



SORTEX S
CrystalVision™.

**Bühler's most
powerful optical
sorter for rice.**

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Defining new standards in safety



Customer Safety is #1

Ensure there are no customer incidents or product recalls with the associated brand damage by removing notoriously difficult to detect foreign material while ensuring the highest yield.



Maximize yields & bagging capacity

A combination of 78 ejectors per chute and new sorting algorithms mean sorting efficiency is better than ever, leading to higher bagging capacity, and yield returned.



Artificial Intelligence & SORTEX Monitoring System

Intelligent Automation constantly scans and adjusts to the rice grains, removing the need for manual setup. SORTEX Monitoring System dashboards provide helpful information allowing sorter and plant performance to increase.



Join Bühler in the fight against climate change

A reduction in wasted product, energy and air consumption help to reduce the impact on the environment that is leading to climate change.

Examples of rice varieties sorted and defects/foreign material removed



Long Grain



Basmati



Jasmine



Short Grain



Parboiled



Brown



Black



Red



Frosted and abraded glass



Plastic



White & clear plastic



Immature and rotten grain



Spots and microspots



White belly and chalky



Clear Glass



Twigs and stones



Peck & black tips



Paddy and foreign seed



Pale to dark yellow

The SORTEX S CrystalVision at a glance

Highest ever Bühler capacity

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

Crosshair Targeting™ technology

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

Intelligent Automation

The optical sorter utilizes Artificial Intelligence to constantly scan and automatically adjust to the incoming product, removing the need for laborious manual setup.

Deep blue lighting array

Part of the technology allowing efficient removal of frosted or abraded glass.

Advanced vision system

Highly efficient removal of frosted/abraded glass and other foreign material.

Digital services

Lifting efficiency, quality and traceability to new levels and helping owners, operators, quality & plant managers to improve your sorting performance and ROI further.

Intelligent individual defect detection

Mastery over every defect, allowing users to adjust the amount of each defect removed with the slide of a single control.

Maximum hygiene

Open construction and design to make cleaning and hygiene simple.

Soft landing feature

Greatly reduces product breakages.

Textured LED lighting™

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



SORTEX Monitoring System

The SORTEX Monitoring System provides an overview of all key performance indicators, delivering actionable insights to increase productivity, yield, and efficiency.



Make an informed decision from anywhere

Operation monitoring and reporting



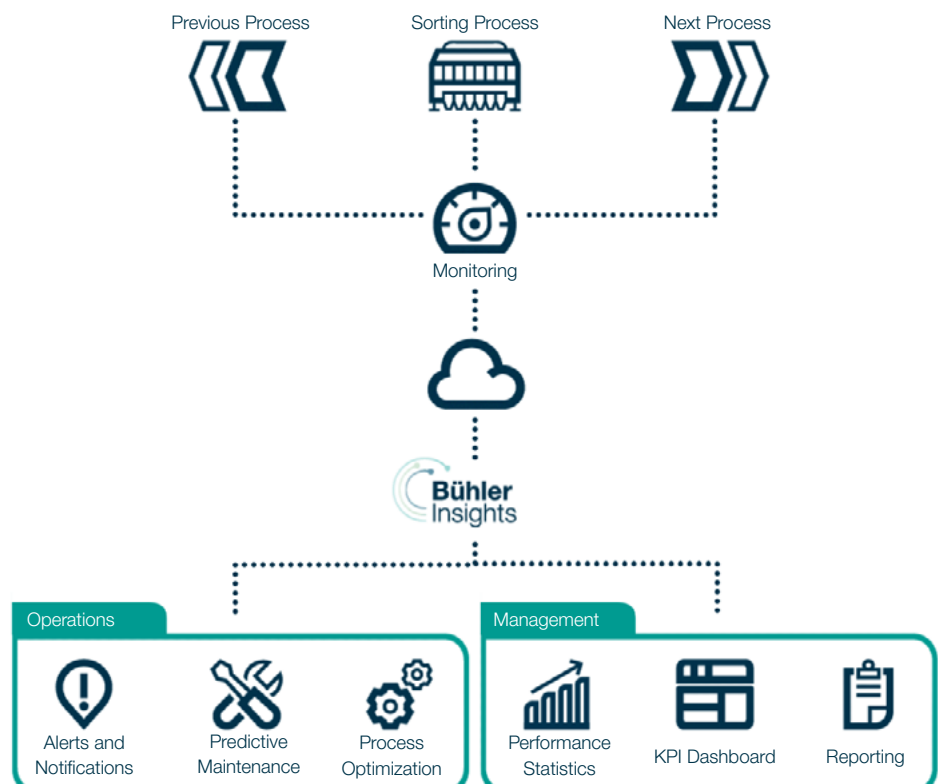
Act fast and save money

Alarms and notifications on customized thresholds



Increase productivity

Track shift performances and downtime



SORTEX Monitoring System dashboard

This ‘at-a-glance’ dashboard provides a comprehensive overview of each sorter’s performance, with various alarms to flag anomalies as defined by the customer.

Average Percent Rejected

An estimation of the percentage of product rejected. This can vary depending on the type of defect and product, hence is only useful as a trend indicator.

Total Throughput

For most machines in factories, throughput (or capacity) should remain constant over time. A large deviation from the average value may suggest a feeding error or some other issues. Monitoring this number from time to time is a good idea.

Throughput

Throughput and feed rate are plotted against time. This feature is useful for identifying downtime and tracking optimum feed rate settings.

Percent Rejected

Percent Rejected is plotted against time. This allows you to monitor for trend, e.g. when spikes in defect fraction occur.

Ejector usage

Ejector use per module can quickly show whether material is being supplied evenly across the machine. By tracking the maximum and minimum ejection per module blockages can be identified where some ejectors are firing much more frequently than others.

Ejector rate per defect

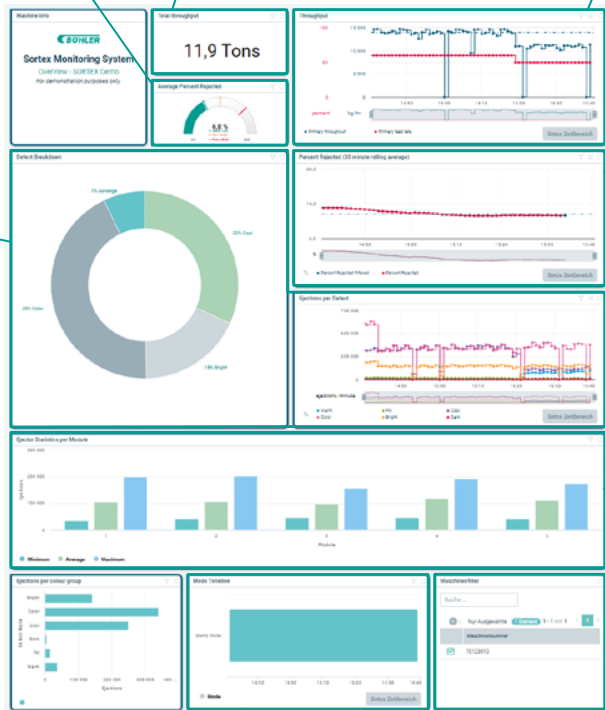
Ejection rates per defect type reveal finer detail about product composition. This data can be used for identifying problems upstream of the sorter, e.g. variation in supplier quality or issues with product cleaning equipment such as de-stoners.

Mode tracker

The modes used on the machine can be tracked. This can be used along with the “set time range” feature to select data when a specific mode has been in use.

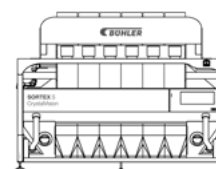
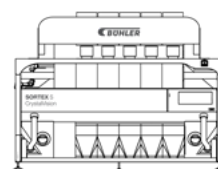
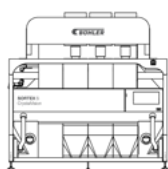
Machine list

Unique machine numbers for identification and selection of the relevant sorters.



Technical Specifications

Module	3 module	4 module	5 module	6 module
Length (mm, in)	2113, 83	2113, 83	2769, 109	2769, 109
Depth (mm, in)	1372, 54	1372, 54	1372, 54	1372, 54
Height (mm, in)	2060, 81	2060, 81	2060, 81	2060, 81
Weight (kg, lbs)	985, 2172	1025,2260	1185, 2612	1225, 2701
Typical air requirements ¹ (N L/s)	11.5	14.4	18	21.6
Power consumption(kW)** 220V, 50/60 Hz single phase	2.1/2.8	2.5/3.5	3.0/4.2	3.4/4.8



Worldwide Customer Service

We at Bühler believe in nurturing lifelong partnership with our customers. We are here to help you 24/7, providing customer service that you can depend on.

For maintenance and product testing, to training and digital services, our aim is to boost your production performance and ensure an unmatched quality of final product for your customers.

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