



green GLUING

PAPER WRAPPING USING ADHESIVE APPLICATION

Sustainable packaging without plastic film

PRECISE ADHESIVE APPLICATION FOR PAPER-BASED PACKAGING SOLUTIONS

Cold glue or hot melt application ensures reliable bonding of paper in paper wrapping processes. By eliminating stretch film, the carbon footprint can be reduced by up to 62 %.

Paper pallet wrapping with cold glue

In paper pallet wrapping, the pallet is wrapped with stretchable kraft paper. It protects the goods and stabilizes them for transport. The paper surface can be individually printed – for example with QR codes, logos, or shipping information.

Cold glue application – a key technology

Since paper is not self-adhesive like stretch film, cold glue swirl patterns are continuously applied to the lower section of the paper web. Before the final half wrap, an additional swirl application is applied to the upper section to securely fix the paper end. Bonding the paper layers allows the wrapping to be cut through with a single cut during depalletizing and removed as one continuous piece.

Fully recyclable

The use of cold glue supports the recyclability of paper wrapping: the water-soluble adhesive does not need to be separated from the recovered paper fibers. In addition, cold glue is temperature-resistant, ensuring that the paper wrapping remains securely bonded even at elevated transport or storage temperatures.

Advantages of paper pallet wrapping

- 62 % less CO₂ than plastic film
- Fully recyclable thanks to water-soluble cold glue
- Easy depalletizing in one piece
- High process reliability thanks to precise adhesive application
- Temperature resistant bonding for safe transport and storage
- Printable surface for QR codes, logistics, or advertising

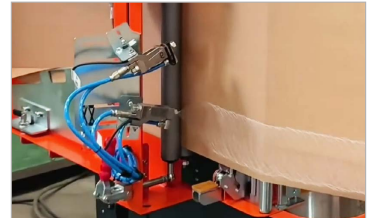
Paper-based banding with hot melt

Paper-based banding, also known as sleeve packaging, is a fully recyclable packaging solution in which products such as multipacks of bottles or other consumer goods are held together by a strong paper sleeve.

To manufacture the sleeve, paper with high tensile strength and stiffness is cut to size. A hot melt bead is applied to the overlap. The glued sleeve is then slipped over the multipack.

Advantage of paper-based banding

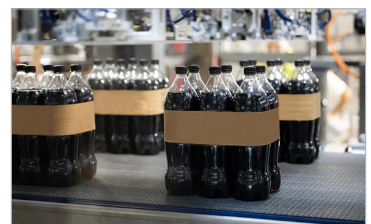
- Reduces the amount of plastic in secondary packaging
- Fully recyclable packaging
- Additional space for messaging directly on the product



Polaris spray heads in paper pallet wrapper



Precise cold-glue swirl application ensures process reliability



Paper banding: recyclable stabilization of multipacks



DT 10 pressure tank and Polaris spray head: the key components for cold glue swirl application



Paper-based banding with Alpha adhesive melter and SX Diamond or Volta jetting heads