

OCS

Optical[®]
Control
Systems



PS800C

High speed pellet scanning system

PS800C

The new generation of
high speed pellet scanning systems





Optical Control Systems (OCS) is operating for the 3rd decade in the field of optical quality control for the polymer and petrochemical industries and worldwide successful in the film, powder and pellet inspection systems. The development of the PS800C is a unique combination of on-line product quality control and simultaneous quantitative sorting in production scale.

Equipped with two colour line scan cameras, located opposite of each other for defect detection with 100 µm (25/50µm black/white) resolution and 800 kg/h throughput the system provides a precise measurement of contaminations, discolorations and other impurities in different size classes and coloration. The storage of particle analyses and permanent availability of measuring results assure excellent statistic measuring performance and ideal production and process control.

To meet customers' special requirements in an optimal way a first type of PS800C is available. It is equipped with one 3-CMOS-Color Line Camera used to measure particle impurities of 100 µm at a throughput of 800 kg/h.



Specially designed for quality control of super transparent resin;
Exact determination of masterbatch and compounder material



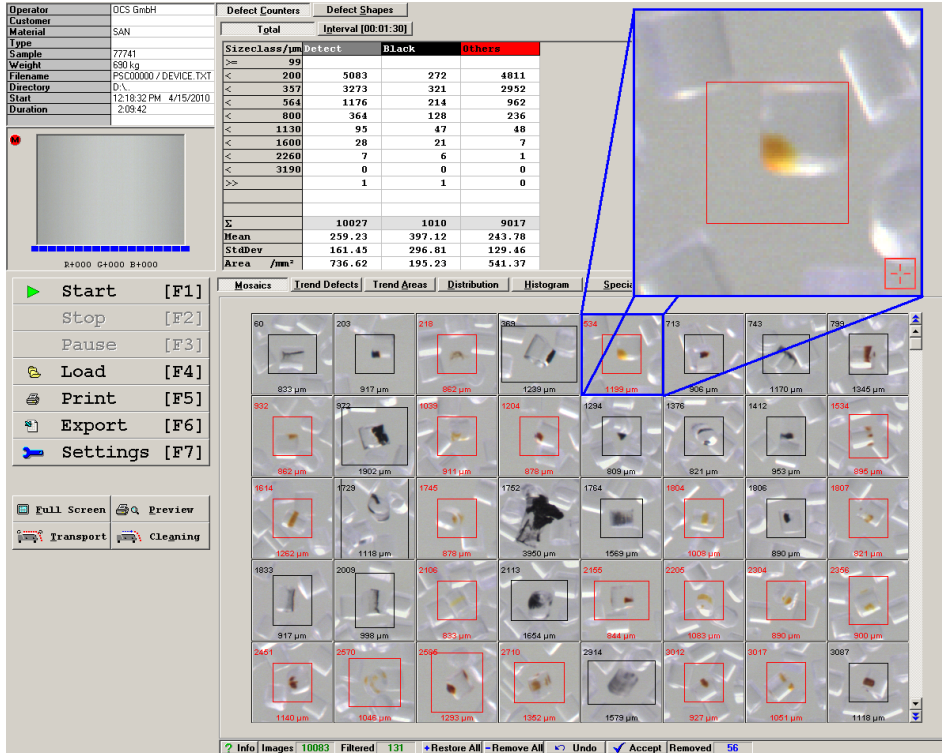


The superb way of detection, assuring top and bottom side inspection, make the PS800C the new discovery of resin quality control systems of the year 2014.

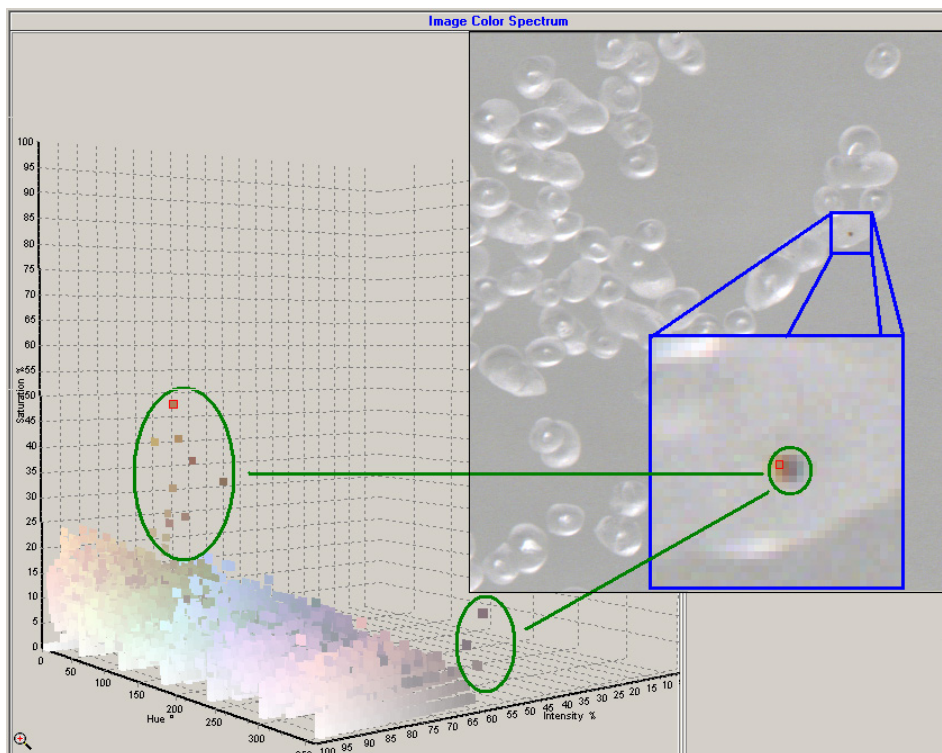
As spin-off combined with highest throughput it can get used to exactly determine the mixing ratio of masterbatch and compounder materials.

Particularly interesting for raw material producers is the optimum inspection of super transparent pellets for quality control applications, which was very critical until today due to their reflecting properties. A special lighting assembly generates an adequate homogenous environment to measure super transparent pellets. Frequently occurring measurement errors are compensated resulting in an excellent quality control of this upscale material and avoidance of scrap.

Technical data PS800C



Exact defect detection and visualization



- **Material:**
Especially designed for super transparent pellets
Opaque pellets
Coloured granules
Transparent granules
- **Designed for:**
Contamination detection
Contamination sorting (optional)
Determination of masterbatch and compounder material
- **Setup:**
Material acceleration by conveyor belt
Material dosage by vibration feeder
Material scanning in “free fall”
- **Camera:**
3-CMOS-Colour Camera = 100 µm defect (colour detection)
1-CMOS-Chip line scan = 25/50 µm defect (black/white detection)
Automatic shading correction
Automatic white balance
Automatic brightness control
- **Throughput:**
Up to 800 kg/h
- **Sorting unit:**
Optional, up to 18 flaps
- **Power supply:**
230 VAC / 50-60 Hz, 1200 W (total)
(others on request)



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