



OUTOTEC® PELLETSIZE MEASUREMENT SYSTEM FOR STEEL BELT SINTERING AND TRAVELING GRATE PROCESS

Outotec® PelletSize is a reliable and accurate system designed specifically for measuring size of pellets in steel belt sintering and traveling grate processes. Continuous monitoring of pellet size distribution improves the control of pelletizing process and makes it possible to obtain pellets with more consistent properties. The pellet size distribution data can also be used to optimize the process. This optimization will have a positive effect on availability, lifetime of the steel belt and product quality.

BENEFITS

- Real time recording of pellet sizes
- Real time calculation of pellet size distribution
- Easy installation in existing plants
- Removes errors caused by manual measurement

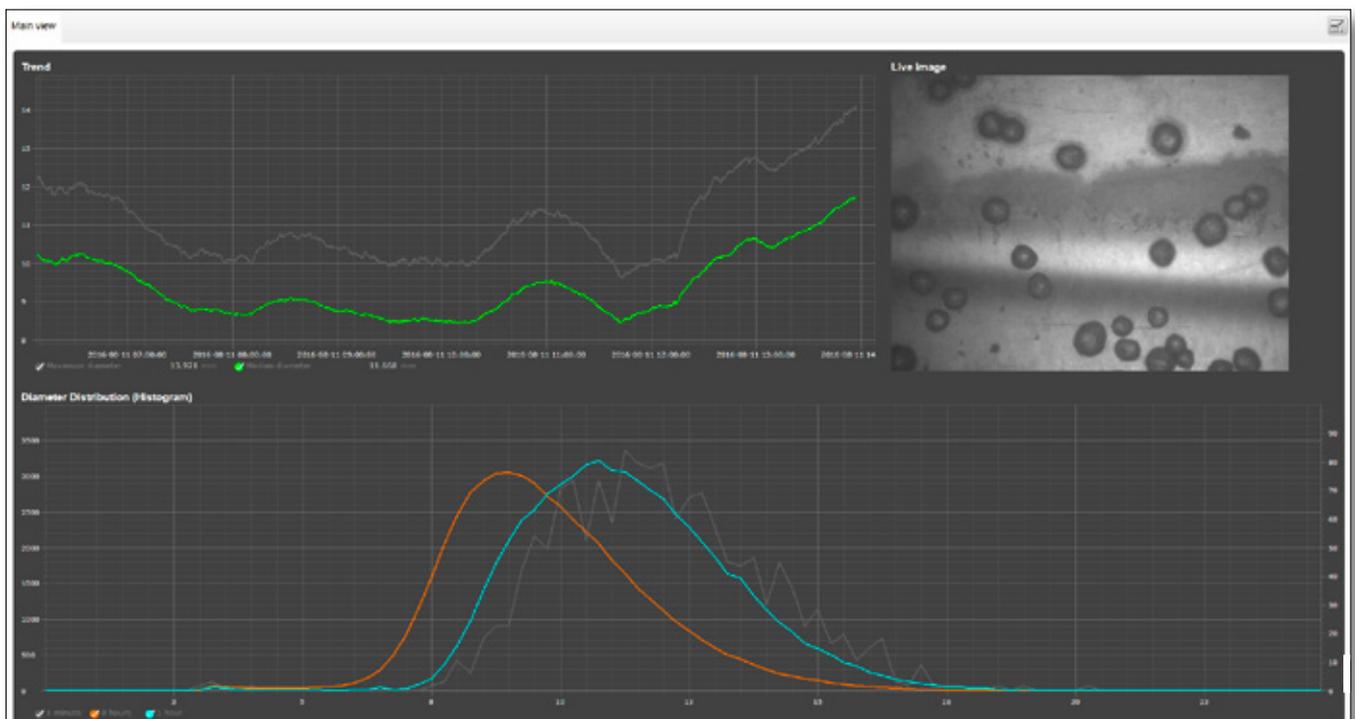
CONTINUOUS MONITORING

The pellet size monitoring system consists of one or several pellet size units (digital smart camera and ring light), field box and monitoring PC attached to a display. Since each camera is equipped with a high intensity flashing ring light, the cameras can take high-quality images of dropping pellets even in difficult lighting conditions. The images are analyzed by the monitoring PC, which determines the pellet sizes, calculates the pellet size distribution, stores the results into a database and shows the data to the user. In addition, the average pellet size data can be sent to the plant automation with analog or digital interface. The information can be used to monitor the pelletising and screening equipment functionality continuously.

Easy to use

The intuitive and easy to use PelletSize user interface shows a real-time image of the pellets on the belt, the average pellet sizes a trend and the pellet size distribution for different time periods.

Since all images and analysis results are saved into database, history of all pellet size averages can be viewed any time at a later date.



Real-time image of pellets and average pellet size a trend.

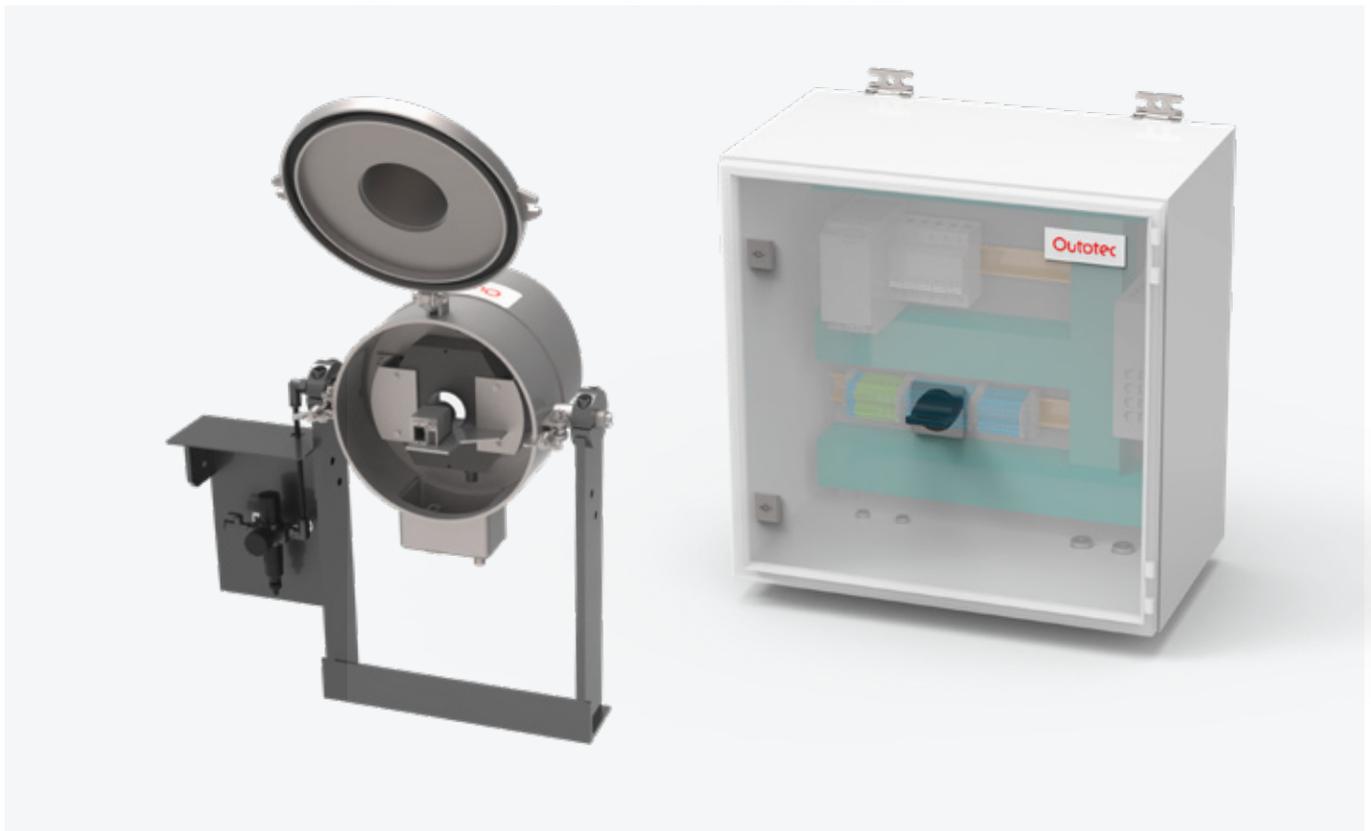
Easy to install and maintain

Outotec PelletSize Measurement System is designed to be easy to install and simple to maintain. A custom-made enclosure protects each camera and ring light from dust, temperature, moisture and impacts. Likewise, the camera power switch and the communication switch are protected by a field box.

All communication between cameras and monitoring PC takes place over Ethernet, which ensures reliable and undisturbed data transformation.

PelletSize calibration is simple: all you have to do is to measure the distance between the dropping pellets and the belt and input the value into the Parameters view.

Outotec PelletSize Measurement System is delivered with standard spare parts that are easily replaceable. This shortens interruptions in operation significantly during breakdowns.



Protective enclosure

Outotec

Outotec develops leading technologies and services for the sustainable use of Earth's natural resources. Our 4,000 top experts are driven by each customer's unique challenges across the world. Outotec's comprehensive offering creates the best value for our customers in the mining, metal, energy, and chemical industries. Outotec had sales of EUR 1.1 billion in 2017, and its shares are listed on NASDAQ Helsinki.

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