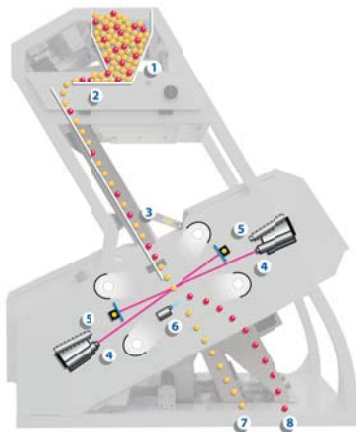


SEA TRUE COLOR SORTER



PROCESS

- 1 In-feed hopper
 - 2 Vibrating feeder
 - 3 Feeding chute
 - 4 Inspection system (ultimate 4096 pixels Smart cameras full-color RGB cameras, front & back, for the standard version)
 - 5 LED lighting system
 - 6 Ejectors
 - 7 Selected product
 - 8 Reject
- Up to 4 sections for simultaneous resorting
 - Available in configuration with re-sorting, re-resorting or reverse sorting



TECHNICAL CHARACTERISTICS

USER INTERFACE

- CMOS technology
- 15" color touch screen, intuitive graphics and multilingual interface
- By photographic acquisition, the sorter image processing system compares the object to user-defined accept or reject elements.
- Main information and functions:
 - Machine status (vibrators and sensitivity on/off per section)
 - Recipes (up to 200 stored in the machine)
 - Level sensor (product control inside the hopper)

- Alarms and smart explanation for the restoration of the machine function in case of anomalies
- Total and partial hour counter

OPTICAL SYSTEM

- Ultimate 4096 pixels full-color RGB smart cameras (front & back), for the standard version. The system works in the visible spectrum looking almost like the human eye
- Additional NIR and/or InGaAs cameras
- Scan rate: 18.000 scan./s
- Optical resolution: 0,06 mm
- The software can control 8 families of defects
- LED lighting and active background

EXPULSION SYSTEM

- N.54 ejectors per chute
- Ejectors working speed up to 1.000 cycles/s, guaranteed up to 2 billions cycles (open/close time)

ELECTRICAL SYSTEM

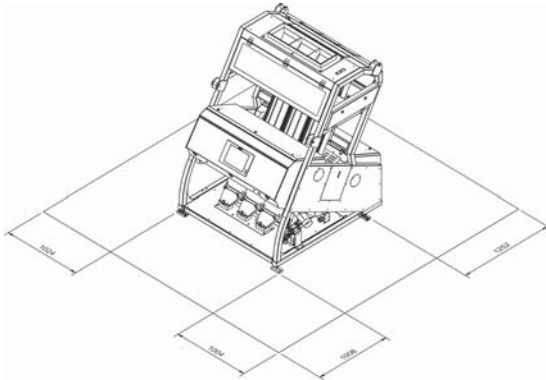
- Organized in easy replaceable electronic boards, using the latest technology
- Self-control functions (self-diagnosis and self-calibration) guarantee excellent operational stability
- The Windows 7 embedded graphic interface assures an easy connection to company network and to remote assistance systems.
- Ethernet connection allows real-time monitoring and web-based remote assistance

MECHANICS

- Available from 1 to 7 chutes
- Reversible chutes with one smooth side and one with grooves of two different types depending on the product to be selected
- Tilting optical boxes simplify cleaning and maintenance, while pressurization and the airtight structure prevent dust entering
- Automatic cleaning system
- The cooling system grants the ideal temperature inside the optical boxes
- Pre-arrangement for the aspiration system connection

SEA TRUE COLOR SORTER

Leave at least 1 meter of free space around the machine.
Keep the machine far from direct and strong light sources.



TECHNICAL DATA:

- Standard color: white RAL 9010
- Working environment temperature: between +3°C and +35°C
- Liquid impermeability and dust protection IP 55
- CE conformity certification
- 2006/42/CE on machinery safety
- 2014/30/CE on Electromagnetic Compatibility
- Compatibility with UL and CSA standards
- Compatibility with ATEX standards (on demand)

EXTERNAL EQUIPMENT REQUIRED FOR THE CORRECT SORTER OPERATION:

For the correct sorter operation, the user must provide and install:

- 230 V - 50 Hz power supply
- Proper voltage stabilizer (strictly necessary)
- Pneumatic system including: rotary compressor, tank, dehumidifier class ISO 8573-1:2010 [5:3:3] ANSI/ISA-7.0.01-1996 with dew temperature -20°C (-4°F) (strictly necessary)
- 1" minimum diameter air supply tube
- Support frame of the machine
- Additional loading and unloading hoppers
- Product conveyors systems
- Fast internet connection

POSSIBLE OPTICAL CONFIGURATIONS

Front			Back		
T		+	T		Standard version. n.2 RGB Full-Color smart cameras per chute (front&back)
T		+	T	N	n.2 RGB Full-Color Smart cameras per chute (front&back) + n.1 additional NIR camera/chute back-side
T	N	+	T	N	n.2 RGB Full-Color Smart cameras per chute (front&back) + n.2 additional NIR camera/chute (front&back)
T		+	T	R	n.2 RGB Full-Color Smart cameras per chute (front&back) + n.1 additional InGaAs camera/chute front-side
T	R	+	T	R	n.2 RGB Full-Color Smart cameras per chute (front&back) + n.2 additional InGaAs camera/chute (front&back)
T	N	+	T	R	n.2 RGB Full-Color Smart cameras per chute (front&back) + n.1 additional NIR camera/chut front-side + n.1 additional InGaAs camera/chute back-side



	TRUE 1	TRUE 1.5	TRUE 2	TRUE 3	TRUE 4	TRUE 5	TRUE 6	TRUE 7	
No. of vibrating feeders/chutes	1	1.5	2	3	4	5	6	7	
No. of cameras (front/back)	2 - 4	2 - 4	4 - 8	6 - 12	8 - 16	10 - 20	12 - 24	14 - 28	
No. ejectors/chutes	54	77	108	162	216	270	324	378	
Compressed air consumption (max. value at 6 bar) l/s	8.4	12.6	16.8	25.2	33.6	42.0	50.4	58.8	
Compressed air connection Ø	1"								
Power supply/frequency V/Hz	230 / 50 - 1 Ph (L + N + PE)								
Power consumption (max. value) kVA	1.5	1.5	1.5	1.5	2.5	2.5	3.5	3.5	
Power absorption (max. value) A	7	7	7	7	12	12	16	16	
Machine dimensions	Width mm	1000	1000	1600	1600	2050	2050	2580	2580
	Depth mm	1690	1690	1690	1690	1690	1690	1690	1690
	Height mm	2100	2100	2100	2100	2100	2100	2100	2100
Weight kg	700	750	950	1000	1150	1200	1350	1400	