

Safe Food.
Clean Food.



SORTEX Z+

Buhler innovation.
Look, aim, fire.










SORTEX Z+Vx the newest member
of the SORTEX Z+ range

The SORTEX Z+ is a global phenomenon in optical sorting. Its sorting accuracy gives the best yield and efficiency of any optical sorting system and even at the highest production capacities it adds value to a variety of commodities :

RICE • PULSES • BEANS • NUTS • GRAINS • SEEDS • TEA • COFFEE • SPICES • DEHYDRATED • PLASTICS

SORTEX Z+ Range and its Combined Camera Power

With our best resolution and highest signal to noise ratio cameras to detect and then reject minute defects, the SORTEX Z+ consistently removes subtle imperfections using 2048 pixel visible camera sensors and high-resolution infra-red sensors.

	Monochromatic Visible Wavelengths	Monochromatic Infrared Wavelengths	Bichromatic Visible Wavelengths	Bichromatic Infrared Wavelengths
SORTEX Z+ Vx				
SORTEX Z+ V				
SORTEX Z+ B				
SORTEX Z+ R				



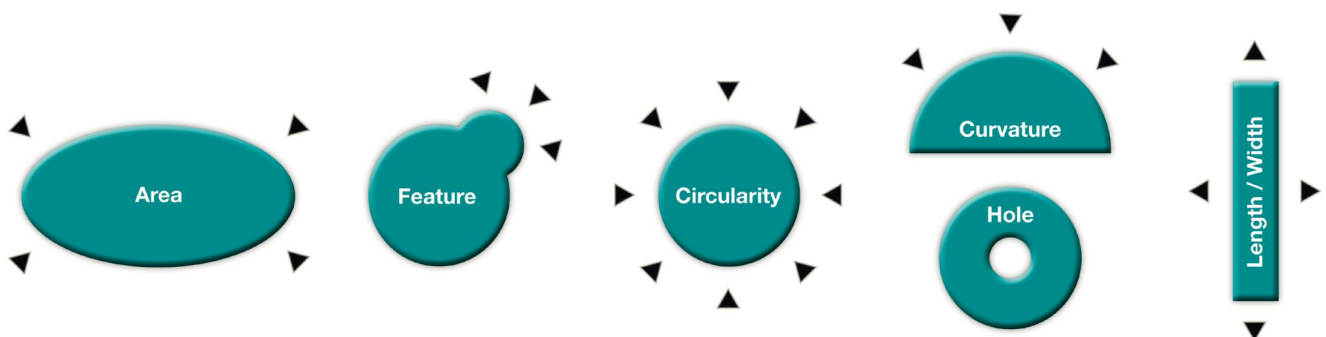
Standard cameras



Optional cameras

A combination of the most advanced cameras and shape recognition identifies the widest range of foreign material, extraneous matter, smaller spot defects, finer product damage and subtler colours.

PROfile Shape Recognition



Adds a powerful new defect detection tool to further enhance the sorting capability of SORTEX Z+B and SORTEX Z+R machines.

LENGTH • WIDTH • AREA • CIRCULARITY • HOLES • CURVATURE • FEATURES

Continuing the sorting revolution. Increasing your profitability.

Since **SORTEX** engineered its first optical sorter in 1947, we have continually increased sorting capacity, efficiency and effectiveness. Only three years after its introduction, the Z-series is used in more than 60 countries, sorting a wide variety of grains, beans, pulses and nuts as well as non-food products such as plastics.

The Z-series is so popular because all its features have been designed to improve your product and increase your profits. From this powerful platform the new SORTEX Z+ has been born, taking optical sorting to a new level:

Highest Product Quality

The SORTEX Z+ offers the cleanest possible product but you can tailor the accept quality to your requirements. The SORTEX Z+ uses its automatic calibration and product tracking to maintain constant quality, without the need for operator adjustment.

Lowest Product Loss

Every good product that gets ejected reduces your profit, so all aspects of the SORTEX Z+: feed, cameras and ejectors are designed for maximum ejection accuracy. These new designs have resulted in the highest yield SORTEX optical sorting has achieved to date.

Quality Assurance

Continuous measurement of input defects and broken grains enhances your quality assurance data by providing trend analysis.

Reliability

Every hour of up-time increases your profit, so all components of the SORTEX Z+ have been thoroughly tested at extreme temperatures and conditions to ensure maximum uptime.

SORTEX Total Care and **Z+ Anyware** ensure that your sorter is maintained to the highest standard and that it can be regularly monitored anywhere in the world.

Low Running Costs

Sorters must be cheap to run. In the SORTEX Z+, careful power management reduces electricity costs and small high-pressure ejectors reduce air consumption. Long life lighting and the new extremely long life ejector of the SORTEX Z+ reduce maintenance cost.

Ease of Use

Your operators can get the best performance from the SORTEX Z+ with minimal training. The new SORTEX Z+ features a large colour display with multi-language selection.

Clean and Safe

The design of the SORTEX Z+ makes for the safest, cleanest food. The open construction prevents product accumulation and makes the sorter very easy to clean. CE compliance and the option of ATEX 22 compatibility mean that it meets all current safety legislation.



INVESTOR IN PEOPLE



Safe Food.
Clean Food.



Partner for solutions.

High capacity in a small space



■ actual styles may vary from those shown

Capacities (tonnes/hour)

	Weight	Wheat	Beans & Pulses	Nuts & Coffee	Rice	Seeds & Tea	Dehydrated Vegetables
Z+1	612 kg	2.0 - 9.0	2.0 - 7.0	2.0 - 4.0	1.5 - 4.0	0.5 - 6.0	0.5 - 2.0
Z+2	800 kg	4.0 - 18.0	4.0 - 14.0	4.0 - 8.0	3.0 - 8.0	1.0 - 12.0	1.0 - 4.0
Z+3	900 kg	6.0 - 27.0	6.0 - 21.0	6.0 - 12.0	4.5 - 12.0	1.5 - 18.0	1.5 - 6.0
Z+4	1050 kg	8.0 - 36.0	8.0 - 28.0	8.0 - 16.0	6.0 - 16.0	2.0 - 24.0	2.0 - 8.0

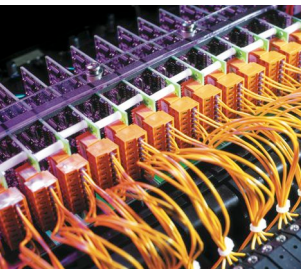
Z+ Vx	Z+ V	Z+ B	Z+ R
■	■ L	■ L ●	■ L ●
■	■ L	■ L ●	■ L ●
■	■ L	■ L ●	■ L ●
■	■ L	■ L ●	

■ Base model
 ● PROfile shape option
 L Large size commodity option



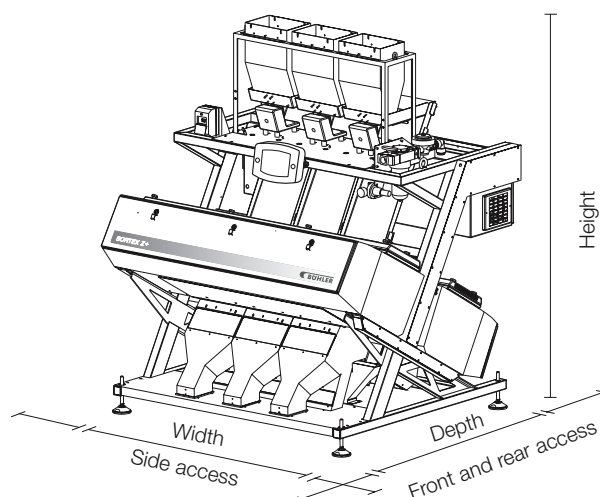
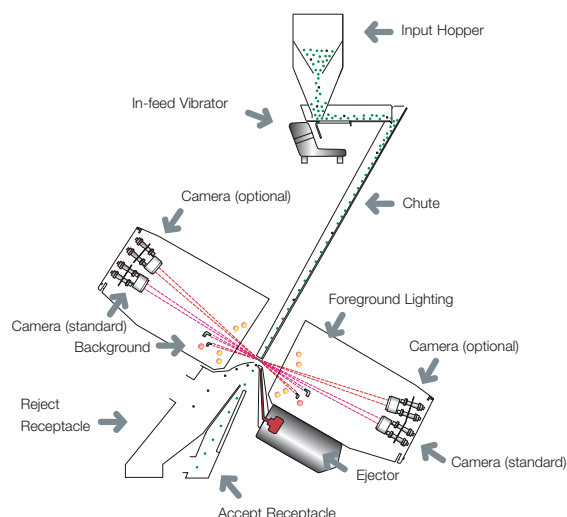
New 12.1 Inch Colour Graphical User Interface

The SORTEX Z+ has a large, colour, touch-screen control panel making control of the sorter clear, logical and simple. The display supports all major languages and includes on-screen help.



New Longer Life, High-Speed Serviceable Ejectors

The ejection accuracy of the SORTEX Z+ is unsurpassed. Our sorters are equipped with improved long life ejectors.



Technical details

	Air requirements 72-102 psig (5-7 bar)	Power consumption (200-240V; 50/60 Hz single phase)
Z+1	8.6 l/sec@4.1 bar	1.5 kW
Z+2	17.3 l/sec@4.1 bar	2.5 kW
Z+3	26.0 l/sec@4.1 bar	2.5 kW
Z+4	34.6 l/sec@4.1 bar	3.0 kW
Noise emissions under normal operating conditions <85 dB _A		

Dimensions (mm)

	Width (Side Access)	Depth Doors Open (Front, Rear Access)	Height
Z+1	850 (325)	2198 (350,250)	2031
Z+2	1680 (325)	2198 (350,250)	2031
Z+3	1680 (325)	2198 (350,250)	2031
Z+4	1980 (325)	2198 (350,250)	2031

SORTEX Total Care

All inclusive service - Insuring low cost of ownership

Our worldwide Customer Care organisation delivers the highest quality local support. We have now developed SORTEX Total Care, which combines the best of our local support with a new range of support services, embracing the latest in communications technology.

International support delivered locally

Wherever you are in the world, our communication package Z+ Anyware is designed to give you peace of mind. Through the global telecommunication system or the Internet. It allows us to assess the condition and setting of your sorter and identify when things are not quite right. Our local and central support teams are ready and waiting to help. Anyware Alerts feature adds automatic fault indication to Buhler Sortex's Customer Services, enabling us to provide Total Care.



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