

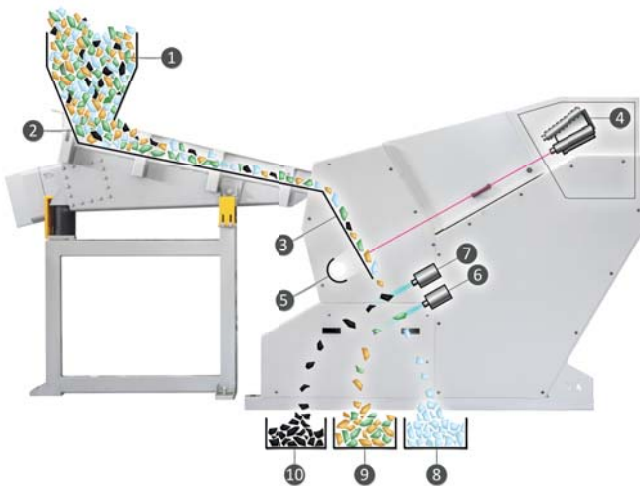
SEA VETRO SORTING MACHINE



WORKING PROCESS

- 1 Additional in-feed hopper (not included)
- 2 Horizontal vibrating feeder
- 3 Sloping chute
- 4 RGB Full-color cameras
- 5 Led lighting and background
- 6 Ejectors
- 7 Additional line of ejectors (option)
- 8 Selected product
- 9 Reject 1
- 10 Reject 2

Metal detector available (option)



The diagram refers to SEA VETRO into 3-ways version.

TECHNICAL CHARACTERISTICS

OPTICAL SYSTEM:

- Ultimate RGB Full-color cameras in front of product's flow, allows the perfect control and sorting accuracy.
- Combined with HSI software system. The system works in the visible spectrum looking almost like the human eye
- Scan rate: 18.000 times/s

- Optical resolution: 0,2 mm
- The software can control 16 families of defects
- Shape-sizing integrated into the system
- Control and adjustment of the defect size
- LED lighting and background (UV neon for leaded glass version)

EJECTION SYSTEM

- All models can be equipped with one or two lines of ejectors: 2-ways standard version or 3-ways version (optional)

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
- 15" color touch screen, intuitive graphics and multilingual interface
- The interface allows to directly control the product real images and to modify the recipes in an easy and fast way
- 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

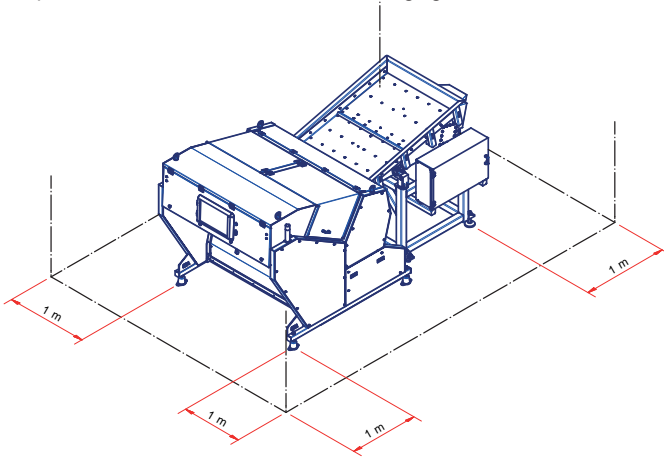
MECHANICS

- Available versions: medium (M) and large (L) for separation of CSP (ceramic, stone, porcelain), metals, other contaminations, and for color sorting (flint, amber, green and others)
- Tempered glass chute
- The horizontal vibrating feeder can be divided into two sections to handle two different sized materials
- Pressurization and airtight optical boxes prevent dust entering
- Automatic air and water cleaning system
- The cooling system grants the ideal temperature inside the optical boxes
- The two doors on top of the machine can be opened for cleaning and maintenance

Special version available for leaded glass separation.

SEA VETRO SORTING MACHINE

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



TECHNICAL DATA:

- Machine standard color: white RAL 9010
- Machine power supply: 230 VAC 50/60 Hz single-phase
- Feeder power supply: 400 VAC 50/60 Hz three-phase
- Working environmental temperature: between +3°C and +35°C
- Liquid impemeability and dust protection IP 55
- CE conformity certification
- 2006/42/CE 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:

- Proper voltage stabilizer (strictly necessary)
- Pneumatic system including: rotary compressor, tank, drier, filter 5 µm, filter 1 µm, filter 0.01 µm (strictly required)
- 1" minimum diameter air supply tube
- Support frame of the machine
- Additional loading and unloading hoppers
- Product conveyors systems
- Fast internet connection
- Water supply

		VETRO MC1 CSP-Color	VETRO MC2 CSP-Color	VETRO ML1 Leaded glass	VETRO LC1 CSP-Color	VETRO LC2 CSP-Color	
Horizontal vibrating feeder		included					
Chute width	mm	1050	1050	1050	1650	1650	
RGB Full-color cameras		2	2	2	3	3	
No. ejectors/chute		128	256	128	192	384	
Compressed air consumption (max. value at 6 bar)	l/s	45	45	45	70	70	
Compressed air connection	inch.	1"					
Machine power consumption (max. value)	kVA	1,0	1,0	1,0	1,5	1,5	
Feeder power consumption (max. value)	A	15	15	15	15	15	
Machine dimensions	Width	mm	1900	1900	1900	2300	2300
	Depth	mm	2100	2100	2100	2100	2100
	Depth w/vibr. feeder	mm	3640	3640	3640	3640	3640
	Height	mm	1700	1700	1700	1700	1700
Machine weight	kg	950	1100	950	1150	1300	
Horizontal vibrating feeder weight	kg	680	680	680	900	900	