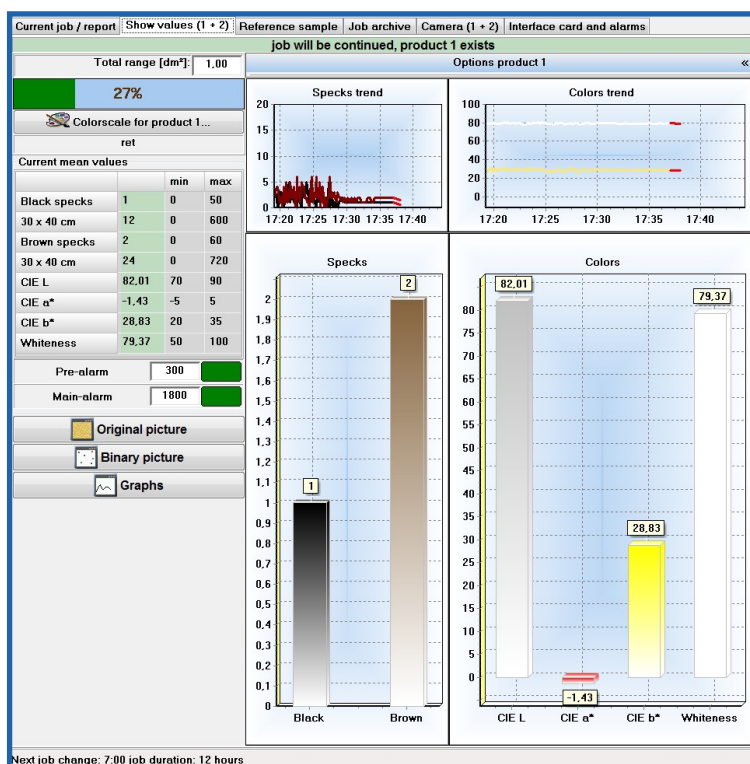


OKS-Online

Increase yield - Reduce energy - Improve quality.

The speckcounter is an online-system for automatic optical inspection of bulk materials such as flour or semolina and allows you to check quality in real time. The assessment is absolutely objective by means of digital image processing.

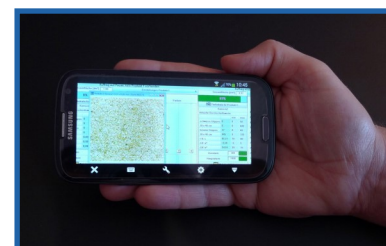
By malfunction, improper conditioning or break of sieves contaminants get into the final product, thus no longer salable. Specks and color changes are the result. The introduced online-system recognizes deviations from the specified tolerances early. Colors are represented in the CIE-Lab range and specks can be classified according to brown and black.



OKS user interface



Bypass with camera



Access via smartphone

The system consists of the following components:

- bypass with screw conveyor in compact stainless steel construction; for manual cleaning purposes the screw conveyor can be drawn out from the casing
- color camera with lighting in a dust-proof stainless steel housing
- top quality PC with long life
- software for acquisition, analysis, display and storage of data
- control box with inputs and outputs



Benefits for the factory

- The user interface is displayed in a convenient Windows interface
- Shows two product lines, as well as all values and alarms simultaneously
- Visualisation of data through graphical charts
- Trend indicator for rapid detection of changes
- Password protected changes of parameters, for example limits, alarms
- For each product, a reference file can be created
- The system offers user configurable alarm outputs with potential-free contacts
- Jobs are stored and are always traceable
- Automatic dispatch of orders, alarms to email, blog and cloud
- User interface in English/ German and extendible to other languages

High measuring accuracy

Before installing an accurate calibration is performed. The calibration afterwards is done locally with samples corresponding to the reference parameters. By this standardized procedure you obtain a very high accuracy. Due to the frequency of measurements (up to 86,000 measurements per day), the system has a higher accuracy than the snapshot-like laboratory measurement.

Reduce costs, improve efficiency

The fully automated system for monitoring the end-products enables you to work much more cost-efficiently and to increase the profit of the company. Through the assistance of real-time monitoring the production is operated closer to the desired quality and there is less flour or semolina wasted in the bran. The amount of final product is increased by up to 2.5%.

Technical specifications

Camera type:	GigE network-camera
Max. resolution:	2592 x 1944 Pixel
Speck size:	> 18µm to freely adjustable
Communication:	LAN/ remote maintenance
Power supply camera:	12 Volt
Lighting:	long life LED
Measured values:	CIE-Lab, whiteness, brown and black specks
Dimensions bypass:	900 * 800 * 400 mm
Power supply engine:	400 Volt, 3 phases



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