



Aligning to the **need of the hour.**

Digitalization

In this digital age, people expect high levels of usability; Bühler's MerlinAi engine brings sorting machines up to speed. An engineer or skilled operator is not required for set-up or maintenance of the sorter, it is easy to set up and simple to use, no technical skills are needed. This attribute is even more important in the face of the current shortage of skilled workers across Europe and North America, MerlinAi provides a layer of assurance for processors.

Climate change

Every single day, climate change gains more and more prominence in every part of our lives, including its increasing impact on crops. Solutions for concerns aggrevated by climate change, such as mycotoxins, are critical. The Digital Technologies business area of Bühler continues to focus on innovations for solutions to combat this ongoing global crisis.

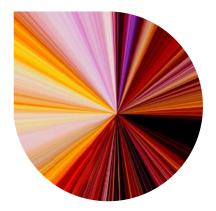
Food safety and hygiene

As a knock-on effect of people around the world becoming more health-conscious, food safety and hygiene have gained immense importance. Consumers are now more aware and careful of the origin and processing of products. Bühler solutions have always been and will continue to prioritize food safety and hygienic processing.

Evolve your

sort process.

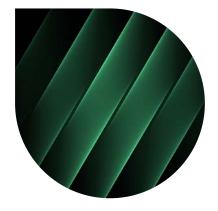
The new SORTEX H SpectraVision has been developed using the best of Swiss and British engineering know-how. As the result of our 75 years of extensive experience in optical sorting, it offers 3 key benefits for our customers:



Improved performance

An all new optical sorter delivering up to 50% higher reject concentrations.

- In line with Bühler's goal to reduce energy, waste and water by 50% to feed the world population of 10 billion by 2050, the SORTEX H SpectraVision has been designed to supply maximum yields
- Innovative ejection algorithms significantly minimize false rejects
- New calibration and tracking algorithms improve machine consistency, reducing false rejects
- New LEDs with triple the amount of light, full color cameras combined with our new color detection, and defect size processing algorithms ensure superior defect detection



Ease-of-use

No technical skills required for operation.

- Unmatched ease of use so required sort quality can be easily maintained
- Individual defect removal control to combat the everincreasing number of defects appearing as a result of Climate Change and pesticide reduction
- Unrivalled mycotoxin, allergens and FM removal ensure absolute adherence to food safety regulations, thanks to full color and InGaAs cameras



Connectivity

Control and view your machine performance from anywhere in the world, in line with Industry 4.0 standards.

- Machine setup changes logged and saved on Bühler Insights
- Real-time tracking of sorting performance and emergency warnings with SORTEX Monitoring System
- Full visibility and remote control automation integration options
- Contribute to process insights and multiply transparency across your entire line
- At-a-glance overview of your sorter's operation





Detect what nobody else can.

The SORTEX H SpectraVision is an all new optical sorter featuring new sensor technology, full color cameras, new software and a compact modern design with up to 7 chutes. A bigger UI screen and newly developed electronic hardware ensure optimum and reliable performance over time.



New cameras, designed for sorting

SORTEX optical sorting cameras have been specially designed in-house to give industry-leading low signal to noise levels. The new full color cameras with better spectral purity between colors give the best color differentiation for the subtlest of defect colors. While new InGasAs cameras push foreign material (FM) detection to new levels.



Intelligent sorting algorithms

A new suite of algorithms and advanced learning techniques has been developed to elevate our customers' ability to remove foreign material (FM), and subtle defects while increasing product yield, moving your performance forwards and delivering ease of use. All new calibration and product tracking algorithms ensure consistency of sort-maximizing machine performance.



The development guarantee

Bühler SORTEX is driven by passion, which is why we are continuing to work on improvements to make this machine even better, to suit ever-growing market challenges. New features, software solutions, and upgrades will guarantee that you have always state-of-the-art equipment in your plant.





Simple and easy sorting.

The most simple to use optical sorter on the market. Time consuming performance optimizations and adjustments are a thing of the past. Now with preset modes any user, regardless of skill level, can change recipes and adapt them with our intuitive sliders. It is easy as optical sorting should be!





Default modes

Default modes for each product optimized by SORTEX experts allowing for quick and easy product changeovers.

Simple user interface

The simple design, formulation and bigger UI screen of the SORTEX H ensure easy navigation of the machine. Individual sensitivity control over each defect makes it easy for operators to achieve the optimum machine performance.

SORTEX Smart ModeAssist

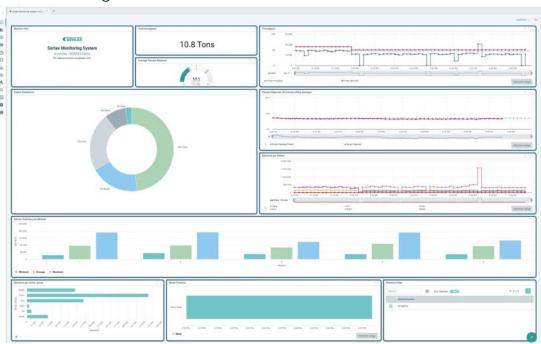
Smart **ModeAssist** analyzes hundreds of frames of data to optimize color, defect sizing and rejection algorithms. The **ModeOptimizer** tool allows the user to visualize the product that will be accepted and rejected for easy machine adjustment.





The SORTEX H transforms your plant digitally. In line with Industry 4.0 standards, you can control and view your machine performance from anywhere. Furthermore, SORTEX Monitoring System provides you with vital information about your machine and plant – giving you complete transparency.

Bühler Insights





Make an informed decision from anywhere Remote operation

Remote operation monitoring & reporting powered by Bühler Insights



Act fast & save money

Alarms & notifications on customized thresholds



Increase productivity

Track shift performances & downtime



Reduce waste

Access an overview of input contamination and ejections



No technical skills required

Suitable for anyone in the factory to use and gain insights from the sorter



SORTEX H SpectraVision at a glance.

- MerlinAi advanced multi-layer sorting algorithms
- High intensity LED lighting gives out 3x the light of previous generations machines
- Full color cameras with better spectral purity between colors enhances defect detection
- 4 Design and validation at Bühler's facility in London guarantees super build quality
- Auto product tracking to maintain machine performance.

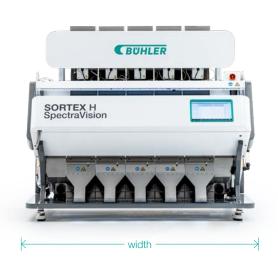
 One calibration at recipe recall

- 6 Default sorting modes developed and tested by Sortex experts for out-of-the-box operation
- 7 Simple to use user interface easy machine operation so optimum machine performance can be checked and maintained

Bühler Insights connectivity
with SORTEX Monitoring
System lifts efficiency, quality,
and traceability to entirely
new levels



SORTEX H SpectraVision technical specifications.





	Machine width	Depth- doors open	Depth- doors shut	Height	Weight	Typical air requirements L/s* 0.6 - 0.8 Mpa	Max power consumption (kW)** (200-240V; 50/60 Hz single phase)	
	(mm)	(mm)	(mm)	(mm)	(kg)		TXTX	TRTR
H1	1085	2323	1776	2010 to 2088	552	8	2.0	1.6?
H2	1820	2323	1776	2010 to 2088	930	16	3.3	2.8?
НЗ	1820	2323	1776	2010 to 2088	973	24	3.3	2.8?
H4	2422	2323	1776	2010 to 2088	1257	32	4.8	4.4?
H5	2422	2323	1776	2010 to 2088	1300	40	4.8	4.4?
H6	3062	2323	1776	2010 to 2088	1639	48	6.2	5.9?
H7	3062	2323	1776	2010 to 2088	1682	56	6.2	5.9?

	H SpectraVision	H SpectraVision InGaAs		H SpectraVision	H SpectraVision InGaAs
Full color cameras			CE certification		
InGaAs technology			NRTL		
High intensity LED lighting			ATEX / Hazloc		
Xenon IR lighting			Bühler Insights connectivity		
Intelligent default modes			SortControl		
Climate control			SORTEX TotalCare™		
Remote access			Available modules	1 to 7	1 to 7
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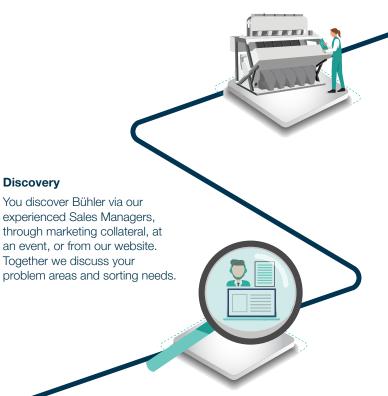
optional

With you

at every step.

Discovery

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



Validation and solution

You send us your technical requirements and product photos, including any defects. If your application has been processed by our machinery before we can refer to our database of over 10,000 samples to propose one of our tried and tested solutions. If your commodity has not been tested by us before, we invite you virtualy via livestream to run a small-scale sample test. Alternatively, you can visit one of our 14 applications labs located all around the world.

Based on the test results, we collaborate with you to create a bespoke Sortex solution that you are confident in, that will suit your unique processing requirements and increase your business performance.

Manufacturing

With 32 manufacturing sites around the world, we have a very high in-house production capacity, including development of intricate cameras and sensors. Our optical sorters are not built on stock, but rather based on your specific needs.



Performance Optimization

Connecting your sorter to Bühler Insights enables you to collecting real-time data.

Our digital services such as SORTEX Monitoring System and SortControl enable you to remotely monitor and control your sorting performance and turn it into actionable insights leading to productivity, quality and efficiency optimization.

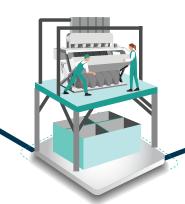
Remote Services

As a member of the Bühler family we offer you a range of aftercare solutions to enjoy, including: Tests, repairs and remote support from our Service Engineers based at 98 Bühler service stations around the world.

myBühler portal – our trusted customer portal which provides you with all the information you'll need to run your SORTEX machine.

TotalCare – our service package for repairs and performance optimization.

Retrofit services – which allow you to update or upgrade your machine, increasing its lifecycle.



Operation

Our sorters are intuitively designed for easy operation and flexibility with quick product changeovers. We offer operator training courses conducted by our Service Engineers on-site at your plant.

Installation

Using integration drawings, the machines are fitted and tested by our experienced and highly trained local language speaking Service Engineers. They connect the machine to your plant's automation system using PLC or other plant networks.

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