BIS 200



BALE INSPECTION SYSTEM





Checking fiber bales for their moisture content is crucial for the control of both the fiber production process and yarn spinning as well as for commercial reasons; but how do you test every single bale most effectively?

Our BIS 200 is designed to be integrated into any conveyor system. It checks every single bale for it's overall moisture content as well as for the moisture distribution within the bale, including the identification of wet or dry spots. BIS 200 gives immediate feedback of the last process steps within viscose fiber production such as drying, opening and baling and hence provides important information for further processes.

BIS 200 works on-line, fully automatically and computer controlled. The results may be transferred to a central computer and/or to an automatic labelling system. A bale's commercial mass can be calculated directly in combination with a bale balance. Bales out of moisture limits can be separated immediately.

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Scope:

Automatic in-line scanning of viscose staple fiber bales for determination of moisture content moisture and distribution throughout the bale together with information about wet and dry spots. The yielded information can be used for optimisation of the moisture management and determination of the commercial bale properties as well as for labelling.

Method:

BIS 200 is made up of a capacitive measuring gate with an isolated measuring conveyor, which is integrated into the existing bale conveyor and a cabinet with the control and evaluation unit. The capacitive measuring gate has reference plates on top and bottom and measuring electrodes on both sides. Every bale passing through the gate is scanned "slice by slice" for its moisture content.

Results:

The result readings display the bale's moisture profile together with any wet or dry spots and its overall moisture content.

Measuring range:

5 - 20 % absolute moisture content

Accuracy:

Better than ± 1 % absolute moisture content per mass

Repeatability:

± 0.5 % moisture content

Results:

Absolute moisture content per mass in %.

Graphic moisture distribution profile with limit levels for verification of wet and dry spots.

Weight input signal:

Analogous, 0 - 20 (4 - 20) mA from optional bale balance, or via RS 232

Power supply:

220 V / 380 V on request

Input for bale specifications:

Fiber type, production line, bale no., weight and other details; use of a bar-code reader optional

Interface for external communication:

PROFIBUS or RS 232

Calibration:

Through calibration factors for different fiber types, packing materials, etc., by comparison with laboratory method (conditioning)

Alarm levels:

Can be specified and set for high and low moisture content as well as for wet and dry spots

Optional:

- Bale balance 0 300 kg
- · Individual conveyor system
- · Labelling station for bales
- OPC UA interface

Technical data and pictures are subject to change!



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