

## Pellet Analysing System (PA66)

The modular OCS Pellet Analysing System (PA66) consists of the following components:

- The Pellet Scanner (PS25C) detects impurities that show a colour deviation from the product
- The Pellet Size and Shape Distribution Measurement (PSSD) classifies pellets (oversize and undersize, abrasion, agglomerates, etc.) according to their morphological properties
- The Colour Measurement (CM3) measures relevant colour values (Yellowness Index , Whiteness Index , CIE L\*a\*b\*, etc.) based on the recorded colour spectrum (optional)

A further advantage is the data transfer of real-time results to the production and process control.

### Testable Raw Materials

- Highly transparent pellets
- Opaque pellets

### Includes

- OCS Pellet Scanner (PS25C)
- OCS Pellet Size and Shape Distribution Measurement (PSSD)

### Features of the Pellet Scanner (PS25C)

- High-performance 3CMOS colour matrix camera
- Smallest detectable contamination size: 10 µm
- Throughput rate of up to 25 kg/h depending on pellet properties

### Sales Team



T +49 2302 95622-0  
F +49 2302 95622-33  
info@ocsgmbh.com  
www.ocsgmbh.com

### Address

OCS Optical Control Systems GmbH  
Wullener Feld 24  
58454 Witten  
Germany

- Visualisation of the real-time results
- Multi-track flap system for sorting out contaminated pellets (optional)

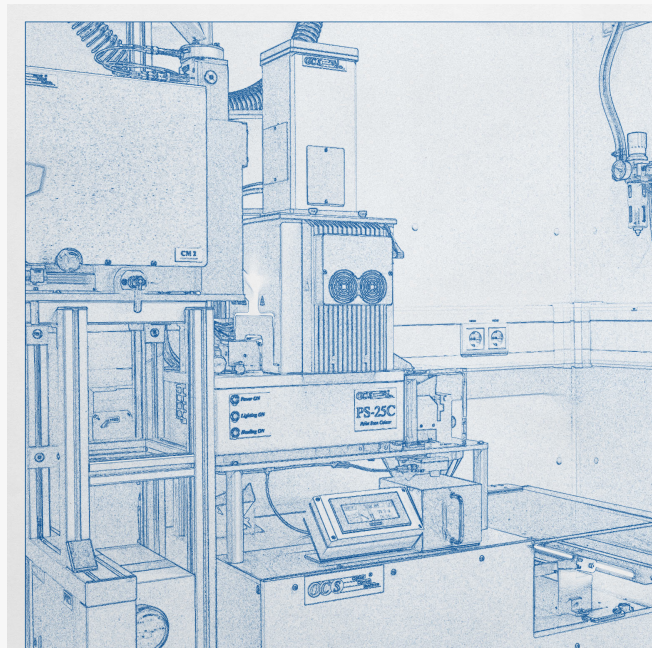
## Features of the Pellet Size and Shape Distribution Measurement (PSSD)

- High-performance CMOS line scan camera (monochrome)
- Smallest detectable contamination size: 71 µm
- Throughput rate of up to 18 kg/h depending on pellet properties
- Visualisation of real-time results (using Pellet Scanner PS25C)

### Technical Details

#### Pellet Scanner (PS25C) and Pellet Size and Shape Distribution Measurement (PSSD)

Camera	PS25C: high-resolution 3CMOS colour matrix camera PSSD: high-speed CMOS line scan camera (monochrome)
Resolution	PS25C: 10, 20, 30, 40, 50, 60, 100 µm PSSD: 71 µm
Lighting	high-power LED with white light spectrum
Communication protocol (via Pellet Scanner PS25C)	MODBUS (RTU, TCP/IP), PROFIBUS, PROFINET, OPC (Server/Client), CSV file, customer-specific

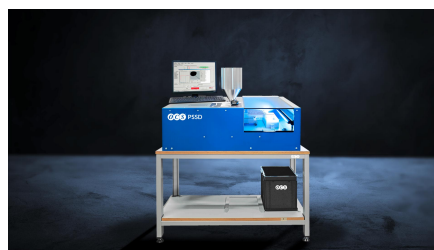


## Similar Products



### Colour Measurement (CM3)

With the OCS Colour Measurement (CM3) all types of pellets can be analysed by means of a colour spectrometer in a measuring channel with an inspection glass. The CM3 is usually connected upstream of the Pellet Scanner (PS25C). This scanner determines relevant colour values (Yellowness Index, Whiteness Index, CIE L\*a\*b\*, etc.) based on the recorded colour spectrum. [vc\_column width="1/2"]



### Pellet Size & Shape Distribution Measurement (PSSD)

With the OCS Pellet Size and Shape Distribution System (PSSD), all types of pellets can be analysed in free fall using a line scan camera. The system classifies pellets (over- and undersize, abrasion, agglomerates, etc.) according to their morphological properties. Further special features of the



### Pellet Scanner (PS25C)

With the OCS Pellet Scanner (PS25C), highly transparent and opaque pellets can be analysed on a vibration plate using a colour matrix camera. The system detects impurities that show a colour deviation from the product. An additional feature of the PS25C is a multi-track flap system (optional), which sorts out the contaminated pellets. Further advantages are the data transfer of the real-

Testable Raw Materials All types of pellets  
Features Visualisation of real-time results (by means of Pellet Scanner PS25C) [vc\_column width="1/2"] Compatible with OCS Pellet Scanner (PS25C) OCS Pellet Analysing System (PA66) ... [read more on our Website]

PSSD are the monitoring of the pelleting system (degree of abrasion of the cutters), the determination of the pellet weight (with optional weighing system) and the data transfer of the real-time results to the production and process control. [vc\_column width="1/2"] Testable Raw Materials All types of pellets [vc\_column width="1/2"] Features High-speed CMOS line scan ... [read more on our Website]

time results to the production and process control as well as the subsequent evaluation of the sorted-out pellets by further analysis systems. [vc\_column width="1/2"] Testable Raw Materials Highly transparent pellets Opaque pellets Features High-performance 3CMOS colour matrix camera ... [read more on our Website]



## Pellet Transport System (PTS)

The OCS Pellet Transport System (PTS) is a control system that ensures the continuous and automatic transport of plastic granules (pellets) between production lines and measuring systems. The pellets from the production line are removed by pneumatic samplers. The samples are transported through special conveyor pipes, distributed and fed to the corresponding measuring system. This ensures a gentle transport of the pellets to avoid dust and streamers. Features Individual and fully automated transport system for supplying the measuring systems Enables timely readjustment in case of parameter variations (minimisation of scrap) Simple operation via touch panel with optical and ... [read more on our Website]

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