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Research area: Process aims

Converting // Forming

Key words:

Folded box, pharmaceuticals, Braille, embossing, testing, image analysis

Title:**Image analytical measuring of embossed printing on pharmaceuticals****Background/Problem area**

The majority of prepacked pharmaceuticals is sold in a wide variety of folded carton boxes. Thereby the box has to fulfil different functions: protection, promotion and information transfer. According to a European law, which is included in the German "Arzneimittelgesetz", since September 2006 every folded box of a pharmaceutical has to be labelled also in embossed printing.

After the embossing process the quality control department performs manual random checks of the embossed printing to assure the correctness of the information. These checks are not 100% reliable and lead to a dissatisfying situation for the manufacturers.

Objectives/Research results

The objective of this research project is the analysis of different measuring techniques concerning their suitability to measure embossed printings. Furthermore the projects intention is to develop one or more measuring systems for a reliable and automated testing. The main properties of the system are:

- Easy handling of the system
- Reliable and Non-destructive testing
- Use of standard inexpensive elements
- Testing against a reference

Application/Economic benefits

The manufacturers of folded boxes for pharmaceuticals require an automated system to test their products to assure the quality and correctness. Furthermore the pharmaceutical industry needs a system to test the correctness of the embossed boxes before they use it in the packaging machine. In both cases an automatic testing system will lead to an increased working process velocity with a higher reliability.

Project period: 01.03.2006 – 28.02.2008

Remarks

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