Grain Sorting Solutions.
Leading Suppliers to the Optimised Grain Industry.

Equipment and solutions.

1. The Bühler advantage
2. Precision sorting
3. SORTEX A
4. SORTEX B
5. Balanced, stable sorting
6. Innovative technologies
7. About Bühler
Bühler in partnership with processors. An integrated partner of the grain industry.

Bühler is a leading global supplier of optical sorting solutions to the food and non-food processing industries and has been at the forefront of optical sorting technology for 70 years.

Bühler offers complete solutions for processors who demand the highest standard of product quality. The SORTEX® range is specifically engineered for grain sorting and delivers improved food safety.

With a commitment to substantial investment in research and development, Bühler has developed state-of-the-art technology that empowers small, medium or large-scale processors to meet stringent food safety and quality requirements as well as maximising their productivity and profitability.

SORTEX® advanced optical sorting technology is able to cater for a wide variety of grain applications and has been purposely designed to optimise grain sorting. Along with a market leading and long standing reputation and excellent after sales service packages, Bühler will prove to be a great partner.

Why Bühler?
- Improves food safety delivering the highest quality grain
- Maximises yield
- Delivers high capacity solutions
- Consistent performance, lower operational costs
2 Precision and Power.
An integral partner in grain sorting.

Damaged, diseased and discoloured products affects end product quality and impacts on profitability whereas foreign materials such as sticks and stones affects product value. SORTEX® optical sorting technology significantly reduces these issues to maximise yield and profitability of good product.

Wheat
Delivers high performance, consistently, on a large variety of wheat at different processing stages.

The latest SORTEX technology can remove subtle defects, discolouration and mycotoxins such as DON.

Durum
The SORTEX range is highly efficient, whether sorting whole grain, broken or semolina.

Removing even the subtlest spots, the range delivers processors exceptional product quality and appearance.

Barley
For all types of barley processing, the SORTEX range is highly effective in identifying and removing moulds and mycotoxins, including vomitoxin (DON) and Fusarium.

The SORTEX range also targets foreign grains and seeds, broken, shrunken, shrivelled or naked grains.

Solutions for all grain varieties.

Soft/hard wheat
Durum wheat
Corn/maize
Rye
Oats
Barley
Rye

The SORTEX range can remove disease infected rye, ergot, discoloured grains and foreign materials.

Small scale or large scale processors can achieve consistent, high quality yield.
3 SORTEX A.

Pioneering optical sorters for grain sorting.

Available in four variants; SORTEX A, SORTEX A DualVision™, SORTEX A ColorVision™ InGaAs and SORTEX A MultiVision™ the SORTEX A range demonstrates a commitment to providing grain processors with reliable and consistent long-term performance.

SORTEX® A.

Equipped with Bühler custom-built inspection and lighting systems, the SORTEX A range inspection technologies provide the most profitable sorting performance in removing subtle colour variations and foreign material, reducing toxins including mycotoxin, and colour grading/grouping.

Featuring Bühler proprietary technologies including Product Tracking, Auto-Calibration, High-Lumen LED Lighting and the new SORTEX ProSortX™ operating system, the SORTEX A offers ease of use, removing the need for manual intervention whilst ensures accurate product rejection and the highest reject concentration, minimising loss of good product.

- MultiVision™, ColorVision™, DualVision™ and standard inspection systems
- High capacity feeding with up to 5 chutes
- Custom-built colour cameras
- InGaAs cameras
- PROfile™ (shape, size & colour) technology
- SmartEject™ technology
- Broadband and High-Lumen LED lighting
- Re-sort capabilities
4 SORTEX B.
Optimising conventional sorting.

Available in three variants including the SORTEX B, SORTEX B DualVision™ and SORTEX B MultiVision™ inspections systems, the SORTEX B range is available in up to four frame sizes to suit all capacity requirements for mainstream grain sorting.

SORTEX® B.

Equipped with Bühler’s custom-built inspection and lighting systems, the SORTEX B range provides excellent colour sorting and foreign material detection, delivering high end product quality, consistently.

A combination of proprietary technologies such as lighting, inspection and ejector systems offer processors a range of sorting solutions while superior feed systems deliver a high capacity performance and reliability in mainstream coffee sorting applications.

- MultiVision™, DualVision™ and standard inspection systems
- High capacity feeding with up to 7 chutes
- Custom-built colour cameras
- InGaAs cameras
- PROsize™ (sizing) technology
- SmartEject™ technology
- Broadband and High-Lumen LED lighting
- Re-sort capabilities
Grain Optical Sorting Solutions.
The Bühler advantage
Balanced, stable and consistent sorting.

Built into all SORTEX optical sorting machines is the ethos of balanced and stable sorting. This is what provides Bühler customers with the competitive edge over other manufacturers’ machines. This guide explains how we achieve a balanced and stable sorting performance and the benefits it brings - increased revenue, reduced costs and consistent product quality.

Balanced and stable sorting is ideal for processors running a resort (secondary) and/or a third (tertiary) sort. Optimising the configurations of modules/chutes to perform in a balanced manner avoids unnecessary re-circulation of any accept or defect material whilst maintaining a consistent percentage of even lower reject concentration during re-sorting.

Balanced and stable sorting is also achieved through a combination of software and technologies pre-equipped in Bühler optical sorters notably; Auto-Calibration system and Product Tracking. This removes the need for laborious manual set-ups and delivers consistent sorting performance - all day, every day.

Key Benefits

- **Consistent accept quality**
  The percentage of accept quality remains consistent throughout the day. Additionally, there is no unsorted product left in the optical sorter once a batch process is completed.

- **Product circulation avoided**
  During a balanced stable sorting performance, a Bühler optical sorter intelligently sorts a grain into the reject or accept stream, with no re-circulation of undecided grains stuck in the process loop. This feature reduces the consumption of compressed air, energy use, wear of optical sorter and ensures the optical sorter maximises its capacity.

- **Greater product control**
  The reject and accept quality is the true representation of what a Bühler optical sorter can achieve during a batch process as no undecided grain is recirculated. This means that a processor can confidently adjust the accept quality/reject ratio to meet their requirements. This is supported by Product Tracking, a technology unique to Bühler, that maintains the consistency of the performance.
Innovative technologies.
Simplifying the most complex sort.

LED lighting illumination system

Bühler’s high resolution cameras are designed and built in-house with high-resolution optic sensors that deliver the colour registration needed to detect defects and foreign material. When combined with LED lighting, the sorters can target defects within the entire visible spectrum.

InGaAs technology

InGaAs technology can detect defects which cannot be seen in the visible spectrum providing much better separation of good product from foreign material of the same colour.

High speed ejectors

Bühler ejectors are custom-designed and precision built for high speed, easy serviceability and long life. Through constant development, the ejector life span has increased significantly. The efficiency and easy maintenance of this operation enables SORTEX sorters to have low cost of ownership.
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 innovative navigation control, impeccable user functionality and simple, easy set-up.
Bühler’s worldwide Customer Care organisation delivers the highest quality local support ensuring optical sorters perform at maximum possible efficiency, deliver optimum productivity and make the best return on investment.

The SORTEX Spare Parts promise.

Customer satisfaction is our priority. This is why we strive to deliver spare and wear parts within 48 hours, doing our best to limit your downtime and maximise your profitability.

For customers who require spare parts available on site, Bühler’s technologists have created appropriate spares kits for the different machinery available.
TotalCare™ allows customers to create their own service package, composed of individual service features that best suit their needs. Customers can create a tailored programme from a variety of packages. Contract options vary from basic to fully comprehensive cover. This way, investments can remain fully protected.

Customers can tailor their individual package from the following options:

- **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. Protecting Investment.

- **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. Repair and Optimise.

- **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. Maximum Capacity and Quality.

- **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. Maintain Optimised Performance.

- **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 smartphone. Ultimate control.

*All contracts are available for variable durations*

**SORTEX upgrade kits.**

Suitable for those who are seeking to upgrade sorters with an additional module, new features or software updates.

New technologies and innovations are continuously in development. Upgrade kits allow customers with existing machinery to enhance their production line with the very latest proprietary optical sorting technology.