

SATAKE

Intelligent sorting solutions.

PELLET SORTER

PCS600BFD

Precision optical sorting technology that removes small speck damage and discolored pellets for maximum purity and yield quality.

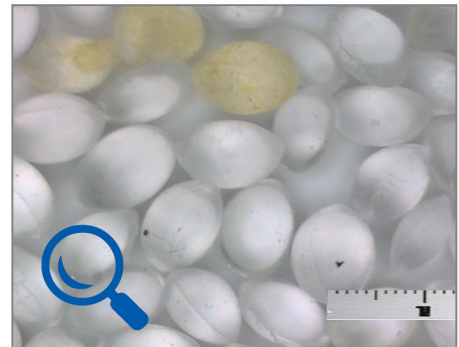
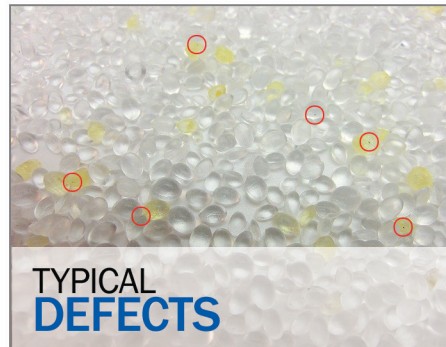
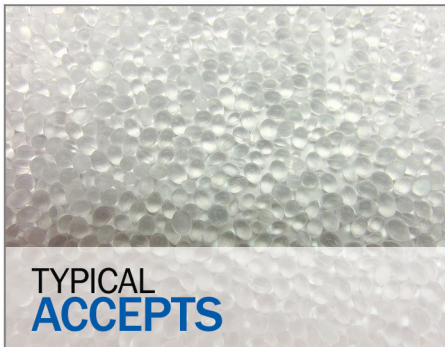
CABLE | MEDICAL | OPTICS | AUTOMOTIVE | COMPOUNDS



2PASS
SYSTEM

0.06mm
RESOLUTION

Precision inspection, detection and removal of black speck, discolored and other damaged pellets.



Satake has drawn on its extensive experience in the field of color sorting to develop the **Pellet Sorter, an optical sorter specifically designed to sort plastic pellets.** Raw materials are fed at a carefully controlled flow rate to the conveyor belt, where a line of precision cameras scan each individual pellet. Rejected materials are then removed from the product stream by compressed air jets. This machine features a two-stage sorting system, increasing the purity and quality of the inspected product and maximizing its value.

PELLET SORTER (PCS600BFD) SPECIFICATIONS	
Capacity	Plastic Pellets: Up to 6,000 lbs/hr (*)
Power Source	Single Phase 200V
Required Power	Maximum 3.8kW
Dimensions	86.6"W x 64.9"D x 76.1"H (2200mm x 1650mm x 1933mm)
Machine Weight	1,500 kg
Material	Main Body: Stainless Steel 304
Sorting Method	Two Stage Sorting with CCD Sensors
Flow Rate Control	Electromagnetic Feeder and Vibratory Sensor
Belt Conveyor	Effective Width: 590mm x 850mm (2x Belts per Sorter)
Static Electricity Removal	Air Blow Deionizer System (4 Units)
Sensors	CCD Cameras x 10 (5 Cameras per Stage)
Resolution	0.06mm x 0.06mm - 2,048 pixels
Light Source	Flouresent Lamps x 12 (6 Lamps per Stage)
Control Panel	Touch Screen Windows Operating System
Air Volume	40 - 60 CFM (Compressor 11.0 - 15.0 kW)
Supplied Air Pressure	0.25 MPa (0.7 MPa Supply)
Suction Air Volume (Optional)	Main Unit: 706 CFM (1.0 kW)
*Processing capacity and machine performance may vary depending on material being sorted.	



SORTING REMOVAL

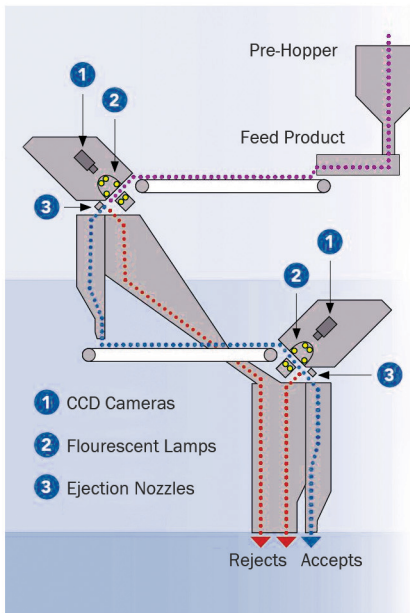
- Black Specks • Spots
- Impurities • Oxidation
- Foreign Materials • Discolorations
- Adhesions • Dye Drops



High quality plastic pellet inspection for the most precise applications within the **cable, medical, optics, automotive and compounding industries.**

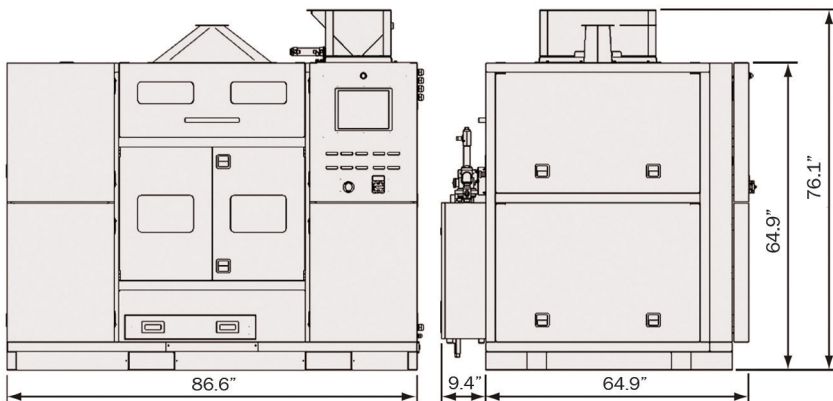
PELLET SORTER (0.06)

Contamination Size Chart (mm)



DIAMETER SQUARED

0.160	•	0.02
0.252	•	0.05
0.357	•	0.10
0.505	•	0.20
0.618	•	0.30
0.714	•	0.40
0.874	•	0.60
1.009	•	0.80
1.128	•	1.00
1.596	•	2.00
2.257	•	4.00





SATAKE

www.satake-usa.com/pellet-sorter

If you are interested in a free **Pellet Sorter** demonstration using your own product, or if you need more information, contact one of our local test facilities.

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