



BUHLER



SORTEX S
UltraVision™.
Intelligent optical
sorting for rice.

Innovations for a better world.



BUHLER

SORTEX S UltraVision™.

The next generation of advanced intelligent optical sorting for rice.



Designed and built in the UK, SORTEX S UltraVision is a revolution in rice sorting, delivering the highest capacity and export quality standards with ease and pinpoint accuracy.

Never before has so much precision, flexibility and simplicity been made available, with such control over each individual effect.

The most technologically advanced, intelligent optical sorter available for rice today, demonstrating a total commitment to providing the ultimate solution to rice processor who refuse to compromise.

- Ultimate sorting performance with highest ever capacity
- Outstanding productivity
- Superior ease of use and serviceability



Long Grain



Short Grain



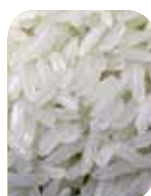
Red



Brown



Black



Jasmine



Basmati



Aromatic



SORTEX S UltraVision™.

At a glance.

1 Highest ever Bühler capacity

Available with up to six chutes and patented feed system to deliver an even higher capacity per chute.

2 Intelligent individual defect detection

Control over every defect, allowing users to adjust the amount of each defect removed with the slide of a button.

3 Textured LED Lighting™

Scientifically designed to improve illumination and enhance defect recognition in rice.

4 Multi-Chromatic 'Ultra' cameras

A unique and proprietary designed camera specifically for rice. Provides the ultimate in the detection of all known defects and foreign material.

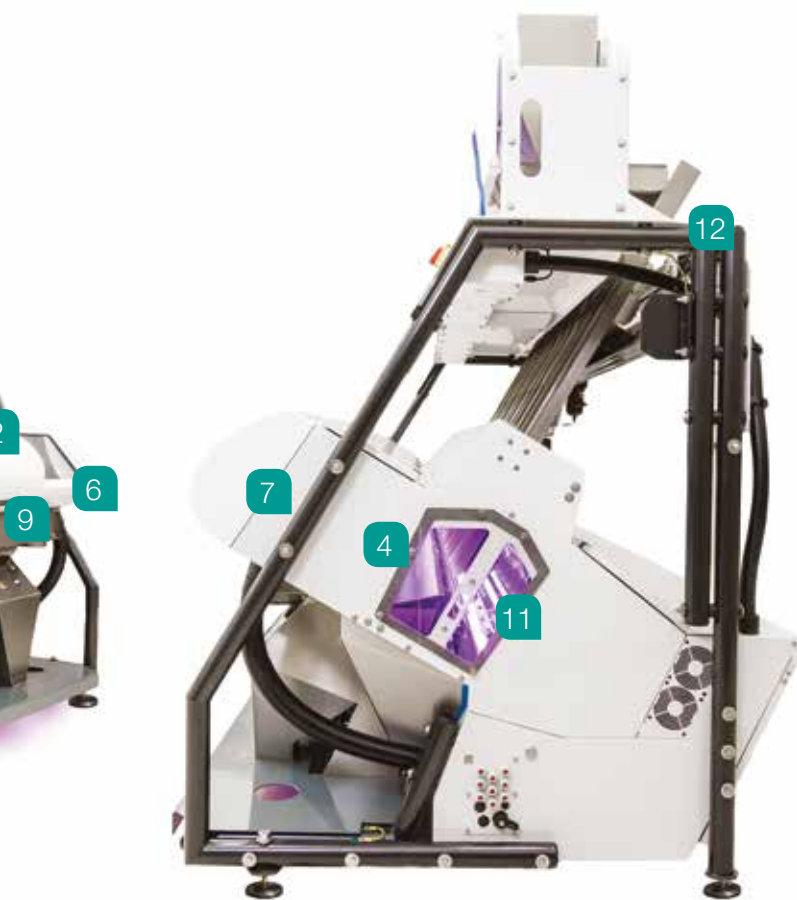
5 Crosshair Targeting™ technology

Improves the accuracy of the ejection of rejects, even during very high capacity processing.

6 SORTEX ProSort™ operating software

Power and control from one screen, beautifully displayed on a 15inch touch-panel.





7 Intelligent Modes

Pre-installed on the optical sorter to provide export quality sorting at the touch of a button.

8 Intelligent Automation

The optical sorter consistently scans and automatically adjusts to the incoming product, removing the need for laborious manual setup.

9 Remote access for real-time monitoring

Access for Bühler engineers to give support including performance adjustments from anywhere in the world.

10 Soft landing feature

Eliminates product breakages.

11 Easy-reach-glass

Optical viewing area can be cleaned without the need to remove chutes or receptacles, helping to sorting performance consistently running at its peak.

12 Maximum hygiene

Open machine construction and new design to make cleaning simple delivering a hygienic sorting operation.

Rice sorting applications. Your most challenging sort, conquered.

Accept Reject



White rice

Sample tests on white rice showed the removal of challenging subtle defects such as subtle greys, yellows, streaks and immature grains along with the more obvious defects and foreign materials such as stones.

Brown rice

Sample test on brown rice removed a wide variety of defects such as discolouration (lighter or darker coloured grains), immature and grains with varying degree of defects. Foreign materials such as unwanted variety of grains, husk, sticks and stones were also removed – results showed a highly concentrated reject.

Parboiled rice

Parboiled rice samples were verified to meet export quality as well as the highest food safety standards. Sample tests successfully removed grain defects; subtle and obvious bran streaks, pecks, discolouration, brokens and foreign materials; foreign grains and seeds, stones, plastics and glass.

SORTEX S UltraVision™ removes subtle to obvious defects



Subtle to dark purple and grey



Pale to dark yellow



Degrees of red and bran streaks



Degrees of peck and black tips



Immature and rotten grains



Subtle spots of white belly and chalky



Foreign Material

Sample tests on a variety of rice successfully removed foreign materials such as stones, different coloured glass: clear and coloured, sticks, and plastics.



Proprietary technologies. Innovated features for the ultimate sorting performance.



Intelligent individual defect detection

A combination of an all-new inspection system including cameras, lighting and detection software to detect the most subtle colour and rice defects. The result is premium quality rice that satisfies the most stringent international food quality and safety standards whilst matching exact customer accept requirements with ease.



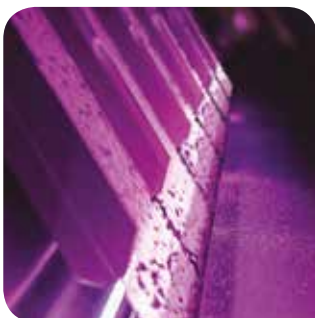
Pinpoint accuracy with Crosshair Targeting™ technology

Accurately targets and ejects defects while reducing the loss of good grains in the reject stream - reliably performing even during very high sorting capabilities.



Enhanced lighting with Multi-Chromatic 'Ultra' Cameras

Unique to Bühler, specifically designed to enhance defect detection in rice to accentuate the difference between grain colours - to separate these into different classes of defects.



Enhanced defect detection with Textured LED Lighting

A breakthrough design in lighting texture that helps the multi-chromatic 'Ultra' cameras to successfully differentiate different grains, while simultaneously enhancing the more difficult to detect defects. Textured LED Lighting™ has an exceptional life-span, low power consumption and its modular form allows for easier servicing.

SORTEX ProSort™ Operating Software.

Export quality sorting in 3-easy-steps.

All-new operating system set to dynamically change the way optical sorters are operated. Processors are now only three steps away from producing export quality rice - no lengthy manual set-ups, configurations and set-backs. Just three steps to export quality sorting – select the rice variety, adjust sensitivity (if required) and press 'start'.

Step 1



Choose a rice variety

Choose the rice variety required from the list of pre-installed Intelligent Modes.

Step 2



Adjust Quality

Depending on sorting requirement, should you wish to adjust output quality further, individual sensitivity controls for each defect are provided.

Step 3



Press Start

SORTEX S UltraVision will now start sorting to your exact requirements.



SORTEX TotalCare - AnywarePro™.

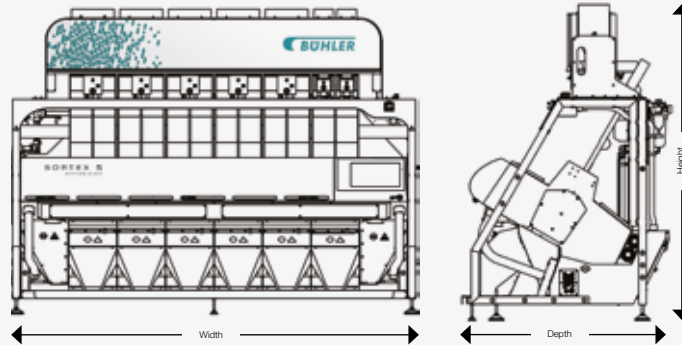
Monitor, control and analyse for maximum efficiency.

Monitoring, controlling and analysing the performance data on your optical sorter is crucial to ensuring maximum efficiency, productivity and yield. Now, for the first time ever, with AnywarePro™, you can. Monitor your optical sorter whenever you want and wherever - from your laptop, tablet or smartphone.

- Monitor real-time sorter status, performance, fault alerts and component lifetime indicators
- Access to a wealth of vital machine data at your fingertips
- Remote monitoring and real-time support from Bühler engineers

Technical specifications.

SORTEX S UltraVision™



Technical details

SORTEX S UltraVision™	Typical air requirements ¹ (N L/s)	Typical/Maximum Power consumption (kW) (200-240V; 50/60 Hz single phase)
3 module	11.5	2.0 / 2.6
4 module	14.4	2.4 / 3.2
5 module	18.0	2.9 / 3.8
6 module	21.6	3.2 / 4.4

¹ at 4.1 bar (60 psi) for 3% contamination, running at 2.5 tons per hour, per chute

Dimensions and weight

SORTEX S UltraVision™	3 Module	4 Module	5 Module	6 Module
Length (mm)	2113, 83	2113, 83	2769, 109	2769, 109
Depth (mm)	1372, 54	1372, 54	1372, 54	1372, 54
Height (mm)	2060, 81	2060, 81	2060, 81	2060, 81
Weight (kg)	985, 2172	1025, 2260	1185, 2612	1225, 2701

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 on spares and upgrade kits, to ensure your optical sorters perform at maximum possible efficiency. Training courses and Competence Centres offering application and product trials are also available at regional sites and local offices around the world.

TotalCare™

Create a customised service package, composed of individual service features from the list below. From maintenance visits, downtime cover to refurbishments and preventative - basic to fully comprehensive. Designed to ensure your optical sorters perform at its maximum 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 have designed various upgrade kits, for existing customers who are seeking to upgrade 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 advance, speak to your local representative for course selection and availability.

Bühler AG

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

Division Optical Sorting

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

SO 31650 en 1117 Z&B 175266