



The Solution for the Polymer Industry



High Speed Pellet  
Scan System  
PS200C



The Original by OCS

# High Speed Pellet Scan System PS200C



## Pellet Scan System PS200C

The PS200C inspection system is used to analyse transparent and opaque pellets. The pellets are inspected with a high-resolution 3-Chip CCD colour camera for impurities, foreign bodies, or colour deviations as well. The testing material is fed into the appliance through a hopper. Feeding can be automated by means of an online hopper. The pellets are conveyed separately over the inspection zone. After the optical evaluation the contaminated pellets can be separated into a different container (sorting unit option).

Measuring errors are eliminated by use of numerous additional optical components. There is no colour dependency as with many other optoelectronic appliances.

A high level of efficiency is achieved by powerful image processing software. The synchronisation of the transport system with the image processing offers a major contribution to the reproducibility of the measurement results.

Installation in the bypass guarantees production monitoring and rapid reaction to any occurrences. The system provides a variety of individual configurations, which guarantee an improved adaptation to specific requirements.

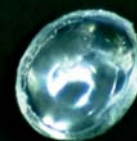
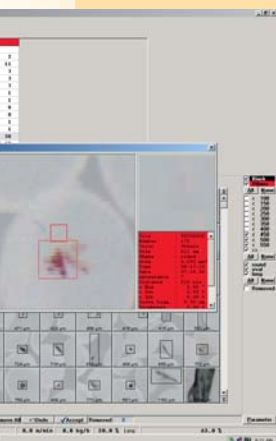
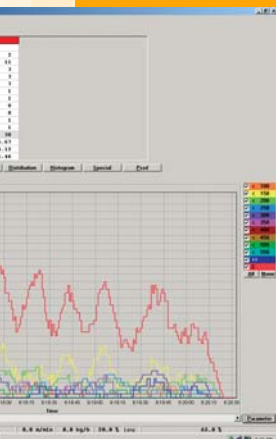
The measurement data are stored in a test report to enable future analysis. The recorded images and measured data can be observed on a screen during the measuring process. The results can be shown and printed in tables or graphs.

Along with a pure inspection of pellets the system can also be used to record, file and document. Each defined deviation is recorded in the measurement protocol via a multidimensional characteristics vector with an error map.

The system can be adapted exactly to the respective requirements with the help of the extensive software packages.

## Performance Characteristics

- **Modular architecture**  
Easy to extend, simple, adaptation and upgrade
- **Controls**  
Menu-controlled windows interface and easy customisation
- **Optimum lightning technology**  
Use of special lightning technology, therefore independent of the material
- **Real-time colour image analysis**  
Fast evaluation and representation of the measurement results in various forms. Table with size classifications, time evolution, mosaic view, histogram, distribution.
- **Inspection synchronisation**  
Transport unit, inspection unit and sorting unit (optional) are coordinated exactly to one another
- **Sorting device**  
Sorting and separate collection of contaminated pellets
- **Tables**  
Tabular display according to size, shape and colour



## Applications

- **Mosaic Display**  
Continuous display of the defected deviations as real images
- **Feature graphics**  
Graph of the distribution over sizes, shapes and colours
- **Time characteristics**  
Graph of the distribution of the characteristics according to time evolution
- **Process synchronisation**  
Coupling the inspection system with external appliances, e.g. BDE or SAP interface
- **Interfaces for external appliances**  
Alarm interface and digital scales
- **Open database**  
The recorded data can be converted into all standard file formats

- **Opaque pellets**
- **Coloured pellets**
- **Transparent pellets**
- **Material throughput up to 250kg/h**

## Technical Data

- **Camera**  
3-Chip CCD colour matrix camera
- **Lightning**  
High Frequency synchronised fluorescent lamp  
White light spectrum
- **Computer**  
Industrial CPU: Intel Pentium 4, up-to-date technology
- **Interfaces**  
Ethernet 10/100 M Base-T, Digital and analogue I/O, USB, MODBUS, PROFIBUS, RS232 BDE, SAP interface or SQL

- **Remote control**  
Extender max. 100 m  
Service Remote control
- **Software**  
Operating system Windows XP
- **Size**  
Dimension (l, w, h) 650 x 770 x 770 mm  
Weight approx. 100 kg
- **Connection values**  
Power supply 230 V AC / 115 V AC
- **Temperature**  
10 – 45 °C

Technical alterations are reserved.

## Benefits

- **Optimising the production process through detailed characteristics specifications**
- **24 hour online production surveillance**
- **Trend analysis parallel to production**



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