

SEA NEXT COLOR SORTER



PROCESS

- 1 In-feed hopper
 - 2 Vibrating feeders
 - 3 Feeding chutes
 - 4 Inspection system (high-resolution CCD cameras with 2048 pixels, front & back, for the standard version and optional NIR and InGaAs cameras)
 - 5 LED lighting system
 - 6 Ejectors
 - 7 Selected product
 - 8 Reject
- Up to 4 sections for automatic resorting
 - Available in configuration with re-sorting, re-resorting or reverse sorting

- Optical resolution: 0,1 mm
- Possibility to handle up to 4 simultaneous thresholds of dark and clear sensitivity
- Defect size control and adjustment
- Extreme flexibility in image processing, with the sorter sensitivity setting based on colour/transparency and dimension of defects to sort out
- White or RGB LED lighting

EJECTION SYSTEM

- N.54 per chute
- Ejectors working speed up to 1.000 cycles/s
- Guaranteed up to 2 billion cycles

ELECTRONIC SYSTEM

- Organized in electronic boards of easy substitution and of latest technology
- Self-control functions (self-diagnosis and self-calibration) guarantee excellent operational stability
- Program settings and adjustments are performed through a user-friendly software
- Extremely easy and fast recipes change
- 15" color touch screen and multilingual interface
- The Windows 7 embedded graphic interface assures an easy connection to company network and to remote assistance systems.
- Ethernet connection allow 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 airtight prevent dust from entering
- Automatic cleaning system
- The cooling system grant the ideal temperature inside the optical boxes
- Pre-arrangement for the aspiration system connection



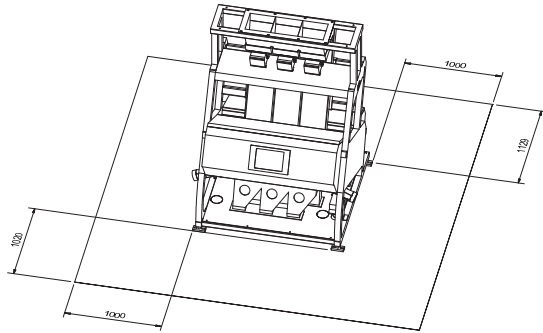
TECHNICAL CHARACTERISTICS

OPTICAL SYSTEM:

- High-Resolution CCD cameras with 2048 pixels (front & back), for the standard version. The system works in the visible spectrum.
- Up to 4 cameras per chute for monochrome, bi-chrome, NIR and InGaAs configurations

SEA NEXT COLOR SORTER

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

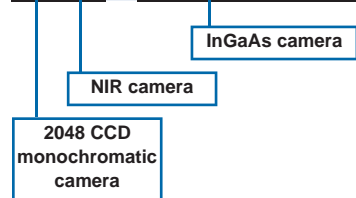


TECHNICAL DATA:

- 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)

POSSIBLE OPTICAL CONFIGURATIONS

Front		Back		
M		+	M	Standard version. n.2 CCD cameras/chute (front/back)
N		+	N	n.2 NIR cameras/chute (front/back)
M		+	M M	n.2 CCD cameras/chute (front/back) + n.1 additional CCD camera/chute back-side
M		+	M N	n.2 CCD cameras/chute (front/back) + n.1 additional NIR camera/chute back-side
M		+	M R	n.2 CCD cameras/chute (front/back) + n.1 additional InGaAs camera/chute back-side
D		+	D	n.2 CCD cameras/chute front + n.2 CCD cameras/chute back-side
M	N	+	M N	n.2 CCD cameras/chute (front/back) + n.2 additional NIR cameras/chute (front/back)
M	R	+	M R	n.2 CCD cameras/chute (front/back) + n.2 additional InGaAs cameras/chute (front/back)
M	N	+	M R	n.2 CCD cameras/chute (front/back) + n.1 additional NIR camera/chute front-side + n.1 additional InGaAs camera/chute back-side



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

		NEXT 1	NEXT 1.5	NEXT 2	NEXT 3	NEXT 4	NEXT 5	NEXT 6	NEXT 7	
No. vibrating plates/chutes		1	1.5	2	3	4	5	6	7	
No. cameras (front/back)		2 - 4	2 - 4	4 - 8	6 - 12	8 - 16	10 - 20	12 - 24	14 - 28	
No. ejectors/chute		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	
Dimensions	Width	mm	1560	920	1560	1560	1950	1950	2540	2540
	Depth	mm	1550	1715	1550	1550	1550	1550	1550	1550
	Height	mm	2100	2100	2100	2100	2100	2100	2100	2100
Weight	kg	655	660	705	735	845	955	1150	1200	