



Intermediate Bulk Containers – a perfect fit for great logistics.

Countless Applications, One IBC Portfolio



REDEFINING ~~SUSTAINABILITY~~



FACILITIES
180+



TEAM MEMBERS
10,500+



GEOGRAPHIC FOOTPRINT
5 CONTINENTS
20+ COUNTRIES



About Mauser Packaging Solutions

A global leader in packaging solutions and services, Mauser Packaging Solutions (MPS) manufactures metal, plastic, fiber, and hybrid packaging of all sizes for use in a variety of industries worldwide.

Powering Your Sustainability Strategy

Our unparalleled, innovative solutions cover the full packaging life cycle, providing customized, environmentally friendly options that help businesses around the world reduce their environmental footprint.

Global reach for global impact

Our global network of design, manufacturing, reconditioning, and recycling facilities deliver high-quality packaging solutions around the world, providing you with an accessible, responsive, and consistent supply chain.





An IBC For Any Challenge

Mauser Packaging Solutions' IBCs are trusted by some of the largest manufacturers in the chemical, paints and coatings, food, beverage, and adhesives industries to help protect products, and people, in a variety of environments.






From new to reconditioned to all-plastic options, our experts will help you find the right solution for your specific products.

Market tested to deliver results, our IBCs are durable, space efficient, reusable and available around the world, ensuring you have access to a consistent, secure supply chain.

Each container is comprised of a galvanized steel cage, blow-molded HDPE bottle, pallet, discharge valve, label plates, screw caps, optional corner protectors, and degassing solutions.



COMPONENTS OF A MAUSER IBC

 FILLING	DN 150 / 6" or DN 225 / 9"
 DEGASSING	D15 / D17 / D38 degassing membrane integrated in lid
 LABEL PLATES	Multiple sizes ranging from small to extra large
 PRIMARY PACKAGING	HDPE or PCR bottle
 DISCHARGING	DN 50 / 2" DN 80 / 3" discharge valves (butterfly / cylindrical / ball)
 HANDLING	Wooden / Composite / Plastic pallet

IBC Classifications

Mauser Packaging Solutions' IBCs are available as UN or non-UN approved containers in 1,000L / 275G and 330G sizes (North America only).

Standard Non-UN

- ▶ Safe and efficient for non-regulated products, i.e. non-hazardous liquid filling goods.



Standard UN Y1.9

- ▶ For filling goods with maximum specific gravity rating of 1.9 kg/l



Fit for purpose UN Y1.6

- ▶ For filling goods with maximum specific gravity rating of 1.6 kg/l
- ▶ Optimal weight/performance ratio
- ▶ Resource-efficient design





Pallet Options

Mauser Packaging Solutions has several different types of pallets available to suit your specific application.

Composite Pallets (CP)

General features:

- ▶ Made from robust steel and plastic composite
- ▶ Modular design
- ▶ Impact resistant
- ▶ Better handling for long-term use
- ▶ Anti-corrosion plastic drip pan
- ▶ EX-compliant by integrated grounding for electrostatic load

Composite pallet frame:

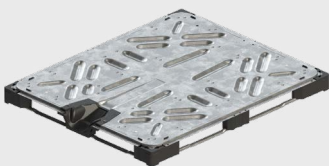
- ▶ Sturdier for better high-rack performance
- ▶ Less pan sagging

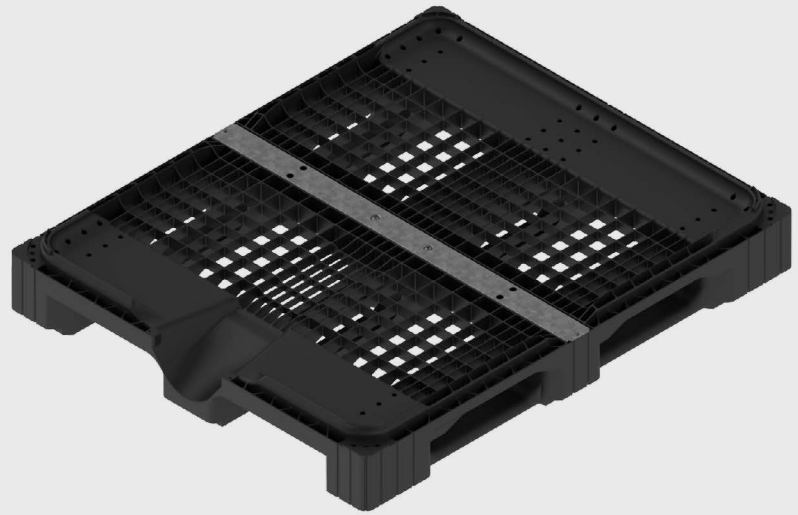
Composite pallet skid:

- ▶ Revolutionary tube frame structure replacing central traversal support
- ▶ Easy handling
- ▶ Not available in North America

Composite pallet ISO container:

- ▶ When double stacked, fits perfectly into a container
- ▶ Maximizes container loads
- ▶ Not available in North America





Plastic pallet (PP)

General features:

- ▶ Hygienic, not prone to contamination
- ▶ One-piece injection-molded with encapsulated steel reinforcement
- ▶ Made of largely recycled plastic
- ▶ Ideal for food, beverage and pharmaceuticals industries

Wooden pallets (WP)

Not available in North America

General features:

- ▶ Robust design for easy handling and high rigidity
- ▶ Optional heat treatment

Standard wooden pallet:

- ▶ Cost-efficient, built to Mauser Packaging Solution's highest standards



Wooden high-rack pallet:

- ▶ Ideal for high-rack storage



Wooden ISO container pallet:

- ▶ Maximized container loading: 20 vs. 18 IBCs in a 20" container or 56 vs. 54 in a 40" container





IBC Bottles

Blow-molded from high-density UV-stabilized PE, these bottles offer excellent chemical compatibility and mechanical strength, making them ideal for a wide range of filling applications.

COLOR

- ▶ Natural (translucent)
- ▶ White (Light Protect/ UV blocker)
- ▶ Champagne (PCR)
- ▶ Black (not available in North America)

TECHNOLOGY

- ▶ Monolayer
- ▶ 2-layer
- ▶ 3-layer
- ▶ PCR-layer
- ▶ Permeation barrier (inliner)

IBC Cages

- ▶ Produced in-house at a Mauser Packaging Solutions Tube Center
- ▶ Helps facilitate the safe stacking of IBCs for space efficiency
- ▶ Withstands dynamic and static loads during transport and storage
- ▶ Safeguards inner plastic bottle from potential damage

Features of the patented cage design:

- ▶ Galvanized tubular steel
- ▶ 6 horizontal bars, 20 vertical bars
- ▶ Vibration-optimized
- ▶ Engineered for stacking
- ▶ Galvanized against corrosion
- ▶ 1,035 mm high and 1,198 mm long

Optimization of all components, as well as our use of vertical and horizontal tubes increase the safety and reliability of your IBCs.



IBC Discharge Valves

IBC valves are a critical part of the package. Not only do they allow for the controlled and efficient flow of liquid from the IBC, they are also critical in preventing leaks and spills. Mauser Packaging Solutions' IBC discharge valves are engineered for durability and leak proof performance. Made from a rigid, one-piece polyethylene body, our valves offer superior resistance to corrosion while ensuring long-lasting reliability. With in-house production of both butterfly and cylindrical valves, we maintain full control over production and quality – helping to ensure functionality and liquid-tightness.

Butterfly Valve DN 50 (2") & DN 80 (3")

Robust, tried-and-tested, easy to use, with moveable components made of fiberglass filled plastic for additional strength.



Butterfly Valves

- ▶ Available in 2" and 3"
- ▶ Highly universal due to the outstanding chemical compatibility of the polypropylene seal used for the valve flap
- ▶ Available in metric and NPS threads
- ▶ Available with an integrated 2" camlock front end
- ▶ Gasket type: PE

Cylindrical Valve DN 50 (2")

Cylindrical and ball valves have an internal cylinder. The handle can be freely rotated to any position between two extremes: open (unrestricted flow) and closed.



Cylindrical Valves

- ▶ Available in 2"
- ▶ Permits unrestricted flow in the open position
- ▶ Flow rate regulation opportunity
- ▶ Available in metric and NPS threads
- ▶ Available with an integrated 2" camlock front end
- ▶ Gasket types: EPDM (red) or FKM (gray)

Ball Valve DN 50 (2")

A particularly strong, high-performance valve ideal for long-term multi-use applications.

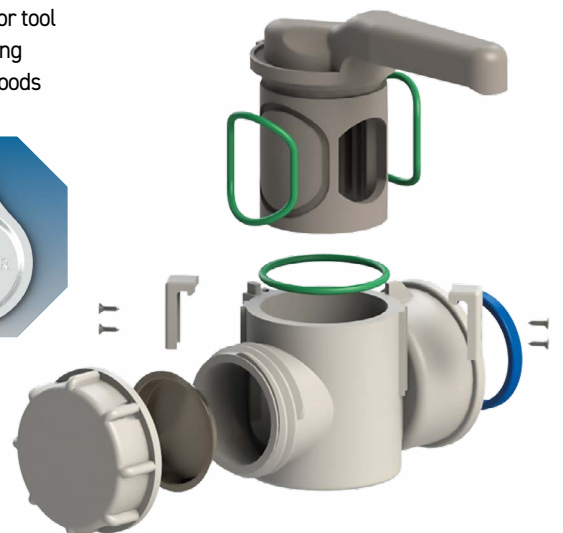


Ball Valves

- ▶ Available in 2"
- ▶ Permits unrestricted flow in the open position
- ▶ Flow rate regulation opportunity
- ▶ Providing twice the sealing power in the closed position
- ▶ Available in Camlock/NPS threads
- ▶ Gasket type: PTFE

Benefits of the easy-peel aluminum sealing foil on Mauser IBC valves:

- ▶ Fully recyclable
- ▶ Tamper-evident
- ▶ Leaves no residue, no risk of contaminating filling goods.
- ▶ Easily removable without a knife or tool
- ▶ Ensures quick and easy discharging
- ▶ Suitable for food industry filling goods



Screw Caps & (De-)Gassing

Mauser Packaging Solutions' screw caps and pressure relief systems meet the storage, transportation, and discharge requirements associated with a wide range of filling goods. Our experts can help guide you to the best solution for your filling goods.

Screw caps for filling openings

Color-coded protective caps keep out dust and pollution while identifying different types of packaging (e.g. green means a food-compatible IBC).

- ▶ Available in 150 mm / 6 inch or 225 mm / 9 inch
- ▶ Optional integrated venting and central bungs



Venting systems

Choose from a variety of venting options depending on your application.

D15 (SG1) / D17

- ▶ Standard (de-)gassing

D38 high-performance (de-)gassing

- ▶ Prevents IBC deformation
- ▶ Protects against leakage/contamination of filling goods
- ▶ Enables quick re-aeration
- ▶ Mandatory for some filling goods

The MAUSER OptiVent®

- ▶ One-shot emptying (discharging without unscrewing the cap)
- ▶ One-way airflow system
- ▶ High airflow and an integrated filter allow continuous emptying without external contamination

The MAUSER OptiVent® PLUS

- ▶ One-shot emptying (discharging without unscrewing the cap)
- ▶ Two-way airflow system
- ▶ High airflow and an integrated filter enable continuous emptying without external contamination





Label Plates

Communicating product information is key to logistics and operations, especially when transporting hazardous goods. Our steel label plates are available in a variety of sizes to communicate as much, or as little, information as you need. They can also be fixed to all four sides of the IBC.

SMALL: 235 x 500 mm



STANDARD: 400 x 500 mm



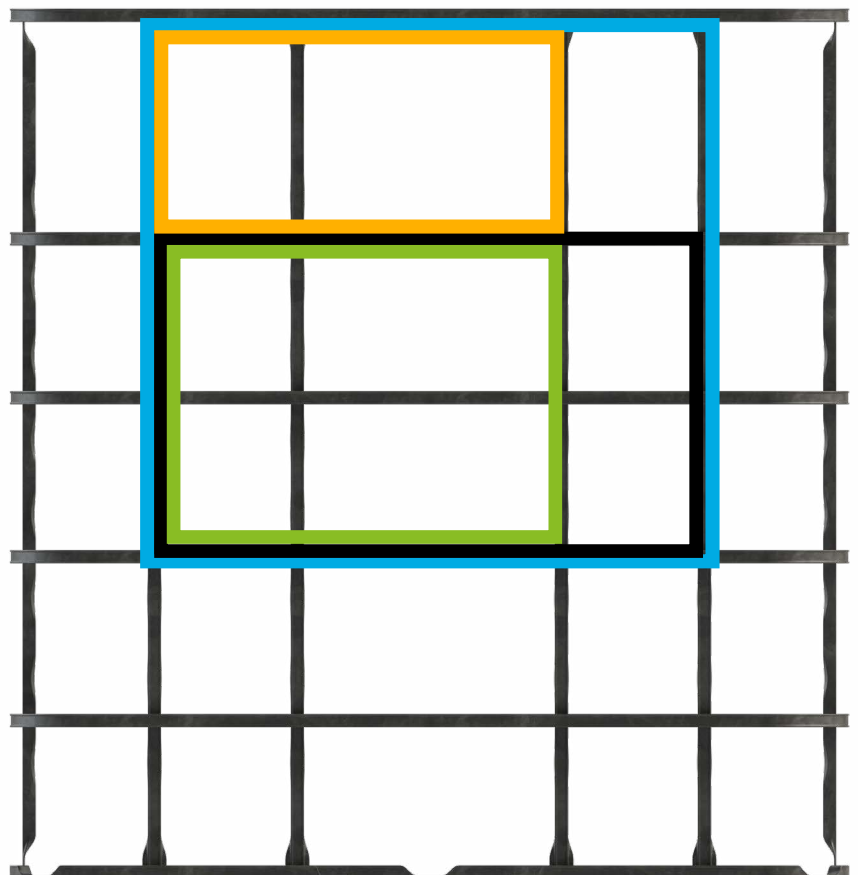
LARGE: 400 x 670 mm



XXL: 590 x 670 mm



- SMALL (1 x 2)***
- STANDARD (2 x 2)**
- LARGE (3 x 2)**
- XXL (3 x 3)**
- LATERAL (400 x 610 mm)****



* Not available in North America
 ** Only available in North America

Countless Applications. One IBC Portfolio



Light Protect (LP) IBC

IBC solution ideal for light-sensitive products.

- ▶ Protects filling goods against UV and visible light
- ▶ White pigment reflects sunlight, limiting temperatures inside the IBC and helping prevent chemical reactions
- ▶ Compatible with all pallet types



EX IBC

High performance multilayer IBC solution suitable for EX zones 1 and 2.

- ▶ Suitable for EX-zones 1 and 2 (CENELEC-TR50404:2003- and BGR-312 certified)
- ▶ Multilayer bottle with anti-static outer layer
- ▶ Structured surface of the screw cap prevents charging during handling
- ▶ Discharge valve and pallet provides integrated grounding and conductive connection to metal cage and ground respectively
- ▶ Prominent yellow label details handling instructions
- ▶ Distinctive yellow corner protectors identify the IBC as non-standard



EX UL IBC

Combines a special static dissipative HDPE bottle and a patented high temperature resistant fire blanket with components that are electrically bonded together to provide a conductive path to the ground.

- ▶ Fulfills composite IBC specification requirements summarized in NFPA 30 - Flammable and Combustible Liquids Code
- ▶ Classified in accordance with UL 2368 standard
- ▶ UN 31HA1/Y
- ▶ Suitable for use in EX-Zones 1 and 2 designated areas when applicable safety measures are followed
- ▶ Bottle and valve protected by patented high temperature resistant fire blanket
- ▶ Complies with FDA food and drug regulations



Mauser Poly-MT IBC

The Poly-MT IBC is a heavy-duty, multi-trip, all-plastic IBC that offers exceptional durability, corrosion resistance, product protection and sustainability benefits.

- ▶ Designed for reuse and a maximum number of rotations
- ▶ Dimensions similar to standard composite IBC - fitting existing logistics and return/reconditioning systems
- ▶ Full-cover, all-poly outer box protects container and filling good from corrosion and light
- ▶ UN certified for Packaging for Dangerous Goods II up to density of 1.9 g/cm³
- ▶ IoT ready with QR, NFC, and GPS capabilities for full supply chain transparency



Stainless Steel IBC

Our corrosion resistant, stainless steel IBC portfolio is engineered to last for years in service in demanding and harsh environments.

- ▶ Available in sizes ranging from 125 - 550-gallons
- ▶ Ideal for challenging applications like storing flammable or corrosive liquids, or hygiene critical fluids
- ▶ Retain their integrity across a broad temperature spectrum for reliable stability in extreme heat and cold
- ▶ Post-use, can be collected through Recover Syst-M



Infinity Series IBC

The UN-certified Infinity Series IBC bottle features up to a 28% lower carbon footprint compared to a bottle made from 100% virgin resin.

- ▶ Innovative 2-layer bottle whereby the innermost layer is made from 100% virgin HDPE material while the external layer is made from up to 35% PCR material
- ▶ All components in direct contact with the filling good are made from 100% virgin material
- ▶ Same dimensions as new or reconditioned composite IBC for seamless integration
- ▶ Same specification options as with any new or reconditioned IBC
- ▶ No restrictions in collection or reuse
- ▶ UN-Certified



Mauser reCO₂ Series IBC

Through the use of low-carbon virgin and recycled feedstock materials, the Mauser reCO₂ Series achieves as close to a carbon neutral footprint as possible.

- ▶ Meets the same strict performance requirements as our standard composite IBC
- ▶ Our supply chain partners have independently verified processes, supporting transparency and giving you the confidence to report low carbon emission products data
- ▶ Currently available in 1,000L / 275G size



FoodProtect & CleanProtect IBC

Through our comprehensive food safety programs, FoodProtect and CleanProtect help ensure your products and reputation are protected throughout the supply chain.

- ▶ Designed to meet multiple third-party recognized quality and food safety standards including ISO, GFSI, FSSC 22000, HACCP & GMP/GHP and BRC
- ▶ Available with antistatic for EX zones
- ▶ Variety of openings available for different types of ventilation
- ▶ Green lid and discharge valve handles quickly indicate food product to employees
- ▶ Stringent hygiene and safety standards on materials and processes
- ▶ Regular microbiological surface inspections and testing of absence of silicone



Reconditioned IBCs

Responsibly extend the life cycle of packaging with reconditioned IBCs.

- ▶ Washed or Rebottled
- ▶ UN-Certified, EX, LP, and Infinity Series options
- ▶ Subject to rigorous cleaning, repair, and quality processes
- ▶ Offer up to an 80% lower carbon footprint without compromising performance
- ▶ Post-use, can be collected through Recover Syst-M



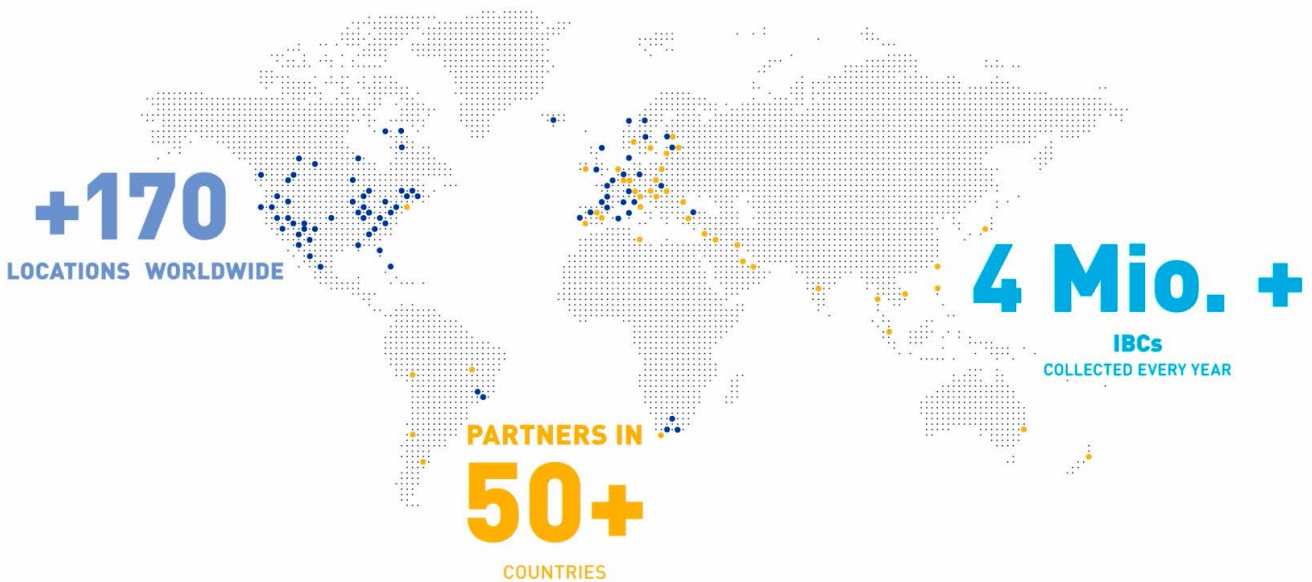
Recover Syst-M is a global empty packaging collection platform designed to extend the lifecycle of industrial packaging such as IBCs and drums.

Through Mauser Packaging Solutions' extensive collection and reconditioning network, Recover Syst-M helps divert packaging waste from landfills, reduce carbon emissions, and support the circular economy.

Benefits:

- ▶ Mauser takes responsibility for collection, professional reconditioning and/or safe disposal of your empty packaging materials
- ▶ We collect empty IBCs and drums from most major manufacturers
- ▶ TÜV-certified CO2 savings
- ▶ Premium access to reconditioned and Infinity Series packaging

The Most Advanced Global Packaging Return Program



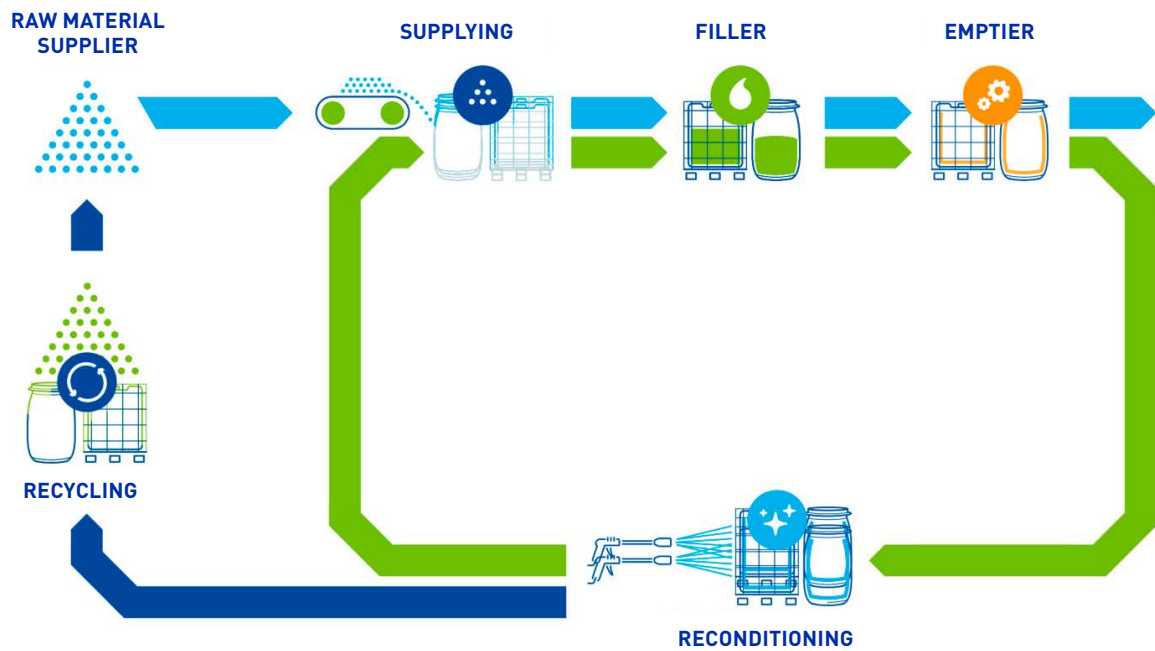


Recolop Syst-M is a platform designed to facilitate the reuse of Intermediate Bulk Containers within a closed loop system. With Recolop Syst-M, you maintain ownership of your IBCs, while we handle the collection and reconditioning.

Discover how Mauter Packaging Solutions is transforming packaging from a product into a service – and helping customers achieve their sustainability goals.

Benefits:

- ▶ Full traceability and ready for PPWR support
- ▶ Advanced tracking at unit level
- ▶ Optimized reuse cycles and cost savings



Types of Reconditioned IBCs

Rebottled IBC

- ▶ New bottle, original cage and pallet
- ▶ Wide portfolio range
- ▶ UN-certified options available
- ▶ Meets rigorous quality standards

Washed IBC

- ▶ Original bottle, cage, and pallet
- ▶ UN-certified options available
- ▶ Small repairs with original spare parts are possible

Recolop IBC

- ▶ Used, empty IBCs collected from customers for rebottling or washing and returned to them ready for use
- ▶ Customers retain ownership throughout the process
- ▶ Lowers the risk of cross-contamination
- ▶ Supports PPWR initiatives