OCS - Optical Control Systems GmbH

As one of the world's leading manufacturers of optical quality control systems, OCS supplies customised and complete solutions in the fields of digital image processing, optical measurement and automation. Our systems ensure maximum product quality control. With the aid of precision cameras in conjunction with high performance online image processing, even the smallest defects in polymer products are detected, located and analysed in detail. The applications for OCS systems range from laboratory use to complete integration into the production process.

Leading manufacturers in the petrochemicals and polymer industries benefit from these features. In Europe and the USA, Canada, South America and Asia: everywhere in the world, our system solutions are successfully in service. With a highly expert and innovative team of development and production engineers, OCS supplies top level technology and know-how worldwide – always at the leading edge with our systematic research and development work. Our manufacturing processes, delivery, installation and user training are also state of the art. Service to our clients is our paramount aim: in no time we will repair damaged systems worldwide – guaranteed.

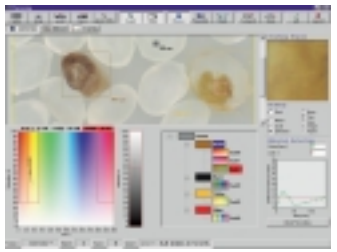
Powder Testing System PT-2C

Optical Control Systems GmbH

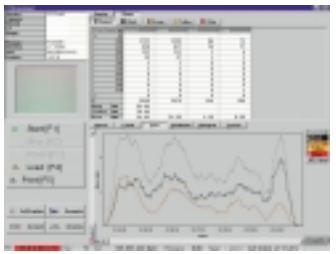
Wullener Feld 36
58454 Witten, Germany
Tel.: +49 23 02/9 56 22-0
Fax: +49 23 02/9 56 22-33
e-mail: info@ocsgmbh.com
http://www.ocsgmbh.com

A system for quality and efficiency

The OCS Powder Testing System (PT-2C), equipped with a colour camera, counts and classifies contaminations. Colour classes can be defined with the "teaching" tool to detect discolorations and foreign bodies which are different in colour from the bulk material, such as PVC, PP, PE etc.



The system is capable of detecting contamination and discoloured powder particles (pink, yellow, brown, black etc.). These irregularities are sorted into different class sizes which are completely user definable. Furthermore, it is possible to define alarm limits. If these are exceeded, a floating contact is activated.

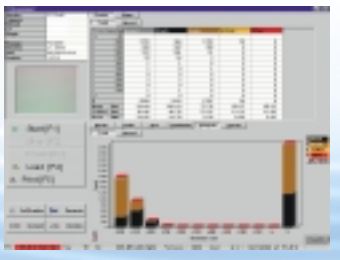


Application

The PT-2C can be used for laboratory purposes as well as for on-line inspection. The powder can be submitted as a sample or it can be withdrawn from the production line by creating a bypass. Using a bypass system gives the user the advantage of direct inspection of the material during the pro-duction process. This allows faster response in order to prevent off-spec production.

Software

The software offers a multitude of configuration possibilities, enabling the user to adapt the system exactly to individual requirements.



The inspection can be observed on a monitor and visible defects marked and indexed. Images of special importance can be stored and the data presented in a variety of graphs and tables. A colour printer documents the results. The data, software settings and the time and duration of the inspection can be easily accessed. This facilitates later or long-term evaluation.

The Powder Testing System (PT-2C) has a rated capability of inspecting up to 1 kg/hour. The actual throughput is dependent on the physical characteristics of the powder.

The system can be integrated in any internal data processing system using an existing software interface, e.g. Ethernet.

The unit is robust and maintenance-friendly

Application

- Improvement of quality (elimination of non-standard product)
- Labour savings
- Accurate and consistent automatic grading
- Reduction of customer returns and complaints
- Fast return on investment (ROI)

Perfect for online and laboratory applications.

.