SORTEX F optical sorter.

Fruit and vegetables sorting, redefined.
SORTEX F optical sorter.
Serious about food safety.

Fruit and vegetables sorting, redefined - delivering unprecedented foreign material detection in fruit and vegetable processing that represents the last word in food safety, hygiene, design and performance with the all-new SORTEX F optical sorter.

Pushing the boundaries in hygienic design with the most open and accessible frame the market has ever seen along with cutting-edge SORTEX PolarVision™ detection technology and new LED Xenon lighting, the SORTEX F takes high performance sorting to the next level for unprecedented defect and foreign material detection.

Custom built to remove gross and subtle colour defects, extraneous vegetable matter and foreign materials with pinpoint precision and ease in a wide range of frozen applications, at any point after IQF or in the packing line, for your safest and cleanest produce yet.

- Unprecedented defect and foreign material detection
- Hygienic design with no tolerance for contamination
- Delivering impeccable produce that is safe to eat

Frozen Green Beans  Frozen Peas  Frozen Carrots  Frozen Blueberries  Frozen Raspberries  Frozen Blackberries
SORTEX F.
At a glance.

1. **Accessible, stainless steel frame**
   Every element from the stainless steel frame to the hygienic screws have been carefully selected with food safety in mind – leaving no detail untouched.

2. **Hygienic, adjustable chute**
   Ultra High Molecular Weight Polyethylene (UHMW-PE) chute provides the perfect easy to clean, non-stick surface. FDA and USDA approved. Chute is easily adjusted, allowing processors inside of the machine for cleaning access.

3. **Unique open receptacle**
   Unique to Bühler, the receptacle is easily opened and closed to give processors deeper access for cleaning, reducing the risk of contamination.

4. **State-of-the-art detection system**
   Available with revolutionary SORTEX PolarVision™ technology which combines two pioneering technologies – PolarCam™ and InGaAs - with new Ejector+ for unrivalled foreign material and defect detection.

5. **Led Xenon foreground lighting**
   Provides consistent broad-spectrum lighting across the view for more uniformity with less shadowing.

6. **LED background**
   With red, green and blue backgrounds, processors can define the optimal sorting mode regardless of the application being sorted.

7. **Larger, 17inch user interface**
   Enhanced user interface comes with larger screen and controls, simplifying usability for the operator.

8. **SORTEX ProSortX™ operating software**
   New SORTEX ProSortX™ operating software comes as standard. Featuring a fresh new interface that’s modern, clean and intuitive to use.

9. **Smart Sorting capabilities**
   Featuring self-learning features, pre-set and user-defined modes for click and forget sorting that minimises operator intervention.
SORTEX F optical sorter.
The ultimate foreign material detection.
The most hygienic optical sorter, lowering the risk of contamination.

Every element from the ground up has been designed with the highest levels of food safety and hygiene in mind. From the stainless steel frame, slopped surfaces, hygienic conduits, stainless steel air set and hygienic grade fixings, the SORTEX F delivers the most hygienic solution in the market with no tolerance for product build-up, lowering the risk of contamination.

Unprecedented foreign material detection with SORTEX PolarVision™.

Available with Bühler’s new cutting-edge SORTEX PolarVision™ detection system. Combining two pioneering technologies, PolarCam™ and InGaAs™, with Ejector+, to detect all types of foreign materials typical in frozen fruit and vegetable applications including dark and light coloured plastics, wood, glass, snails and cardboards – giving you a solid line of defence with minimal yield loss and absolutely no compromise on performance.

Eliminate gross and subtle colour defects with custom-built visible cameras.

The all-new SORTEX F is equipped with Bühler’s industry leading, high definition visible cameras to detect gross and subtle colour defects, ensuring product quality and uniformity is achieved every time.

High definition InGaAs™ technology detects foreign material down to half the size

When the SORTEX PolarVision™ detection system is not selected, the SORTEX F can still be equipped with high definition InGaAs™ technology and paired with custom-built visible cameras and shape technology. With higher definition and double the resolution, InGaAs™ detects foreign materials down to half the size.

Customisable LED lighting for optimum sorting performance.

Sophisticated LED-Xenon foreground lighting provides the ultimate broad-spectrum lighting for greater uniformity with less shadowing whilst new LED background lighting comes with red, green or blue options to ensure optimal sorting performance is achieved, no matter the application being sorted.

256 new powerful ejectors. 25% more force. Heavier product rejection.

Bühler’s most powerful ejectors come as standard to remove heavier materials with pinpoint precision and ease. Anything from fine wood shavings and light extraneous vegetable matter to heavier objects such as sticks, stones and glass are removed with force whilst ensuring your valuable and fragile produce is protected.

The most open design, for superior cleanability.

A sophisticated, modern and cutting-edge design that’s not only practical for the frozen fruit and vegetable processing industry but offers superior access and cleanability too. Featuring an innovative UHMW-PE chute that can be adjusted upwards allowing operators to step inside of the machine to clean as well as a unique receptacle which can be opened and closed providing access to areas that have been difficult to reach before.

Fully equipped for a digital world.

Featuring Bühler’s new SORTEX ProSortX™ operating software which comes with a fresh new interface that’s modern, clean and intuitive to use, streamlining everyday sorting tasks for the operator. The new user interface is showcased in a larger 17inch screen with innovative FingerTipControl™ technology, larger buttons and controls making it easier than ever to configure your sorting set-up. Machine performance can also be monitored remotely with Anyware technology that sends instant fault alerts and machine data to Bühler engineers around the world.
SORTEX F optical sorter technology.
Innovation and leadership.

**SORTEX PolarVision™ detection system**
The specialist SORTEX PolarVision™ detection system brings together two pioneering technologies plus Bühler’s most powerful ejectors for unprecedented, market-leading foreign material removal. Innovative PolarCam™ technology targets the spectral and spatial differences between the commodity and foreign materials, new high-definition InGaAs™ cameras detect foreign materials in the near invisible infrared spectrum and Ejector+ technology removes the finest and heaviest materials with pinpoint precision for your safest and cleanest produce yet.

**Custom-built visible cameras**
Available with Bühler’s high resolution colour cameras which are designed and custom-built in house to remove gross and subtle colour defects, increasing overall product quality and uniformity.

**High definition InGaAs™ technology**
The next generation infrared detection technology from Bühler, optimised for enhanced plastic detection, now comes in high definition with double the resolution to detect foreign materials down to half the size. Seeing twice as many pixels, new InGaAs™ cameras detect foreign materials in the near invisible infrared spectrum adding yet another layer of assurance.

**Sophisticated LED lighting.**
Sophisticated LED-Xenon foreground lighting provides the ultimate broad-spectrum lighting for greater uniformity with less shadowing whilst new LED background lighting comes with red, green or blue options to ensure optimal sorting performance is achieved, no matter the application being sorted.
Specifications and Service.

Product options

<table>
<thead>
<tr>
<th>Product Options</th>
<th>SORTEX F</th>
<th>SORTEX F PolarVision™</th>
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</thead>
<tbody>
<tr>
<td>WearCare</td>
<td></td>
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<tr>
<td>RepairCare</td>
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<td>EjectorCare</td>
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<td>InGaAs®</td>
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<tr>
<td>PROFila™ Technology</td>
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<td>LED Background Lighting</td>
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<td>LED - Xenon Lighting</td>
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<tr>
<td>Remote Access</td>
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For the full feature list and product specifications contact your local representative.

Dimensions and Weight

<table>
<thead>
<tr>
<th>Machine (With Vibrator)</th>
<th>Width (mm, in)</th>
<th>Length (mm, in)</th>
<th>Height (mm, in)</th>
<th>Weight (kg, lbs)</th>
<th>Typical Power consumption (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SORTEX F</td>
<td>2126</td>
<td>2985</td>
<td>2112</td>
<td>1172</td>
<td>18.7A, 4.3 kW</td>
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</tbody>
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SORTEX Customer Care.

SORTEX Total Care offers customers the opportunity to create their own service package, composed of individual service features, to best suit their needs. Customers can tailor their individual package from the following options:

- **WearCare** – Preventative Maintenance
- **RepairCare** – Emergency Repair
- **EjectorCare** – Ejector Service and Repair
- **AnywareCare** – Anyware Health Check and Alerts

**SORTEX Spares Kits**

For customers who require spare parts available on site, Bühler’s technologists have created appropriate spares kits for the different machinery available.

**SORTEX Upgrade Kits**

Customers seeking the latest technology available on their optical sorter – whether software or extra functionality – benefit from a range of upgrade kits available.