



Sustainable bundling and premium labeling in the Food industry

Challenge

From production to sale

Packaging challenges in the food industry

The food industry is witnessing a growing need for eco-friendly packaging. Retailers prioritize sustainability strategies such as minimizing packaging materials, substituting plastic with paper, and conserving energy. However, various challenges accompany these efforts.

Fruit and vegetable packaging cause a lot of waste

The excessive packaging of vegetables and fruits, often involving excessive use of plastic, not only creates a negative impact on the environment but also renders them unappealing to consumers. This can lead to serious consequences such as legal action and damage to the reputation of retailers.



Illegible labels for fruit and vegetables

Crumpled labels on produce hinder barcode scanning. Moreover, these labels often end up in compost, leading to soil contamination as microplastics, as consumers face challenges in detaching them from the peel.

A lot of packaging waste at the POS

Wholesalers and manufacturers transport their goods to distribution centers where they are consolidated into logistical units for easier handling before being delivered to branches. However, the use of plastic bags, tubular packaging, and shrink films for bundling leads to significant waste generation and poses a risk of

injuries from sharp tools at the point of sale (POS).

Little flexibility in the product refinement of ready meals

Printing individual information such as meal names, composition, preparation instructions, and best-before dates on packaging is necessary. However, using cardboard sleeves for this purpose results in labor-intensive manual work, limited flexibility, and restricted scalability.

Unattractive packaging for multipacks at the POS

Special offers are commonly presented in the form of multipacks, which are often sealed in films, taped together, or pack-



aged in plastic bags. However, consumers tend to resist such packaging due to the excessive plastic waste it generates and the difficulty in opening it.



Many manual steps, numerous packaging materials and little flexibility

Food packaging plays a crucial role in safeguarding the food, aiding in transportation, and delivering vital product details to customers. However, meeting these objectives typically involves emp-



loying diverse packaging materials, utilizing a wide array of packaging machinery and tools, and engaging in numerous labor-intensive manual procedures.

For numerous applications

Advantages of banding in the food industry

Banding offers flexibility, reduces packaging waste, and minimizes energy consumption throughout the entire value chain. Bands securely hold various types of foods together, sealing shipping cartons, assist with product finishing, serve as information carriers, and optimize processes.

Banding fruit and vegetables

Bands play a vital role in bundling, branding, and labeling unpackaged fruits and vegetables, as well as sealing tray packaging, all without the need for adhesives. Consumers appreciate bands because they generate minimal waste, are effortlessly opened by hand, and can be easily recycled without any complications.

Product refinement due to Branding with Banding

Banded products effectively capture attention at the point of sale (POS). With widths of up to 100 mm, the bands offer ample space for printing on both sides, accommodating up to 12 colors. This allows for a wide range of information, from storytelling to barcodes. Variable information can be printed on the bands in real-time, providing timely and customizable details.



Customer-friendly multipacks at the POS

A band is frustration-free packaging. The continuously adjustable closing force provides the right mix of easy opening and security. Consumers benefit from the simplest imaginable product handling: the tedious cutting of films is no longer necessary, simply tearing them open is enough.



Paper bands are more flexible than cardboard sleeves

Bands are adaptable to the size of the product, accommodating variable information such as the meal name, composition, preparation instructions, or best-before date. This information is printed in real-time during the banding process, utilizing designated placeholders on the band.

Minimise packaging waste at the POS

Banding machines offer complete flexibi-

lity by reducing manual labor and can be seamlessly integrated into production lines. These machines are capable of processing both paper and film bands, providing versatility in packaging options.

Your advantages

- Minimize packaging waste at distribution centers, point of sale, and for consumers.
- Replace plastic packaging with environmentally-friendly paper.
- Reduced energy consumption.
- Automation of packaging processes, reducing manual work steps.
- Elimination of additional labels through just-in-time printing on bands.
- Secure hold provided by adjustable band tension.
- No adhesive used, ensuring no residue on products.
- Frustration-free, safe, and quick opening.
- No heat generation due to ultrasonic technology.
- Compatibility with freezing, baking, high-pressure pasteurization, microwave, and other food processes.

Machines

From manual to fully automatic

Banding machines for every application

Banding and labeling in one step



US-2000 AST-TTP

The US-2000 AST-TTP is a versatile banding machine equipped with a stainless steel arch and an intermittent thermal transfer printer. It enables the direct printing of variable information, including prices, weight, best-before dates, batch numbers, and 1D or 2D codes, onto the band during the banding process. Print mark readers ensure accurate placement of print images on pre-printed or unprinted bands. The US-2000 AST-TTP is available in versions that can process band widths of either 30 mm or 50 mm, providing flexibility to suit different packaging needs.

More information and technical data:



Ideal for dirty, wet products



US-2000 AST-MDM-P-V

The US-2000 AST-MDM-P-V is an ideal solution for banding bar-shaped vegetables. Its vertical construction enables the machine to handle dirty products without getting soiled itself. This design ensures cleanliness and efficiency during the banding process for fruits & vegetables.



Stainless machine for wide bands

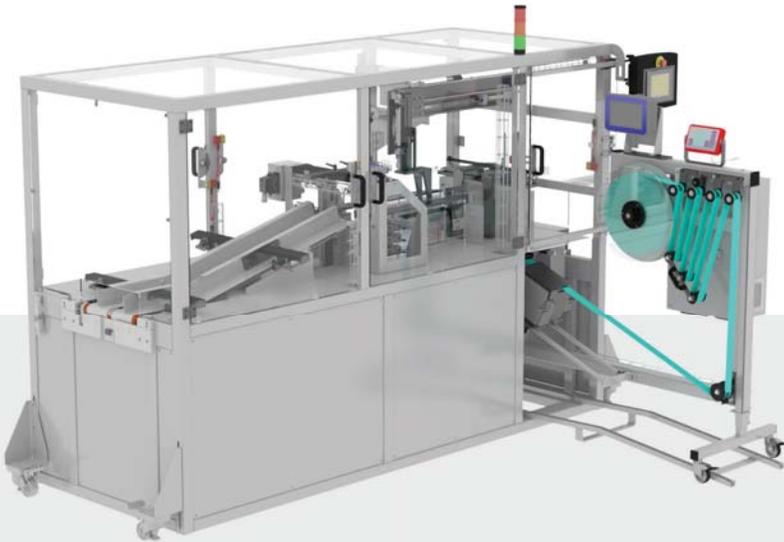


US-2100 AD-R

The US-2100 AD-R is a compact, highly reliable, and user-friendly banding machine. It efficiently processes band materials made of both paper and film, with a width option of either 75 mm or 100 mm. This machine is designed to provide seamless and effective banding operations.



Stainless banding system with integrated printer

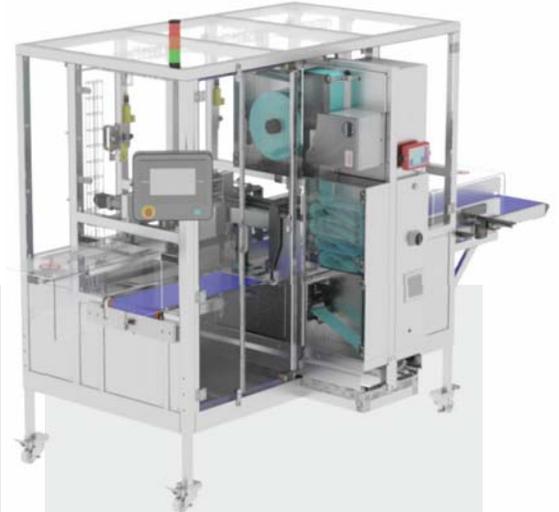


US-2000 SIB-TTP-R

The US-2000 SIB-TTP-R automatic banding system is designed to seamlessly integrate with the production line. It features an infeed conveyor belt that directly takes products from the production line and optionally applies a glue strip at the end of the rising belt. The intermediate stacker ensures smooth and uninterrupted production flow. The products are then fed to the banding machine using a servo axis, where they are banded and ejected by the following stack. Simultaneously, the next stacks are formed. Depending on the product and infeed, the system can process up to 96 products per minute and band up to 32 stacks. The integrated thermal transfer printer allows for the marking of stacks with variable information, such as 1D and 2D codes or price details. The optional hot-melt glue dispenser offers an advantage of achieving a secure grip between products, especially those with slippery surfaces, without the need for excessive belt tension. This dispenser is particularly useful for stacks comprising three products, as it applies glue strips to both the middle and bottom products, ensuring their stability and preventing slippage. This feature enhances the overall reliability and integrity of the banded stacks.



Alignment and bundling in one step



US-2100 IBL-CB-P-R

The US-2100 IBL-CB-P-R automatic banding system offers a convenient solution for sealing and labeling various products, such as food trays, in a single step. The system takes the products from a conveyor belt, allowing for automatic or manual placement. With an output of up to 28 cycles per minute, it ensures efficient and high-speed operation. Moreover, the banding system can be easily and quickly adjusted to accommodate different products, providing versatility and flexibility in production.



Material

Paper or film

The right banding material for every requirement

The requirements for banding material are as varied as the applications. They range from legal requirements to following group-wide sustainability strategies. From material-saving bundling of poly-styrene insulation boards in the construction industry to banding of high-value luxury goods. From sealing and labeling sushi boxes to securely holding together heavy metal or wooden products in the furniture industry.



Bands made of paper

Paper bands encompass a wide range of paper qualities and barrier coatings, offering versatility for numerous applications, products, and environmental conditions. They can be used in unexpected places where paper might not be initially considered. Our paper bands are available with FSC certification, ensuring responsible sourcing of materials. Depending on the specific design, they also meet high recyclability requirements, contributing to sustainable packaging solutions.

Bands made of film

Film bands offer exceptional tear resistance and can withstand load capacities of up to 30 kg. Despite their strength, they can still be easily torn open by hand during sealing. Depending on specific requirements, films with varying thickness, stretchability, and tear strength are utilized. Our range includes films as thin as 50 µm. All our films are made of high-quality, recyclable materials such as PP (polypropylene) or HDPE (high-density polyethylene), ensuring they are considered monomaterial and contributing to easier recycling processes.

TruePaper

TruePaper is an environmentally sustainable paper band designed for various applications. It can be sealed using both ultrasonic and heat seal technology. TruePaper is available in options made from either fresh fibers or more than 50% recycled fibers, offering flexibility in sustainability choices. The paper band can be recycled through the regular paper recycling process, making it an eco-friendly option. Additionally, it is safe for direct contact with food, ensuring its suitability for packaging in the food industry.



Information about TruePaper:



Branding with Banding

Our versatile paper and film bands, ranging from 15 mm to 100 mm in width, provide extensive printing options with up to twelve colors on both sides. They are highly effective as image, advertising, and information carriers at the point of sale (POS). With just-in-time printing during banding, we seamlessly combine predefined branding with variable information. Our BRC-certified print shop upholds strict hygiene standards, and we prioritize the use of low-migration, food-approved, and sensorially neutral inks. This ensures the safety and suitability of our bands for various food-related applications.

Our core competence

Ultrasonic sealing

Banding machines utilizing ultra-sonic technology stand out as the most energy-efficient packaging machines available today. When compared to shrink wrappers, their energy consumption can be as much as 98% lower

Banding reduces the ecological footprint

Ultrasonic sealing operates by delivering energy directly to the material being sealed, rather than transferring it in the form of heat energy.

ULTRASONIC
TECHNOLOGY



Your advantages

- Gentle handling of products
- No heat generation
- Immediate operational readiness
- Low power consumption
- No risk of injury
- No adhesives
- Continuously adjustable band tension
- Variable sealing strength

Banding and just-in-time labeling

Banding machines equipped with integrated printers eliminate the need for additional labels. They enable the printing of company logos, packaging information, best-before dates, 1D or 2D codes, sales prices, and more directly onto the paper and film bands during the banding process. The printing is done just-in-time, ensuring the most up-to-date information is applied. Regardless of the product volume or size, the print image always remains in the desired position, providing consistent and accurate labeling

Everything from one source

Our promise – your carefree package

We offer high-quality, innovative, and sustainable banding solutions for your sales packaging and packaging logistics needs. Our focus is on bundling and packaging your products in an ecologically and economically sensible manner. With our comprehensive care package, which includes consultation, machinery, materials, and service, we ensure that you always receive the optimal packaging solution. Our goal is to provide you with a hassle-free experience, offering expert advice and delivering the best possible packaging solutions for your business.

Machine

Our banding machines are renowned for their quality, reliability, and durability. They ensure high production reliability, minimize downtime, and offer long-lasting performance. With our machines, you make a sustainable investment that brings reliability, productivity, and long-term value to your business.

Material

Our banding material meets high-quality and safety standards, delivering reliable and secure packaging solutions. With our top-quality machines and carefully selected banding materials, we ensure optimal results and consistent, reliable operation. Our commitment to the right machine-material combination ensures efficient packaging processes and peace of mind in the reliability and performance of our solutions.

Service

We prioritize high availability of spare parts, enabling rapid troubleshooting by well-trained technicians and facilitating planned maintenance operations. This focus ensures a high level of production

reliability, minimizing downtime and ensuring smooth operations.

Advice

Our first step is to provide you with sound advice that is personalized, imaginative, and precisely tailored to your specific needs. We understand the importance of laying a strong foundation for a successful project. By working together, we ensure that our advice aligns with your goals and requirements, setting the stage for a fruitful collaboration. Our dedicated team will guide you through the process, leveraging their expertise and creativity to provide you with tailored recommendations that meet your unique project objectives.





Visit us

Genuine customer proximity

Our products meet high quality standards. The reliability and safety of our banding solutions are appreciated by customers all over the world – from vegetable producers to multinational companies. Nevertheless, when it comes to consulting, service or maintenance activities, proximity to the customer is a decisive success factor. Therefore, we have subsidiaries in Germany, France, Spain, Poland, Canada, the Netherlands and the United Kingdom, as well as over 50 representatives in all parts of the world. They are familiar with local characteristics and are there for our customers around the clock.



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