

PelletScan™



The new PelletScan is a high resolution optical color sorter system designed specifically for the removal of black specks and off color pellets.

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- * PelletScan was developed in response to industry needs for a system with higher optical resolution than was available.
- * With detection capability down to 0.1 mm diameter size, PelletScan has 3 times better optical resolution than the system it replaces.
- * Dual Pass concept for maximum accept product purity.
- * On line or batch operation system.
- * Multiple high speed ejector valves minimize good product loss.
- * Capacity range from 2,500 to 5,000 lbs. per hour depending on product density.
- * PelletScan joins other Satake optical sorters such as ScanMaster and ColorMaster which are well established in the plastics industry on applications such as pellets, flakes and regrinds.



SPECIFICATIONS

Model	PelletScan
Optical Resolution	The PelletScan has the capability of detecting defects down to 0.1 mm in diameter. Camera resolution < 0.1 mm (note 1)
Pellet Type	Cylindrical or hemispherical pellets of nominally 3 mm diameter
Capacity	2,500 to 5,000 lbs per hour (1.0 – 2.2 tph) depending on bulk density
Main Applications	Plastic pellets and virgin resins
Defects	Black specks, off color pellets
Feeder Type	Electromechanical vibratory feeder
Conveyor Section	Dual pass using two belt conveyors (belt width – 22.5” (571 mm), Length – 36” (900 mm). Material urethane continuous belting. Belt speed: 0.9 m/sec
Viewer Section (2 each)	Light source: 39-watt T5 high frequency fluorescent lamps-4 per viewer. Cameras: Each camera has 88 mm scan line with the 6 cameras providing a total viewing width of 20.78” or 528 mm. Ejectors: Valves-96 per viewer, pitch 5.5 mm
Required Power	200-480V 50-60Hz. Single phase AC – 1.5 kva Air conditioner – 1.1 kva nominal – Internal UPS
Required Air	40 – 60 cfm @ 100 psi (note 2)
Ancillary Units	Air conditioner: Viewer and other electronics Static electricity: De-ionizer bars Monitor: Touch screen
Alarm	E-stop, door interlock, hopper empty, low air, viewer power, lamp fault, conveyor fault, belt speed fault, over-temperature fault, ejector fault
Environment	Ambient temperature: 0-35C, 32° - 95° F Relative humidity: 90% or below
Net Weight	3,000 lbs. (1,400 kgs.)
Dimensions	9.14 ft. (279 cms) length x 5.88 ft. (179 cms) height x 5.81 ft. (177 cms) width.

Note:

1. The accuracy and capacity of sorting may vary depending on the type and color of the material and the type of defects in the incoming product.
2. Air consumption will vary according to incoming defect level and product type.
3. Specifications subject to change without notice.