PET processing from Bühler.  
Changing the dynamics of PET recycling.
PET Processing.

Leading in Optimised PET Processing.

Equipment and solutions.

Bühler in partnership with processors 3

1. The Bühler Optical Sorting Station 4
2. SORTEX A ColorVision™ 6
3. SORTEX E PolyVision™ 8
4. Technologies 10
5. Model variants and specifications 12

Global Coverage 14
Bühler in partnership with recyclers.  
An integral part of the PET processing industry.

At the forefront of PET recycling. Bühler is renowned worldwide for supplying industry leading optical sorting solutions that maximise not only your processing capacities but also the recovery and purity of your recycled PET flakes.

With the most flexible and versatile optical sorting portfolio, Bühler can supply a truly dedicated one-stop optical sorting solution that targets all of your major recycling concerns. From colour, polymer, metal and foreign material removal, PET processors can be confident of the highest grade PET flakes – every time.

With the SORTEX A ColorVision™ and SORTEX E PolyVision™ combined, there is no compromise. The only optical sorting solution you need brings together the most advanced SORTEX technologies including high definition visible cameras for exceptional colour and foreign material removal and ground-breaking SORTEX PolyVision™ technology for the ultimate polymer sort.

With dedicated and precise detection and targeting systems, individual defect ejection is not compromised whilst high precision ejectors ensure your valuable flakes are protected at all times.

- One-stop PET flake sorting solution for colour, polymer and foreign material removal.
- Delivering higher grade PET flakes, consistently.
- Maximising capacities, recovery and profitability.
All from one supplier.
The Bühler Optical Sorting Station.

Fines separation
- Dust
- Lose debris
- Fine materials

Metal removal
- Ferrous metals
- Non-ferrous metals
Bühler’s complete PET sorting solution can also be supplied in a full turnkey optical sorting station that is tailored to your specific needs, including all auxiliary equipment in addition to valuable automation, engineering and service expertise.

Colour and foreign material removal

- Off-colour flakes
- Opaque flakes
- Translucent flakes
- Paper
- Wood
- Stones
- Ferrous and non-ferrous metals

Non-PET removal

- Removes PVC, PP and PE
- Reduces other polymers including PS, PA, POM, Silicon and PETG
2 Product highlight.
**SORTEX A ColorVision™.**

The SORTEX A ColorVision™ provides PET recyclers with dedicated customised options to handle the unique and most complex of colour sorts. Showcasing Bühler innovation with advanced inspection and lighting systems, this state-of-the-art technology provides the ultimate PET flake sorting solution, whatever the difficulty of the application.

**Empowering sorting performance**
The SORTEX A range inspection technologies provide the most profitable sorting performance in removing subtle colour defects and foreign material, as well as providing a uniform appearance with colour, size and shape grading. Featuring high powered ejectors and simultaneous resorting capabilities, recyclers can be sure of the most accurate product rejection with industry leading reject concentration - maximising both recovery and profitability.

**Ensuring consistent reliable operation**
The SORTEX A range is also equipped with proprietary operating software including auto-calibration and product tracking to ensure a consistent sorting performance - all day, every day. The optical and control cabinets (IP5X) are also sealed to maintain a stable and reliable operation in even the most dusty of environments.

**Optimising productivity, lowering cost of ownership**
Featuring Broadband LED lighting and long-life serviceable ejectors, the SORTEX A range optimises productivity and lowers the cost of ownership. The automatic filter changer and different product modes handle multiple products, while the quick chute release system allows the operator to remove chutes without the need to re-align the optics, helping to facilitate different PET applications.
Product highlight.

SORTEX E PolyVision™

The SORTEX E PolyVision™ - Bühler’s brand-new optical sorter for the ultimate same-in-color polymer contaminant removal, handling the toughest challenges for PET recyclers.

Delivering the purest and cleanest quality flakes.

Ground-breaking SORTEX PolyVision™ detection technology combined with patent-pending high intensity halogen lighting provides PET recyclers with the ultimate polymer sort.

Using trans-reflective sorting and single sided detection, traditionally challenging polymeric contaminants such as PVC, PP and PE, are removed whilst other polymers including PS, PA, POM, PETG and silicon are reduced with pinpoint precision and ease. SORTEX E PolyVision™ can also remove unwanted colours in transparent and opaque form.

Increasing recovery, maximising profits.

Individual Defect Adjustment empowers recyclers to control the overall defect contamination of rPET flakes making it easier than ever to achieve desired flake quality and the different requirements of end-use applications.

New high precision ejectors fire precisely at delicate PET flakes without losing an important fraction of the smaller flakes ensuring valuable recyclate is protected. Ejectors are also easily serviceable, lowering the cost of ownership of SORTEX sorters.

Greater operational flexibility.

One of the most flexible optical sorters available in the industry. SORTEX E PolyVision™ can be paired with the SORTEX A ColorVision™ for best all-round colour, polymer, metal and foreign material removal or to be used as a 3-in-1 sorter targeting all defects depending on the application and sorting requirements.
4 Technologies.
Leading the way through innovation.

**SORTEX PolyVision™ detection technology**
Bühler’s ground-breaking SORTEX PolyVision™ detection technology combined with new patent-pending high intensity halogen lighting detects invisible polymer contaminants from PET flakes by analysing their unique chemical composition.

**SORTEX ColorVision™ inspection system**
High definition colour cameras are custom built in-house to deliver advanced colour recognition for the detection of unwanted coloured flakes, polyolefine (including bottle caps) and foreign materials. When combined with broadband LED lighting, Bühler’s SORTEX ColorVision™ inspection system can target defective flakes within the entire visible spectrum.

**High precision ejector technology**
Precision built for high speed ejection, firing precisely at the whole defect for the efficient removal of unwanted product. Featuring easy ejector serviceability and a long life span also enables the low cost of ownership of SORTEX optical sorters.
SORTEX ProSortX™ operating software

The latest update of Bühler’s proprietary operating software comes with a fresh new interface that’s modern, clean and intuitive to use. Featuring individual defect adjustment with new sensitivity sliders to tailor flake contamination and quality according to end customer requirements.
Model variants and specifications.

Models and variants

<table>
<thead>
<tr>
<th>Feature</th>
<th>SORTEX A ColorVision™</th>
<th>SORTEX E PolyVision™</th>
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<tbody>
<tr>
<td>Flexible Colour Cameras</td>
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<tr>
<td>SORTEX PolyVision™ technology</td>
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<tr>
<td>Enhanced InGaAs</td>
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<tr>
<td>InGaAs™ technology</td>
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<td>PRiMe™ technology</td>
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<tr>
<td>LED Lighting</td>
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<td>High intensity halogen lighting</td>
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<tr>
<td>Climate Control</td>
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<tr>
<td>Remote Access</td>
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<td>SORTEX ProSortX™</td>
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<td>CE Certification</td>
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<td>ATEX</td>
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- Standard
- Optional

For the full feature list and product specifications contact your local representative.

Dimensions

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<th>SORTEX A ColorVision™</th>
<th>SORTEX E PolyVision™</th>
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<td>Width mm</td>
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* Unpacked weight. Figures will vary based on machine specifications

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<tr>
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<td>Width mm</td>
<td>Depth mm</td>
<td>Height mm</td>
<td>Weight* kg</td>
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<tr>
<td>E1E</td>
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<td>1514, 60</td>
<td>2190, 86</td>
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</table>

* Unpacked weight. Figures will vary based on machine specifications
SORTEX A
(measurements based on A4 and A5 modules only)

SORTEX E1E
Global coverage.
In all major recycling markets.

North America
- 7 Sales offices
- 3 Manufacturing sites
- 6 Service stations
- 750 Employees

South America
- 6 Sales offices
- 2 Manufacturing sites
- 12 Service stations
- 400 Employees

Europe
- 35 Sales offices
- 10 Manufacturing sites
- 27 Service stations
- 5,100 Employees
With a presence in over 140 countries, our global reach gives you unparalleled access to our wide range of capabilities, successfully delivering equipment, services and support locally.

**South Asia**
- 5 Sales offices
- 1 Manufacturing site
- 11 Service stations
- 550 Employees

**Asia**
- 21 Sales offices
- 9 Manufacturing site
- 19 Service stations
- 3,500 Employees
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