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FEATURES: Improving measurement data import | Passport to adhesion innovation | Replace, reduce and recycle | Expect innovation and much more | Total flexo pre-press solution | Static neutralising App

Kugler-Womako has developed a passport machine which utilises a polyurethane hot-melt adhesive instead of traditional glue and another which inserts RFID chips

Improved adhesion

A passport goes through a series of steps during production. In the first step, the books, collating the different parts of the passport two-by-two together. In the second step, the components from PassPort 1 are joined together with the chip inlays and the chip layers from PassPort 2 are joined together. The chip inlays inserted into the book. In the third step, the chip inlays on the PassPort Chip are joined together. In PassPort 3 the layers are joined together separated one-up, one-down. The book is then joined with a die-cutting machine. The passport is given a laser perforation. At the end, the passport or e-passports can be realised.

The machine was used in the first book and cover. On 1st of April for NPA, the glue adapted for polyurethane (PUR).

Kugler-Womako has modified the machine and replaced the applicator roll with a roll which applies the PUR adhesive. The adhesive is applied to be processed at 140°C. A glue quantity is controlled by a heat-detecting camera. The application of the adhesive is controlled by the surface to be glued. The PUR adhesive is applied in a controlled process and hardware. The process and hardware are linked to the PUR.

PassPort chip insertion

The chip is inserted into the passport number. The chip is already fitted into the passport. The chip is normally goes into the passport. The chip is inserted between the middle of the passport. The chip is protected. On the basis of the chips it was reduced the spoilage to a minimum. The machine developed a new way to insert the chip into the passport. The

Trusting cooperation

The machine and technicians at Kugler-Womako have worked closely together with NPA to realise their customer's wishes. The machine is appreciated by the machine mechanics and technicians. At the end, passport production is completed.

The machine has been successfully used for the manufacture of the new passports in Australia has been in use since September 2013.