

*Designed and made
to ensure safety
and quality every day*



Infinity Plus



**Solutions
for
Cereals and Legumes**

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Proudly Made in Italy



NEW INFINITY PLUS SORTERS FOR CEREALS AND LEGUMES

It is the new series of optical sorters produced by IST conceived and designed for **CEREALS** and **LEGUMES**. Thanks to **MULTISPECTRAL VISION** and the use of **ARTIFICIAL INTELLIGENCE** it will be possible to process any type of cereal such as soft wheat, durum wheat, barley, oats, rice, corn and any type of legume such as chickpeas, lentils, beans and many others.

SOFTWARE WITH ARTIFICIAL INTELLIGENCE

IST has developed for its sorters a technology capable of simulating the learning processes of the human brain, with the aim of allowing the operator to fully manage the programs in complete autonomy. It will in fact be possible to create a program in a few minutes through the automatic acquisition of images of compliant products and all defects to be discarded.

The software based on artificial intelligence will be able to accurately recognize any type of defect by comparing thousands of images related to the product in just a few moments.

Remote assistance, for the creation or modification of programs, so as to be able to intervene remotely and in real time.

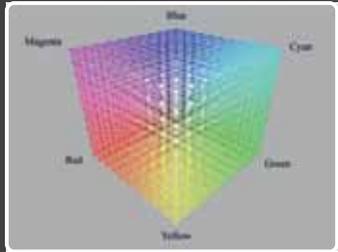
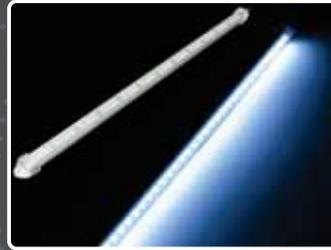


EXPULSION

A renewed expulsion system, specifically designed and developed for cereals and legumes, will allow the sorters to be able to discard with very high precision, thus obtaining maximum purity in the selection, minimizing false rejects and avoiding loss of good product.

MULTIFREQUENCY LIGHTING

IST has developed a lighting system that allows the inspection of the product through different wavelengths simultaneously. The use of this technology does not require any refrigeration system and guarantees uniform and balanced lighting.



DIFFERENT TECHNOLOGIES COMBINED IN ONE MACHINE

Multi-spectral vision system, allows the combined use of different wavelengths to achieve maximum results:

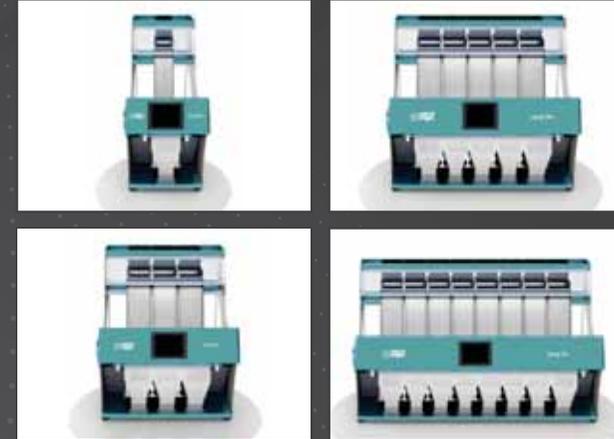
High-resolution **RGB** cameras, with **FULL COLOR** technology, capable of distinguishing up to 16 million colors and recognizing defects up to 0,09 mm.

Cameras with specific **IR** sensors for the recognition and separation of foreign bodies such as stones and soil.

Dimensional and geometric recognition of the product which, combined with the color vision system, allows the defective product to be recognized based on the difference in shape and size.



Our models



Technical Specification

	Width	Depth	Height	Air Consumption	Energetic Consumption	Ejectors per channel
	mm	mm	mm	kg	l/s	kw
Infinity Plus 1	940	1790	1840	460	5	0,5
Infinity Plus 2	1280	1790	1840	710	10	0,9
Infinity Plus 3	1620	1790	1840	800	15	1,3
Infinity Plus 4	1960	1790	1840	1020	20	1,7
Infinity Plus 5	2300	1790	1840	1200	25	2,1
Infinity Plus 6	2640	1790	1840	1300	30	2,5
Infinity Plus 8	3320	1790	1840	1550	40	3,3

The data provided are purely indicative and may vary depending on the installation conditions and the processed product.

UP TO 8 CHANNELS WITH MULTIPLE WORKING SECTIONS

This new series of sorters designed for the selection of cereals and for the **MILLING INDUSTRY** can provide up to 8 channels in order to satisfy every type of production requirement up to exceeding 30 tons/h.

Each sorter can be configured to perform multiple processes to be able to re-sort both the rejected and the accepted product.

