



## X-Ray Pellet Scanner (XP7)

The new OCS XP7 X-Ray Pellet Scanner detects metal defects in highly transparent and opaque pellets, which improves the polymer and product quality. The innovative X-ray technology in the measuring system of the XP7 analyses images of the pellet stream in real time. Due to the different absorption of the X-rays in the metal and in the polymer, the embedded metal particles can be detected from a size of 50 µm. Contaminated pellets are sorted out by a multi-track air nozzle system.

### Testable Raw Materials

- Highly transparent pellets
- Opaque pellets

### Features

- High-resolution X-ray image
- Smallest detectable contamination size: 50 µm
- High-speed throughput rate of up to 600 kg/h depending on pellet properties
- Specially developed for the detection of metal defects in pellets
- High-quality and proven radiation protection
- Visualisation of the real-time results
- Multi-track air nozzle system for sorting out contaminated pellets

### Sales Team



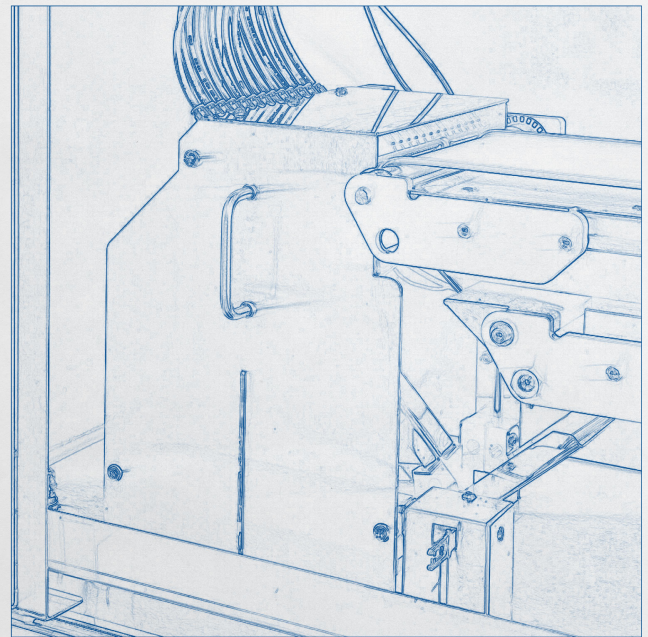
T +49 2302 95622-0  
F +49 2302 95622-33  
[info@ocsgmbh.com](mailto:info@ocsgmbh.com)  
[www.ocsgmbh.com](http://www.ocsgmbh.com)

### Address

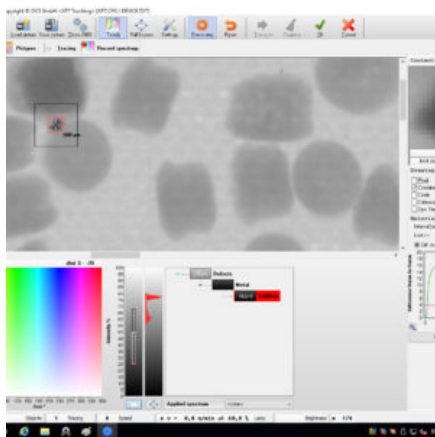
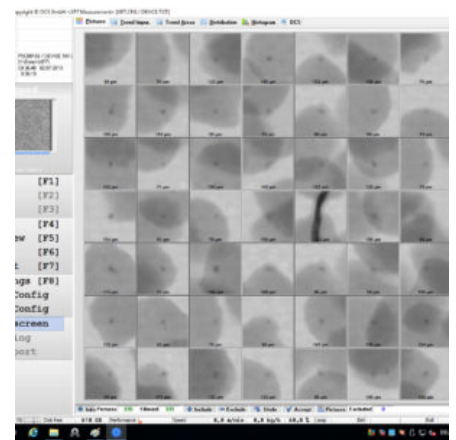
OCS Optical Control Systems GmbH  
Wullener Feld 24  
58454 Witten  
Germany

## Technical Details

<b>Resolution</b>	50 µm
<b>High-voltage generator</b>	Specification max.: 30 kV, 300 W Operated at: 25 kV, 300 W
<b>Communication protocol</b>	MODBUS (RTU, TCP/IP), PROFIBUS, PROFINET, OPC (Server/Client), CSV file, customer- specific
<b>Radiation protection measures</b>	Fully enclosed radiation protection housing; In operation measured dose rate lower than background level; Redundant guard controls with active guard locking; Redundant optical warning lights; Key switch to access the x-ray system



## More Product Pictures



## Similar Products



### 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]



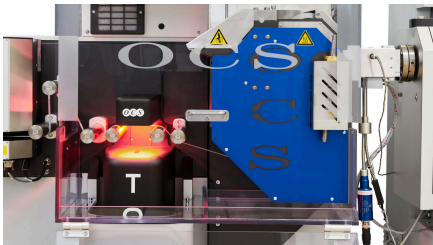
### Pellet Scanner (PS800C)

With the OCS Pellet Scanner (PS800C), highly transparent and opaque pellets can be analysed in free fall using two separate colour line scan cameras (inspection of the front and back of the pellet stream). The system detects impurities that show a colour deviation from the product. An additional feature of the PS800C is a multi-track flap system that sorts out the contaminated pellets. The masterbatch concentration can also be determined. Further advantages are the data transfer of real-time results to the production and process control as well as product improvement through the sorting out of contaminated pellets. [vc\_column width="1/2"] ... [read more on our Website]



### Pellet Scanner (PS200C)

The OCS Pellet Scanner (PS200C) can analyse opaque pellets on a rotating plate using of a colour matrix camera. The system detects impurities that show a colour deviation from the product. An additional feature of the PS200C is a multi-track flap system that sorts out the contaminated pellets. Further advantages are the data transfer of real-time results to the production and process control as well as product improvement through the sorting out of contaminated pellets. [vc\_column width="1/2"] Testable Raw Materials Opaque pellets [vc\_column width="1/2"] Features High-performance 3CMOS colour matrix camera Smallest detectable contamination size: 55 µm Throughput rate of ... [read more on our Website]



### Tape Quality Analyser (TQA100)

The OCS Tape Quality Analyser (TQA100) is used for testing transparent materials (tape) in the wire and cable industry. The high-resolution camera system with a resolution of up to 5 µm and OCS-developed LED illumination with MCE technology (Multi Channel Evaluation) detects impurities such as black specks, fibres and metal particles. With the use of the MCE technology, the system can be adapted to customer-specific requirements and thus further optimise the quality of contamination detection. In the TQA100 software, the measurement results are analysed according to customer-specific presentation of results and defects are classified. All relevant measurement results ... [read more on our Website]



### Surface Quality Analyser (SQA100)

The OCS Surface Quality Analyser (SQA100) is specially designed to detect irregularities on the surface (pips) of polymer films (tape) in the wire and cable industry. The high-resolution CMOS camera system measures the height of the pips with a resolution of 1 µm using a special measuring method. Additionally, the base diameter and the diameter at half the height of the pips are measured with a resolution of 10 µm. The SQA100 software allows the user to define height and diameter classes and classify the measured pips accordingly. All relevant measurement results are clearly displayed and can be exported ... [read more on our Website]

Images, drawings and data are non-binding and subject to modification without prior notice. © 2025. All rights reserved - OCS Optical Control Systems GmbH | Wullener Feld 24 | 58454 Witten, Germany