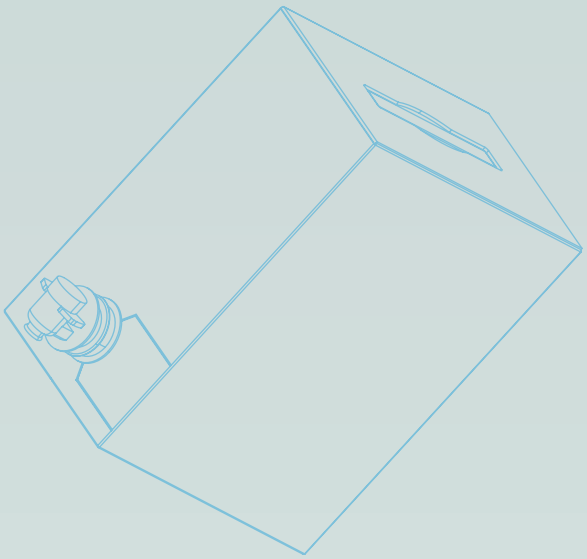
Acmi
Labelling Solutions

Omnia Technologies
Enabling Evolution

BAGINBOX

From product to shelf

Performance and sustainability from production to shelf: a multi-layer bag housed inside a specially designed cardboard box



BAGINBOX

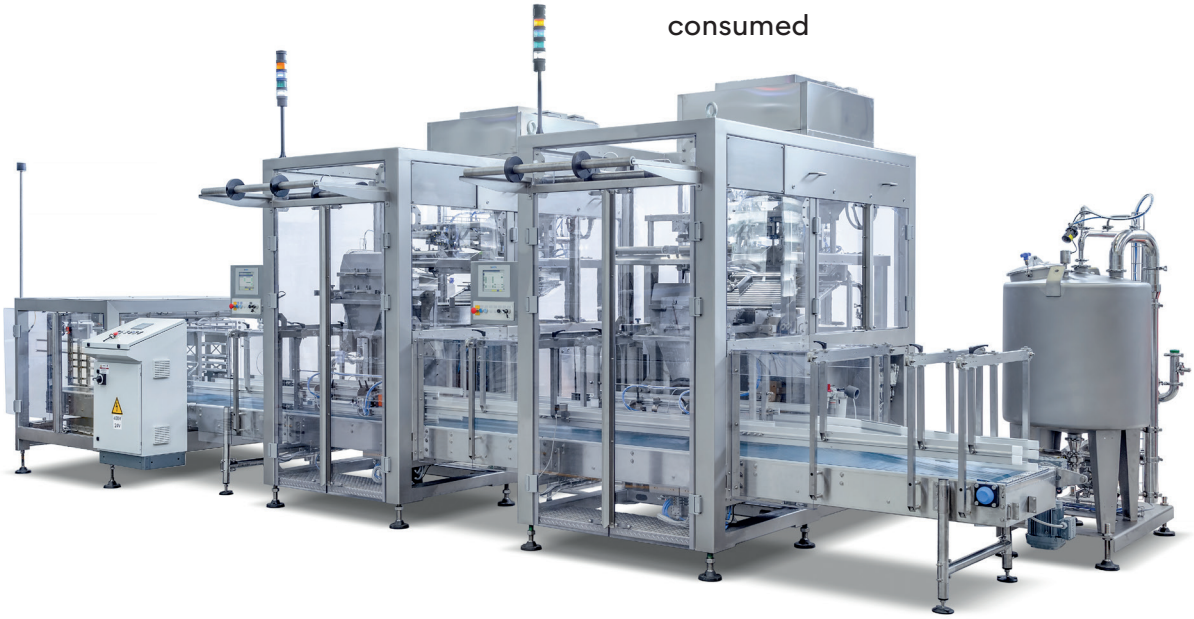
From product to shelf

PERFORMANCE AND SUSTAINABILITY FROM PRODUCTION TO SHELF: A MULTI-LAYER BAG HOUSED INSIDE A SPECIALLY DESIGNED CARDBOARD BOX

PRESERVED PRODUCT QUALITY, LOGISTICAL OPTIMIZATION

ACMI BIB (Bag in Box) is a multi-product, multi-format line that provides the very highest sustainability performance along the entire value chain, safeguarding product quality and optimizing logistics.

- **100% recyclable box >** environmentally friendly
- **Lower CO_2 emissions >** less packaging, higher product quantity
- **No air in container after opening >** best quality
- **Low residual volume >** virtually all the product can be dispensed and consumed



Max. speed

950 bph

Sizes from

1.5 to 20 lt

MAIN FEATURES

- **Maximum performance** with the widest range of products/cartons/spouts > Water, Liquid Egg, Wine, Edible Oil, Concentrated Syrups, Milk, Soy Sauce, Detergents & Liquid Soap
- **Suitable for use with all types of commercially available spout**
- **Suitable for different carton types** (standard RSC, overlapped flap cartons, etc.)

An efficient and effective process

A RANGE OF ADVANCED SOLUTIONS TO GO FROM PACKAGING MATERIAL TO FINISHED, PALLETIZED PRODUCT IN A SINGLE PROCESS, WITH LIMITED FOOTPRINT

LOADING

Fully integrated process: bags are fed automatically to the machine, with manual or automatic bag separation.

FILLING

After bag loading, the bag neck is closed and the bag itself uncapped. Filling valves are then positioned for insertion and the filling process is completed.

CLOSING

After filling, the neck is closed by low pressure and cleaned with nitrogen. Then the cap is positioned automatically and closed onto the bag.

CARTONING

At the end of the process, the filled and closed bag is inserted in the carton with the cap facing upwards/downwards. The insertion process can be set manually or automatically.

Choose your configuration

Fully automated, specifically sized solutions designed to meet **every possible production need:** BIB is available in both an innovative monobloc and stand-alone configuration. Customers can also opt for a multi-filling layout to manage multiple filling machines on a single platform.

STAND ALONE

A wide range of stand-alone fillers (fully and semi-automatic), with or without an in-line bag process.

- **Linear S** - semi-automatic with manual bag separation
- **Linear F** - semi-automatic with automatic bag separation
- **Linear** - fully automatic with in-line bag process
- **Lateral** - fully automatic with 90° angle bag process

MONOBLOC

A latest-generation filling monobloc designed to handle one-step bag opening, ultra-clean filling, box forming and closing: a fully automated solution designed to handle high output within a limited footprint.
Monoblocs are available with
in-line or 90° angle bag processes and are equipped with:

- **Case erector** with hot melt closing system
- **Bag filler** (linear or lateral) with the option of multiple filling machines
- **Case sealer** with hot melt closing system
- Automatic **bag feeding and cutting**

MULTIFILLING

Lines can be customized with two (or three) fillers, letting producers achieve **'ultimate' line composition flexibility** in terms of speed, product, packaging, case formers/packers and secondary packaging solutions.

- Lines can be customized **with 2 or 3 fillers**
- Maximum **filling accuracy** and **efficiency**
- Suitable for different secondary packaging solutions (**American type carton**, wrap-around carton)

Total integration, maximum flexibility, preserved quality

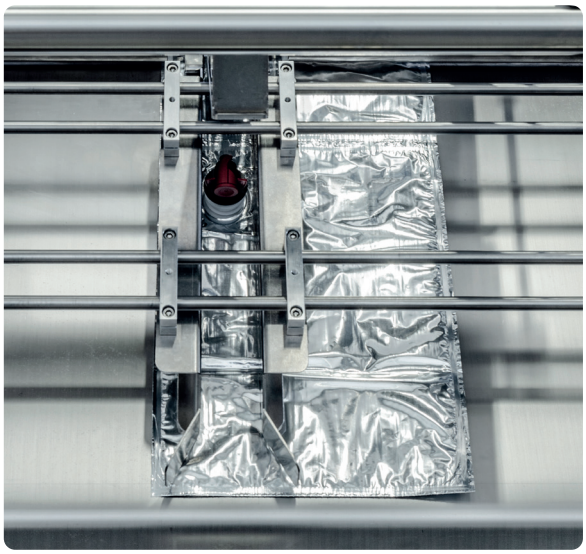
The ACMI BIB approach allows **total integration of bag feeding / forming / filling lines and bag insertion into cartons**; producers can use any type of bag on the market and different secondary packaging systems.
Products packaged with ACMI BIB machines have an **extended shelf life** thanks to **hygienic filling** and systems that, during the filling phase, **limit contact between product and air** (therefore limiting oxidation of the product).
The product remains intact for a long time, **even after opening**, allowing "near-total" consumption.

BENEFITS

- **Outstanding filling accuracy and hygiene**
- **Preserved product quality and extended shelflife** (residual air extraction)
- **Ease of use, low maintenance** (components are lifetime-lubricated)
- Total **flexibility** (case erector and case sealer
- Can handle RSC boxes with standard and overlapped flaps from 1.5 to 20 liters)
- Integrated and fully automatic cleaning process (**CIP circuit**)
- Remote control

High configurability to meet the needs of your specific product/ process

- Outstanding solution configurability and numerous optionals allow ACMI BIB to **be adapted to the needs of the specific process in use** and the specific characteristics of the **product** to be packaged.
- High filling accuracy makes ACMI BIB ideal for filling **premium products**.
- All solutions are designed to **streamline and reduce maintenance**, increasing **flexibility during operation and changeovers**.



OPTIONALS

- Post-filling nitrogen injection into bag neck (to best preserve the quality of **oxygensensitive products** such as wine)
- Dissolved oxygen measuring system (**DOmeter**)
- Steam kit to perform **filling cycle sterilization**
- Disinfectant spray kit for neck and cap
- Vertical **laminar air flow** filter to ensure low product and process contamination
- Users can choose whether to install a **mass flowmeter** or a **magnetic** one
- Electrical cabinet air conditioning system

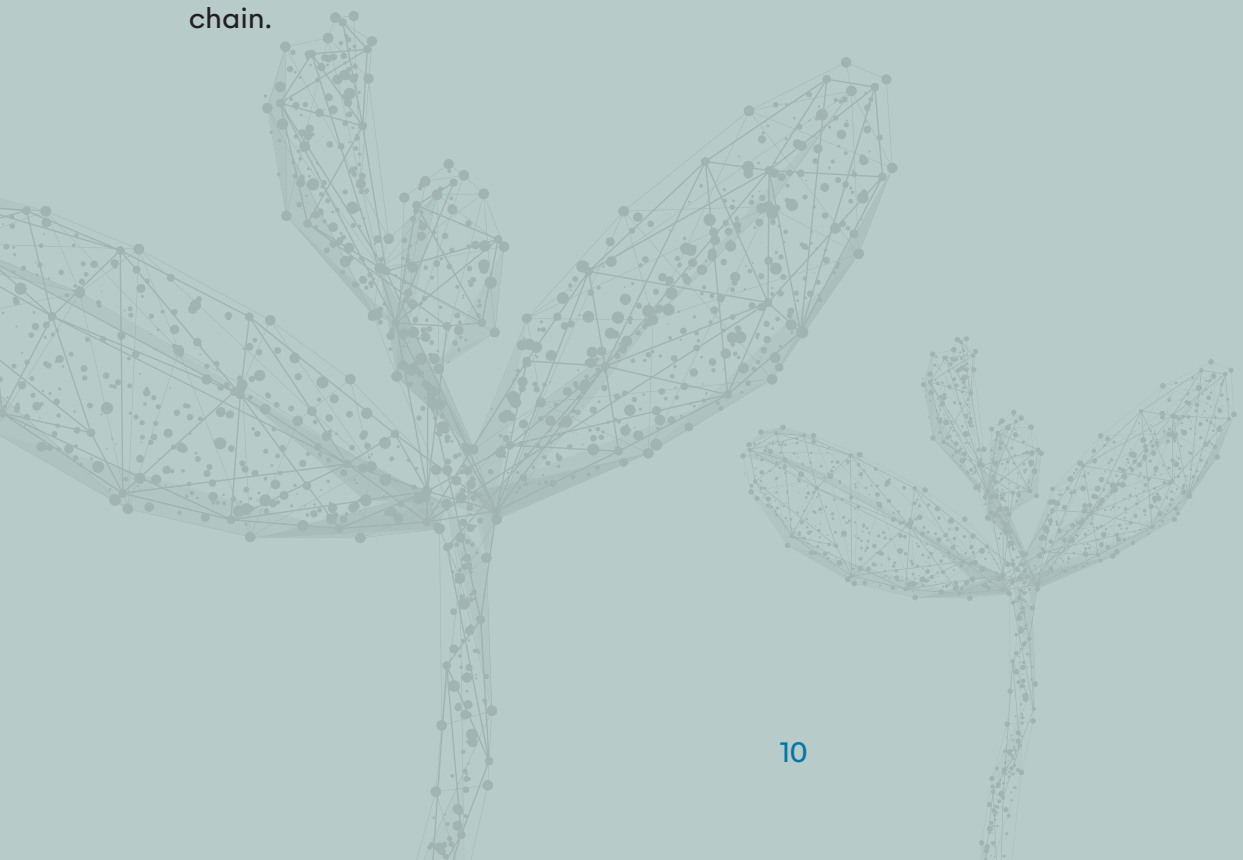
Sustainability along entire production chain and for entire product life

Use of BIB in the Packaging-Beverage sector **maximizes the quantity of product / content by minimizing the necessary packaging**.

The result is lower logistics and transport costs, and fewer raw materials to use and dispose of. In other words, compared to alternative solutions BIB technology is **intrinsically environment-friendly**.

ACMI has been developing complete Bag-In-Box systems for several years. Its tried and tested solutions are popular worldwide. Customers also appreciate the measures taken to make such systems advantageous in terms of sustainability and efficiency, along the entire production, supply and distribution chain.

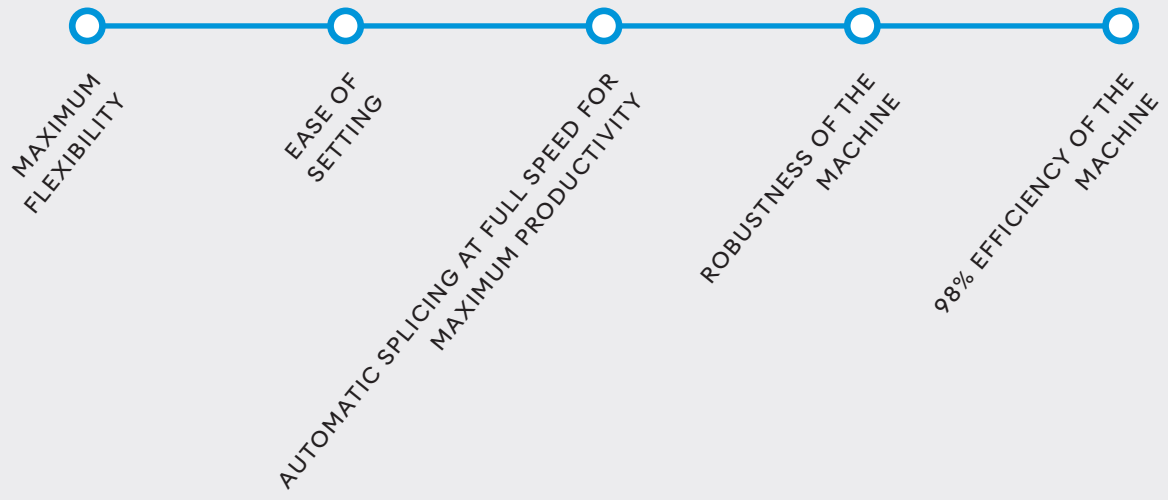
- Boxes are made of **100% recyclable paper**
- **Low consumption and emissions** (BIBs deliver higher product quantities with less packaging), **logistics optimization** (BIB packaging maximizes warehouse space)
- **Extended shelf life** (no air in the container, quality preserved for several weeks after opening)
- Zero waste thanks to **low residual volume** (preventing the air from entering the container means that almost all the product can be dispensed and consumed)



Customer service

ACMI's continuous innovation has introduced new developments that make orientation even more precise, working on any target such as embossed logos, pre-decorated surfaces and mold seams.

Thanks to new dedicated image acquisition units, the inspection system can identify the tiniest defects, identify/capture QR and bar codes, perform OCR and gather statistics.



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