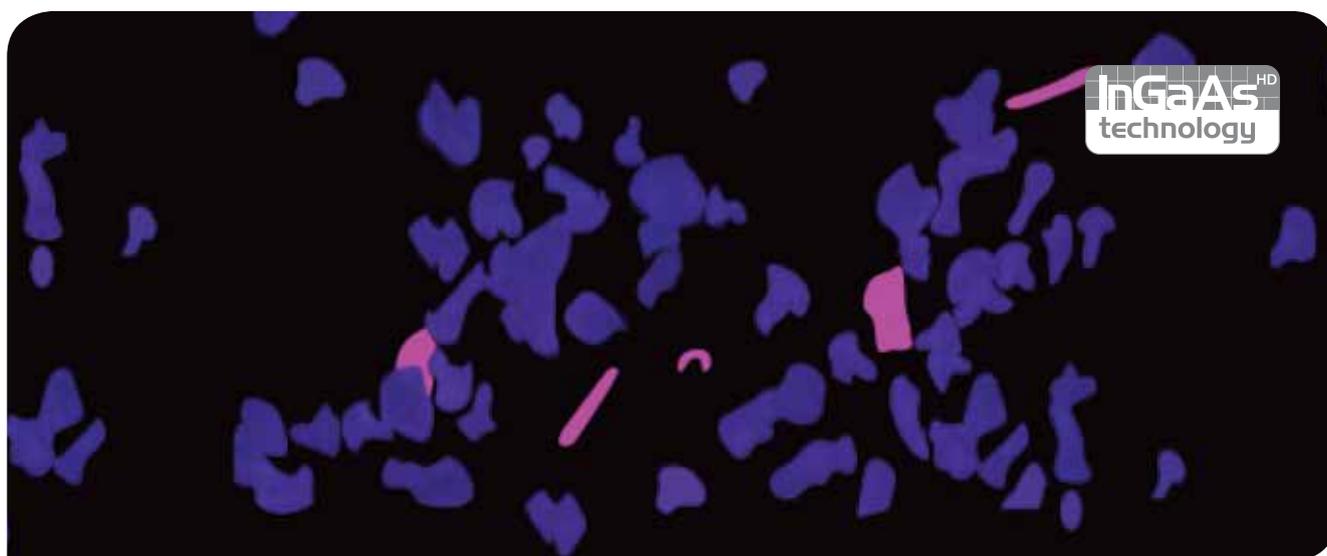


Blueberries



Red currants

High definition InGaAs^{HD} detection technology. **Next generation shortwave infrared sorting.**



High definition, double the resolution

Bühler's high definition infrared detection technology, optimised for enhanced plastic detection, now comes with double the resolution to detect foreign materials down to the half the size. With twice as many pixels, new InGaAs^{HD} camera technology enables processors to remove same-colour foreign materials such as dry wood from potatoes and red plastics from raspberries for their cleanest and safest produce yet.

Adding another layer of assurance

New InGaAs^{HD} compliments SORTEX PolarCam™ technology by detecting hazardous foreign materials that cannot be seen in the visible spectrum – offering processors the most advanced foreign material detection system with an added layer of assurance for increased product quality and safety.



Wood

Red plastic

White plastic

Blue plastic

Green plastic

Stones

Ejector+ technology. **Bühler's most powerful ejectors.**



Bühler Efficiency

All-new Ejector+ technology Bühler's most powerful ejectors, which remove heavier foreign materials with pinpoint precision for your safest and cleanest produce yet. Available as an option on the SORTEX® F range.

Bühler ejectors are custom designed and precision built for high speed, easy serviceability and long life. Through constant development, the ejectors' life span has been increased significantly. This efficiency of operation and maintenance enables the low cost of ownership of SORTEX optical sorters.

Both the standard ejectors and Ejector+ work with the SmartEject technology which combines shape and dimension sorting allowing air ejectors to target the object and not just the defective part of that object. E.g. it will aim at the whole green bean and not just the stalk attached to one end.



Large clumps



Glass



Stones

SORTEX® PolarCam™.

A new era for foreign material detection.

SORTEX PolarVision™ technology, a combination of two pioneering detection technologies is available as an upgrade to existing SORTEX E1D machines or available as an option on all new SORTEX E1D and SORTEX F optical sorters.



SORTEX E1D



SORTEX F

Product options

	SORTEX E1D	SORTEX F
SORTEX PolarVision™	●	●
Ejector+	Coming soon	●
InGaAs ^{HD}	●	●
PROfile™ Technology	■	■
LED Lighting		■
IR Lighting	■	●
Remote Access	●	●
SORTEX ProSortX™	■	■
TotalCare Performance Protection	●	●
Available sizes	600mm chute	600mm and 1200mm chute options

■ Standard ● Optional

*InGaAs^{HD} comes as standard when SORTEX PolarVision™ is selected

SORTEX® Customer Care.

Secure tomorrow's profits today.

Bühler customers have access to a network of over 140 Sales and Service offices worldwide offering customisable service packages, stock of spares and upgrade kits, to ensure your optical sorters perform at their maximum possible efficiency. Our numerous competence centres and regional offices offer training courses, application support and product trials, check online for details.

TotalCare™

Create a customised service package, composed of individual service features from the list below. From scheduled visits, downtime cover to refurbishments and preventative maintenance - basic to fully comprehensive. Designed to ensure your optical sorters continue to operate at peak performance.

TotalCare Protect

Minimise Downtime

Based on an agreed number of annual visits, Bühler engineers will replace key wear parts, provide consultation and advise on future maintenance requirements.

TotalCare Perform

Performance Optimisation

Aspiring to keep downtime to under 24 hours, sorters will be safeguarded against any failed components. Bühler engineers will ensure first-rate performance once the repair is carried out.

TotalCare PerformPLUS

Ejector Refurbishment

Making certain that sorters are running at peak performance, ejectors are replaced when the stipulated life-cycle is reached. Performance is maintained for the future.

TotalCare Anyware

Supervised Functionality

Provides a working record of operational information as well as reports that enable machine health to be monitored and preventative maintenance scheduled.

TotalCare AnywarePRO

Remote Access and Assistance

Sorter performance can be viewed remotely by customers and Bühler engineers. Faults can be diagnosed and performance optimised in any location using a laptop, tablet or smart phone.

All contract options are available for variable durations.

SORTEX® Spare Parts Promise

Customer satisfaction is our priority. This is why we strive to deliver both spare and wear parts within 48 hours - maximising your profitability.

SORTEX® Upgrade Kits

Bühler designed various upgrade kits, for existing customers who are seeking to upgrade their sorters with an additional module, new technology features or processing software.

SORTEX® Spare Parts

Various kits to suit different optical sorters are available for customers who wish to have spare parts available on site.

Optical Sorting Training Courses

Available from various regional Bühler locations. From operator to management, basic to advanced, speak to your local representative for course selection and availability.

© The Bühler Group 2018

SORTEX® is an internationally registered
trademark of the Bühler Group

Bühler AG

Gupfenstrasse 5
9240 Uzwil
Switzerland
T +41 (0)71 955 11 11
F +41 (0)71 955 33 79

Business Unit SORTEX®

20 Atlantis Avenue
London E16 2BF
United Kingdom
T +44 (0)20 7055 7777
F +44 (0)20 7055 7700
sortexsales@buhlergroup.com
www.buhlergroup.com/polarvision

SO 31622 en 0218 Z&B 180307