get rid of clichés

Marking of PE film with Thermal inkjet betaJET

Conventional packaging and shrink wrap producers extend their portfolio and turn increasingly to suppliers of highly sophisticated films which are used by film converters.

Plastic film of polyethylene, abbreviated PE, is versatile applicable for packaging or covering material for protecting against damage, moisture or dust. PE film ist available as construction film, packaging material, even as food foil. The material is physiologically harmless and therefore perfectly suited.

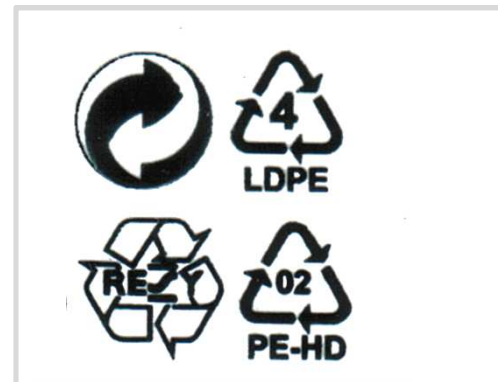**For some manufacturers of film and foil the printing on PE presents a real challenge.**

Highest degree of flexibility for printing on PE film

With state-of-the-art and process controlled mono and co-extruders, the industry produces in Germany alone many thousands of tonnes of PE standard and special foil each year.
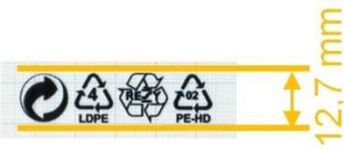
Nowadays Logos, including recycling, HPDE, LPDE symbols etc. are applied right at the blown film extruder. Due to the high speed process of up to 90 m/min the marking is classically placed on the film by using co-rotating fixed printing blocks (clichés) which apply ink on each revolution.

The disadvantages of this technology are obvious:
- manual change of print images require long change-over times
- high rejection rate caused by ink smearing
- prefabricated clichés offer little flexibility

Markings can also be done by fixed clichés - as long as you are willing to take the disadvantages.

KBA

KBA-Metronic GmbH

50,8 mm

12,7 mm

The thermal ink jet coding system betaJET strikes a new path in marking PE film flexible and cost-efficient. These results are confirmed in practical use in many applications:

- high speeds, up to 90 m/min with a print image heigh of approx. 12,7 mm (= 1/2 inch) per print head
- the ink drys quickly on the non-absorbent PE film
- the system is user programmable
- the system has the flexibility to print different-sized special logos up to 50,8 mm (= 2 inches)
- high print resolution at high speeds can be achieved
- it only takes a short time to change and edit print images
- withstanding production temperatures of over 50 °C (= 122°F)

„Despite the heat and lack of space, the compact and robust stainless steel housing proved to be the best choice. The ink Premium XP does a good job in total without drying up in the cartridge. "

users about the betaJET verso

betaJET controllers with 4 print heads each are already sucessfully installed in several customers production lines.
The lines can run in 1 - 4 web configurations. It has proven to be a huge advantage that the betaJET print heads are cascadable, as special size logos with more than 12.7 mm in height are required often. Merely by rearranging the cabling, print head configurations can be created which are capable of printing images up to 50.8 mm high.
betaJET thermal ink jets can easily be integrated and even retrofitted in existing production lines.

betaJET technology
The betaJET verso is based on the proven thermal ink jet technology, combined with an innovative software concept.

It is freely programmable and has a large number of inks for various applications. The convenient operation via the intuitive touchscreen
display and the precise
print image in high resolution make the betaJET verso a reliable and robust partner for industrial coding and marking applications.

The system is designed for simple as well as complex or very special applications.

Typical applications for the betaJET are, for example, the labeling of primary and secondary packaging, folding boxes, addressing for mailings, promotional codes and flyers.

Also the betaJET is the right choice for the pharmaceutical industry for printing barcodes, data matrix codes and PPN codes to protect drugs against counterfeiting.

Key features are:
- compact and robust stainless steel housing
- print resolution: up to 600 x 600 dpi
- optimized print quality even with high speeds
- freely configurable up to 4 print heads with print high up to 2'' (50.8 mm)
- large 8.4'' display with configuration wizard
- print preview
- integrated label editor
- ink saver comes standard

KBA-Metronic GmbH
Benzstrasse 11
DE - 97209 Veitshoechheim
Telefon: +49 (0)931 9085-0
Email: info@kba-metronic.com
Web: www.kba-metronic.com

Coding is our passion.

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KBA-Metronic GmbH