

cally signals that the packaging has been manipulated by others. "Other security measures include signs that only appear under UV radiation, heat- and cold-sensitive colours, elastic security strips or slots that make life hard for criminals to open the packaging without leaving visible traces," Hölzle emphasises.

For this purpose the Wehr-based adhesive specialists recommend UV curing hot melt adhesives from their Novarad RC series, which works on an acrylate basis, to their customers. They are a proper substitute for acrylate and solvent based adhesives and help reduce the solvent emissions to a great degree. At room temperature the Novarad adhesives show a honey-like consistency. These are liquefied in barrel melters and, according to their final application, brought to a working temperature of 120-140°C, at which point they are processed by roller or nozzle coating systems. After the coating they are UV cured. For void tapes on



Security tape on a duty free bag

duty-free bags, however, adhesives from the Novamelt PC series are being used.

"Of course, we are also very active in RFID tags, which is a sector that is growing fast," Machei points out. These labels can serve many purposes – used on a subway ticket, for instance, they automatically open all doors until the traveller arrives at his or her final destination.

In their self-adhesive form they can also be helpful in logistics to track luggage at airports or to collect

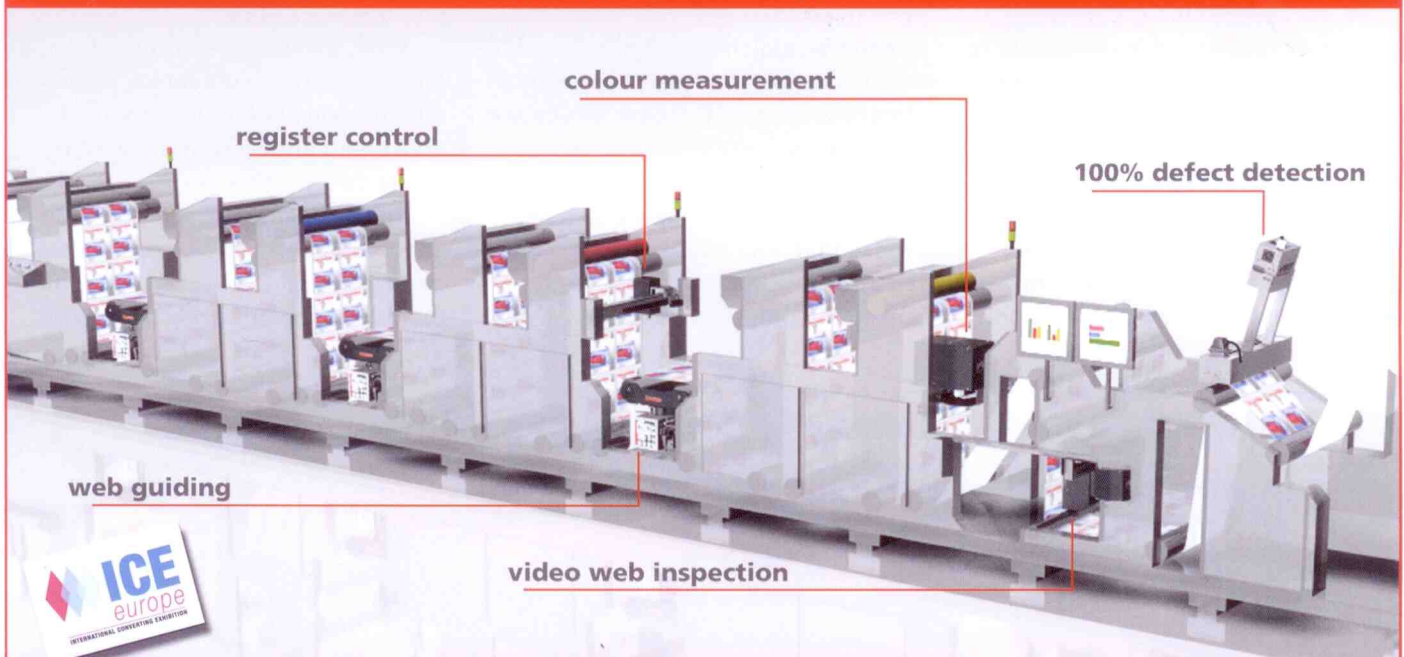


A void label with glue leftovers

information about passengers' whereabouts. Inside an RFID tag, there is a chip and an antenna. With a special writing/reading device, information can be stored and retrieved in the device without physical or visual contact by certain frequencies.

In order to embed the chip and the antenna in between two layers of paper, the newest laminating adhesives, Novamelt A 1010 or Novamelt A 2179, are put to use. The self-adhesive functions can again be added using Novamelt PS adhesives. ■

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BST International GmbH | Heidsieker Heide 53 | 33739 Bielefeld | Germany | Phone: +49 5206 999 0 | Fax: +49 5206 999 999
www.bst-international.com | info@bst-international.com | A member of the CLOXIS group