

TOTAL **HYGIENIC** SORTING



CURIOSITY



• New design



• Vision software



• Powerful vision board



• New led lighting system



• Totally compliant with

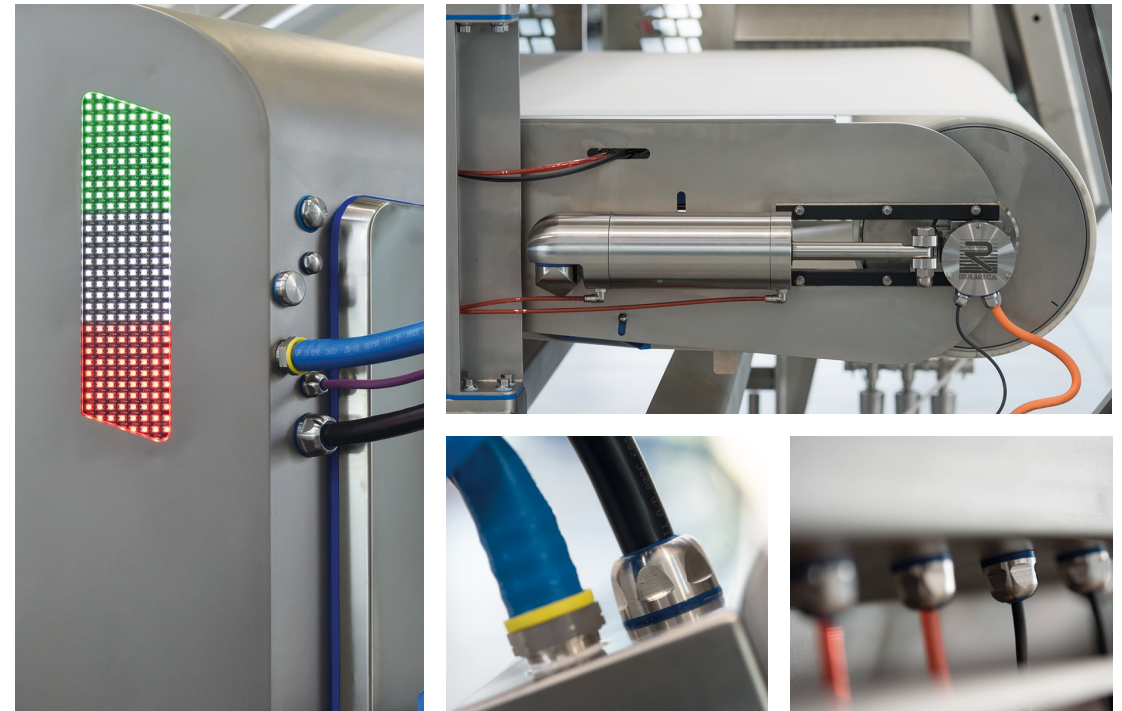


The first sorting machine totally compliant with EHEDG guidelines



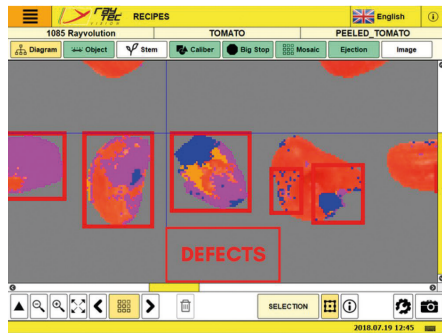
CURIOSITY

- CURIOSITY achieves the totally hygienic compliance according to the EHEDG guidelines;
- A new design allows to match the high efficiency, typical of Raytec Vision sorters, together with the latest request of high standards of hygiene and easy cleaning;
- Managed by Raytec Vision powerful UNYCO software, CURIOSITY can detect all defects and inclusions that you seek to reject, while taking care of your production.

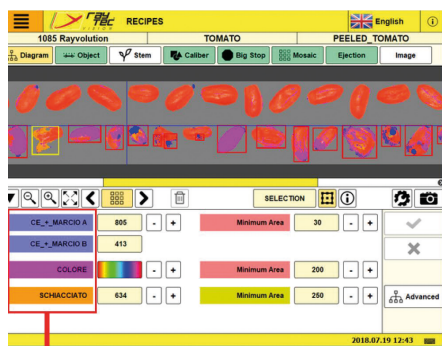


ver.01/2020

Software GUI UNYCO

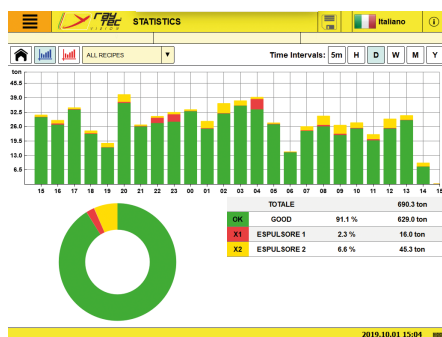


Easy to use: large and colorful pictures allow the operator to easily understand and set the parameters' effects on the product.



PARAMETERS

Intuitive and functional interface: less parameters, easy to change.



Statistic function to monitor the production and the quantity and quality of the rejected product.



DECARAY LIGHT

Decaray, the 10-frequency multispectral technology developed by Raytec Vision, finds its application in **CURIOSITY**. Decaray combines 10 different visible and NIR light sources. They interact with the product by reflection, translucency and fluorescence, allowing to obtain information that makes the selection system very effective.



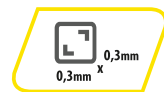
UNYCO SOFTWARE

UNYCO is the intuitive and user-friendly software that allows the user to set recipes on the **CURIOSITY** sorter, according to the product to be selected.

UNYCO software performs the following functions:

- Processes the signals resulting from the interaction of the 10-frequency Decaray with the objects, highlighting the defects with respect to compliant products;
- Recognizes the shape of the objects or parts of them by highlighting incorrect shapes with respect to those of the compliant products;
- Performs statistical analysis relating to the quantity of objects processed, the quantity of compliant products and that of non-compliant products divided by the type of defect and waste output.

UNYCO allows the detection of:



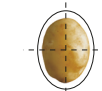
ROTTEN



CALIBER



FOREIGN BODIES



SHAPE



STEM



BEST OPTICAL RESOLUTION

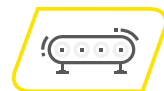
Raytec chooses the best performing optical resolution 0.3x0.3 mm, to obtain the most accurate image screening and therefore better precision in identifying even the smallest defect.



TOTALLY HYGIENIC

CURIOSITY is the result of a new design, especially conceived to comply all the **EHEDG** guidelines.

Its half-hexagon open frame structure makes the machine resistant and easy to clean. Furthermore, the frame made of slope surfaces makes the cleaning and sanitation procedures more effective, meaning less time for better cleanliness.



2WAY OR 3WAY EJECTION SYSTEM

CURIOSITY is available with both single (2way) or double (3way) ejection system.

The single ejection system can be air-jet or pneumatic fingers, while the double can be the combination of two air-jet systems or an air-jet and pneumatic-fingers systems.

CURIOSITY ejection process is driven by Smart-Jet, a Raytec Vision system that guarantees a reliable expulsion by monitoring the correct electrical and pneumatic operation condition of the ejection valves.



ESB-TECHNOLOGY BELT

CURIOSITY features an electronic auto-tracking belt technology called **ESB**.

This system has the function of keeping the belt in the correct central position, acting on any skidding that may occur during operation. Moreover, it regulates the correct tensioning of the belt, making it work in its best conditions.

ESB allows the belt to reach speeds of up to 240 m/min.



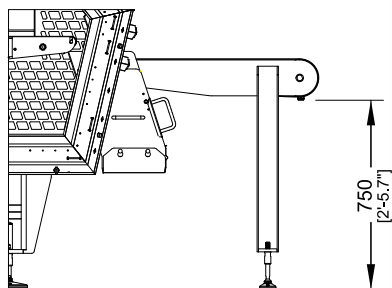
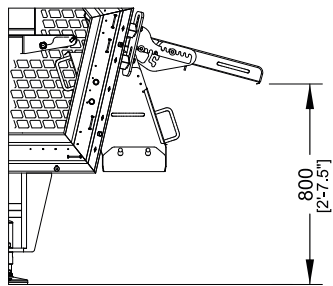
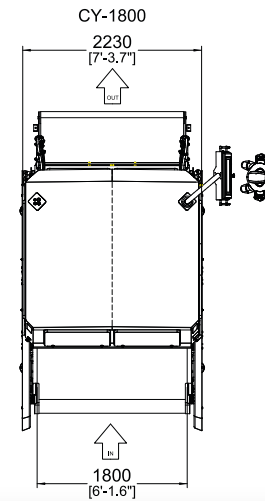
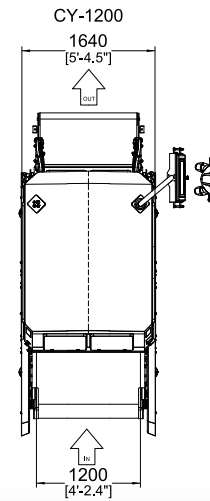
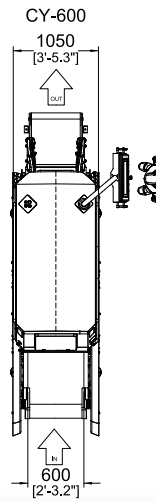
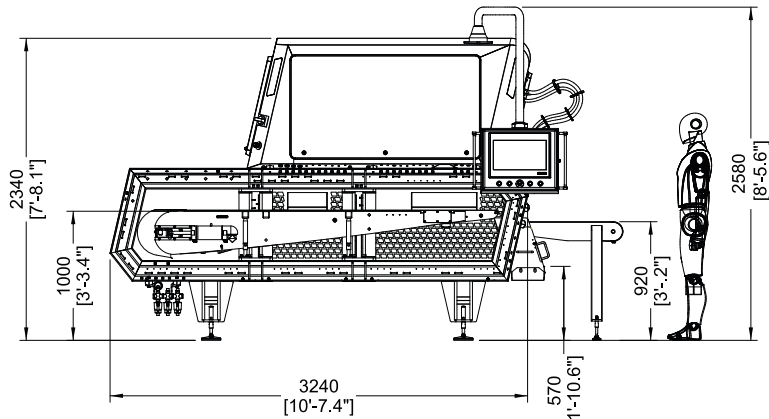
RAPID BELT DISASSEMBLY

CURIOSITY is designed with a rapid disassembly tool-free system for the belt, that allows its disassembly in only 5 minutes.

It has the aim to make all the machine sanitizing operations quick and easy to perform on a daily basis.

IP67 PROTECTION

CURIOSITY is certified IP66 for the electric panels and IP67 for the cabinet.



CY-600

CY-1200

CY-1800

TECHNICAL FEATURES

Inspection Width	600 mm	1200 mm	1800 mm
Optical Resolution	0,3x0,3 mm [0.12"x0.12"]	0,3x0,3 mm [0.12"x0.12"]	0,3x0,3 mm [0.12"x0.12"]
Camera	VIS + NIR	VIS + NIR	VIS + NIR
Air Nozzles	96	192	288
Nozzle Pitch	6 mm [0.23"]	6 mm [0.23"]	6 mm [0.23"]
User Interface	18.5" LCD touch screen monitor	18.5" LCD touch screen monitor	18.5" LCD touch screen monitor
Remote Connection	Ethernet/Wi-Fi	Ethernet/Wi-Fi	Ethernet/Wi-Fi
Conveyor Speed	120-240 m/min [394-787 ft/min]	120-240 m/min [394-787 ft/min]	120-240 m/min [394-787 ft/min]
Frame	Stainless steel AISI 304 or AISI 316L	Stainless steel AISI 304 or AISI 316L	Stainless steel AISI 304 or AISI 316L
Weight	1700 kg [3800 lbs]	2000 kg [4400 lbs]	2300 kg [5100 lbs]

UTILITIES

Power Supply	3F+T [3PH+GND]	3F+T [3PH+GND]	3F+T [3PH+GND]
Voltage	400/480 V	400/480 V	400/480 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Protection Class	IP67	IP67	IP67
Consumed Power	5 kW	6 kW	7 kW
Quality	Tap water (max 8°D, Fe < 0,2 mg/l)	Tap water (max 8°D, Fe < 0,2 mg/l)	Tap water (max 8°D, Fe < 0,2 mg/l)
Water Temperature	< 50°C	< 50°C	< 50°C
Water Pressure	1-3 bar [15-44 psi]	1-3 bar [15-44 psi]	1-3 bar [15-44 psi]
Water Consumption	1-2 m3/h [264-792 gal/h]	1-2 m3/h [264-792 gal/h]	1-2 m3/h [264-792 gal/h]
Water Connection	1"	1"	1"
Quality	ISO norm 8573-1:2010	ISO norm 8573-1:2010	ISO norm 8573-1:2010
Class	1.4.4	1.4.4	1.4.4
Filter	0.1 µ Dry	0.1 µ Dry	0.1 µ Dry
Air Pressure	6-8 bar [87-116 psi]	6-8 bar [87-116 psi]	6-8 bar [87-116 psi]
Air Consumption (Typical)	1300 NI/min [46 Ncuft/min]	2500 NI/min [88 Ncuft/min]	3800 NI/min [134 Ncuft/min]
Air Consumption (Maximum)	1800 NI/min [64 Ncuft/min]	3500 NI/min [123 Ncuft/min]	5300 NI/min [187 Ncuft/min]
Air Connection	1"	1"	1"