



Sustainable and flexible
banding solutions for
Fulfillment
service providers



Challenge

From production to delivery

Numerous challenges for fulfillment service providers

The time-to-market for fast-moving consumer goods, which encompass everyday products like food, hygiene items, cosmetics, or pet supplies, is often just a matter of months. It's crucial for every step of the process, from production to delivery, to run seamlessly. This includes the crucial tasks of packaging, finishing, and finalizing the products and their packages. However, numerous challenges emerge throughout this process.

Sustainable Packaging Solutions

Throughout the entire supply chain, consumers, legislators, and retailers now demand environmentally friendly packaging. Traditional shrink film packages used for bundling products are no longer favored. They generate excessive packaging waste at the point of sale (POS), can influence consumers' purchasing decisions negatively, and pose challenges for recycling. Shrink film packaging is also energy-intensive and costly.

Efficient Multi-Item Orders and Right-Sized Packaging

Automatic packaging systems are prevalent in e-commerce. These systems determine the optimal package sizes for orders, pack the items, weigh the packages, and apply labels. The need for filling materials is eliminated. Products from orders containing multiple items must be bundled appropriately to ensure consistent sizing and arrive as a cohesive unit in the shipping carton.

Unboxing as a Crucial Touchpoint

Unboxing has emerged as a vital touchpoint for consumers. Manufacturers and retailers recognize its significance as a marketing tool and strive to provide

customers with an unforgettable unboxing experience. Packaging plays a crucial role in enhancing products, setting them apart from competitors, conveying brand values, and evoking emotions.



High flexibility, speed and quality

Packaging processes need to be tailored to specific products. Depending on the product and quantity, packaging may need to be done manually, semi-automatically, or fully automatically, using different packaging materials. Safety and hygiene requirements must also be met. In addition to flexibility and speed, maintaining high availability and consistent, high-quality packaging is crucial.



Product refinement

Packaged products must not only reach the right place at the right time but also capture positive attention from consumers at the point of sale. The packaging should be visually appealing, easy to open without frustration, minimize unnecessary waste, and be readily recyclable.



Packaging in returns management

In returns management, it is essential to maximize the reuse of returned packaging whenever possible. However, damaged packaging poses a logistical challenge as it needs to be correctly recycled. The returns process must be streamlined and efficient to minimize costs while maintaining high levels of customer satisfaction.

Along the entire added value chain

Sustainable and flexible banding solutions with ultrasonic technology

Banding, utilizing ultrasonic technology, offers a sustainable and flexible solution that minimizes packaging and reduces energy consumption throughout the entire value chain. Bands securely hold products together, seal shipping cartons, contribute to product finishing, serve as information carriers, and optimize processes.

Minimize packaging to match packing needs

Banding minimises packaging, reduces energy consumption by 98% compared to shrink-wrapping, replaces plastic with paper, automates packaging processes and eliminates the need for additional labeling.

Bundling for right size packaging

Bands efficiently bundle articles into logistical units and securely hold them together on the conveyor belt until they reach the packaging machine. In shipping cartons, bands provide a secure hold without the need for additional filling material. Just-in-time printed codes on the bands support process digitization.

Secure sealing of shipping cartons

Tear-resistant bands effectively seal heavy packages, such as those containing pet food, furniture, car accessories,



or household goods. These wide bands do not damage the shipping cartons, making handling easier throughout the entire supply chain and reducing the likelihood of returns.

Optimised returns management and storage

Bands offer protection against tampering and simplify returns handling. Shoe boxes with intact bands can be directly returned to the warehouse. Packages sealed with bands facilitate easier handling and enable space-saving storage.



Flexible banding enhancing productivity

Banding machines provide full flexibility, reducing manual work steps, and can be seamlessly integrated into production lines. The same machine can process both paper and film bands.

Product refinement through Branding with Banding

Banded products attract attention at the point of sale (POS). The bands, which can be printed on both sides with up to 12 colors, provide ample space for information, ranging from storytelling to barcodes. Variable information can be printed on the bands just-in-time.

Perfect unboxing experience

Bands offer frustration-free packaging. The continuously adjustable closing force

ensures a balance between easy opening and security. Consumers benefit from a simple product handling experience where cutting films is no longer necessary, as tearing them open is enough.



Your advantages

- Minimise packaging waste in the distribution centre, at the POS and for consumers
- Replace plastic packaging with paper
- Reduce energy consumption
- Reduce manual work steps and automate packaging processes
- No additional labels thanks to just-in-time printing on the bands
- Secure hold due to continuously adjustable band tension
- No adhesive, therefore no residues on products
- Frustration-free, safe and quick opening
- No heat generation thanks to ultrasonic technology

Machines

From manual to fully automatic

Banding machines for every application

Powerful, proven and universally applicable



US-2000 AD

The US-2000 AD banding machine sets a high standard for durability, requiring minimal maintenance and offering energy efficiency. Its modular design, along with the ability to adjust band tension continuously, provides versatility to accommodate products of various sizes and properties. Whether using paper or film, this machine can effectively band a wide range of items. The US-2000 AD is conveniently available in multiple band-width options, including 20, 30, 50, or 60 mm, catering to diverse banding needs.

More information and technical data:



Just-in-time labeling with intermittent printing



US-2000 TTP

Combining banding and labeling, the US-2000 TTP utilizes a thermal transfer printer to streamline the process, eliminating the requirement for extra labeling. This innovative machine enables direct printing of information onto paper or film tape while performing the banding operation.



Cost-effective labeling with continuous printing



US-2000 AD-P

The US-2000 AD-P is a versatile banding machine that simplifies the process of applying barcodes, expiration dates, or batch numbers. This cost-effective and user-friendly machine features a built-in continuous feed printer, allowing for seamless integration of banding and printing in a single step.



Automatic banding of shipping boxes



US-2000 TR-AST-BM-J

The US-2000 TR-AST-BM-J is a transit banding system equipped with a jumbo dispenser, automatic length measurement, and product storage capabilities. This advanced machine intelligently determines the required number of bandings based on the dimensions of the incoming shipping box. It then positions the package accordingly before initiating the banding process. With the ability to handle paper or film banding at a width of 30 mm, the machine efficiently handles packages of up to 1050 x 600 x 600 mm in size.



Alignment and bundling in one step



US-2000 IBL-SM

The US-2000 IBL-SM is designed to seamlessly integrate with conveyor belts, allowing it to directly receive product stacks. This efficient banding machine offers the flexibility to apply one, two, three, or four bands to the stacks as needed. To handle delicate items, a pusher is available for separate ejection. The product memory feature supports up to eight different stack configurations, minimizing downtime during product changes and maximizing operational efficiency.



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 polystyrene 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.



TruePaper

TruePaper is an eco-friendly paper band designed for sustainability, capable of being sealed using both ultrasonic and heat seal technologies. It can be produced from either fresh fibers or a composition of over 50% recycled fibers. TruePaper is easily recyclable within the standard paper recycling system and safe for direct food contact.

Bands made of paper

Paper bands encompass a wide range of paper qualities and barrier coatings, each offering unique properties. This versatility makes paper bands suitable for a multitude of applications, products, and environmental conditions, even in unexpected settings. Our paper bands are available with FSC certification, ensuring responsible sourcing, and depending on the specific design, they also meet rigorous recyclability standards.



can still be easily torn open by hand using the machines adjustable sealing function. Depending on specific needs, films of varying thickness, stretchability, and tear strength are employed. Our range includes the thinnest film with a mere 50 µm thickness. All of our films are crafted from premium, recyclable PP or HDPE materials, making them classified as monomaterials.

Branding with Banding

The paper and film bands, ranging from 15 to 100 mm in width, offer the versatility of being printed on both sides with up to twelve colors. They serve as ideal carriers of images, advertisements, and information at the point of sale (POS). The seamless integration of predefined branding and variable information is made possible through just-in-time printing during banding. Our print shop is BRC-certified, ensuring compliance with rigorous hygiene standards. Additionally, we exclusively employ low-migration, food-approved, and sensorially neutral inks for optimal safety and quality.

Information about TruePaper:



Bands made of film

Film bands exhibit outstanding tear resistance, capable of bearing loads up to 30 kg. Despite their strength, these bands

Our core competence

Ultrasonic sealing

Banding machines equipped with ultra-sonic technology stand out as the most energy-efficient packaging machines available. In fact, their energy consumption is up to 98% lower compared to shrink wrappers

Banding reduces the ecological footprint

Ultrasonic sealing operates by directly delivering energy to the material being sealed, eliminating the need for heat energy transfer.



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 with integrated printers combine banding and just-in-time labeling, eliminating the need for additional labels. This integrated system allows for direct printing of various elements such as company logos, packaging details, expiration dates, barcodes, pricing, and more onto the paper and film bands during the banding process. Regardless of the product volume, the printed image remains accurately positioned, ensuring reliable and efficient labeling.

Everything from one source

Our promise – your carefree package

Experience superior, forward-thinking, and environmentally-friendly banding solutions for your sales packaging and packaging logistics needs. We enable you to bundle and package your products in an ecologically and economically efficient manner. Our comprehensive package includes expert guidance, cutting-edge machinery, high-quality materials, and reliable services, ensuring that you always receive the optimal packaging solution.

Advice

The initial phase involves receiving expert guidance, delivered with a personal touch and customized to your specific needs. Through collaborative discussions,

we establish the groundwork for a successful project, employing creative and tailored solutions.

Machine

Our banding machines exhibit exceptional quality, reliability, and longevity. This translates to a heightened level of production dependability and the assurance of making a sustainable investment for your business.



safety. By selecting the optimal combination of machinery and material, we ensure superior results and dependable operation.

Service

Our commitment to ensuring high production reliability includes a robust spare parts inventory, prompt troubleshooting from skilled technicians, and well-planned maintenance operations. With these measures in place, you can expect excellent availability of spare parts, swift resolution of issues by trained professionals, and predictable maintenance procedures, all contributing to a reliable production process.

Material

Our banding material adheres to the most stringent standards of quality and





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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