Quality monitoring of recovered paper

Problem

The fluctuating quality of recovered paper is one of the greatest disruptive factors in the preparation of secondary fibre pulp in paper mills. The ash content, the content of tacky contaminants (stickies) and the deinkability of graphic papers vary depending on the composition of the recovered paper.

A fluctuating ash content, for example, influences the strength of the finished paper product. Excessively high bale moisture means losses in purchasing. Charges with unusable materials cause recycling costs, massive losses in quality and reduce equipment availability.

Solution

An immediate check of the recovered paper quality in the receiving area makes it possible to react promptly by lodging a complaint or by reducing the value of the delivery.

The PTS Paper Bale Sensor provides the necessary information regarding recovered paper quality. If the bales contain high-quality, homogeneous paper, its surface is checked. If the bales contain mixed paper, a lance probe allows the interior of the bale to be inspected.

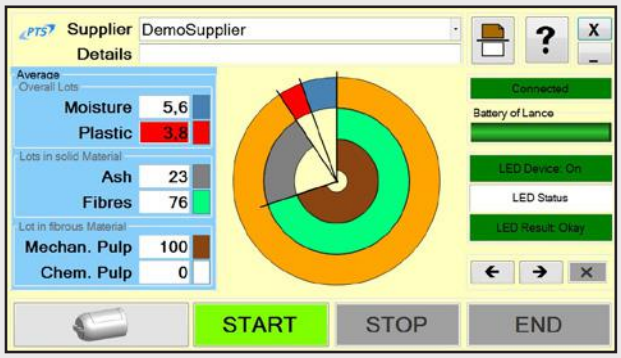
Measurement parameters

• Moisture • Plastic • Ash • Fibre

Evaluation

- Immediate calculation of quality parameters
- Comparison with threshold values and immediate display of results
- Wireless data transfer to tablet PC or server
- Allocation to supplier data
- Archiving of measured data

PAPER BALE SENSOR: Quality monitoring of recovered paper



Numerical display of measured values on PC

Simple user interface

Technical data

Basic unit
Measurements in the NIR range
Dimensions: 900 x 90 x 40 mm
Weight: 2.5 kg
Power supply with battery packs or AC adaptor
IP65

Cut-shaped probe – used for the surface of bales
Ø 20 mm, length 1m
Weight: 1kg

Measuring lance – used for the interior of bales
Ø 20 mm, length 40 cm

PBS with measuring lance

PBS-Tablet

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