

A dynamic graphic on the left side of the slide showing a stream of water falling and splashing, with a green triangle at the bottom left corner.

Liquibox - Inopack Partnership

Bag-in-Box

15-16th February, 2024

Company Overview

SEE Brands

CRYOVAC[®]

Materials, sustainable solutions, equipment, and technology to maintain food quality and safety, and minimize waste

Autobag[®]

Automated mailer systems, cartooning systems, and bagging equipment designed for high-productivity packaging


BubbleWrap[®]

Materials and equipment for items requiring blocking, bracing, cushioning, void fill, or surface protection throughout the shipping process

liquibox[®]

Materials, dispensers, filling equipment, and sustainable solutions to preserve the integrity of liquid products

Sealed Air[®]

Engineered protective packaging solutions that enable products to ship faster and arrive safer

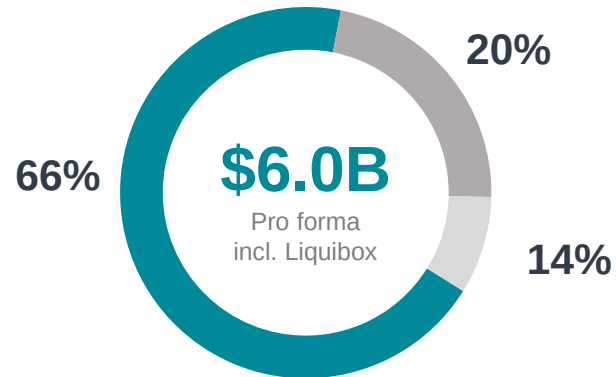
prismiQ[™] 

Design, printing and connected packaging services that drive business performance for brand owners

SEE[®] at a Glance

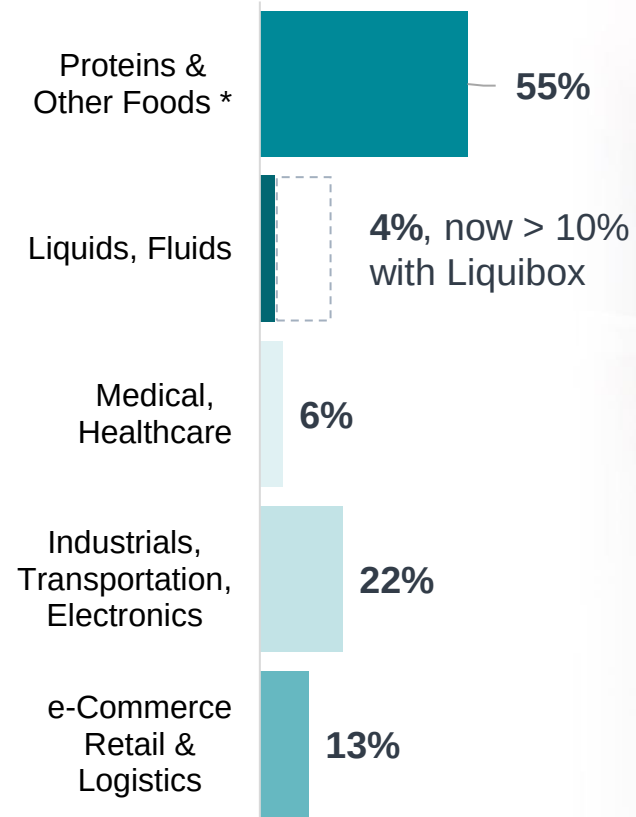
~17,300	Employees
114	Manufacturing Facilities
39	Customer Packaging Design Centers
9	Equipment Design Centers
9	Innovation Centers
Virtual	Graphic and Package Design Studios
Virtual	MySEE Order Entry and Customer Service
> 30 B	Packages Sold
	Including Liquibox

2022 Sales by Region



■ Americas ■ Europe, Middle East, Africa ■ Asia Pacific

2022 Sales by End Market



* Other Foods includes frozen foods, produce, pantry items, meal kits and plant-based proteins

Worldwide Operations

To support long-term growth

Headquartered in Richmond, Virginia USA

Working as one across 17 locations, serving more than 100 countries

Powered by a global workforce of more than 1,400 employees

- 
- ★ Headquarters
 - Liquibox Flexible Packaging Manufacturing
 - Worldwide Dispensers™ Fitment Manufacturing
 - Office

Sustainability

Driving towards a more sustainable future

Our commitment to sustainability flows through everything we do from the products we produce to how we produce them in our everyday operations to the community we live in.

Products

designed for the planet. Our strategy to reduce our carbon footprint includes:



Lightweighting & downgauging



Designing for recycling & recovery



Use materials with minimal impact on the environment



Reduce energy consumption & GHG emissions



Reduce waste to landfill



Improve employee health and safety

Operations

with less impact. As a global company operation in five continents, we're implementing programs to:

People

actively collaborating and engaging in the community. We believe it's our social responsibility to:



Build community engagement



Advance sustainable packaging



Create an inclusive workplace

Industry acclaimed certifications

At Liquibox, we are committed to quality.

We are dedicated to providing the highest quality standards of food safety, hygiene and sanitation for our films, fitments, fillers and services.

Safe Quality Food (SQF Level 2 and 3)

FDA / IMS (Interstate Milk Shippers)

Kosher and Halal

ISO 9001 - Process Standardization

ISO 14001 - Environmental Management

ISO 22000 - Food Safety Management

FSSC 22000

BRC / IOP (British Retail Consortium)

Customers and brands we serve



Industries we serve



Beverage

Coffee & tea
Juice
Post-mix syrup
Water
Wine & spirits
Beer



Liquid food

Dairy
Edible oil
Fruits & purées
Liquid egg
Sauces
Soups



Non-food

Adhesives
Chemicals
Paint & coatings
Cleaning
Automotive
Pharmaceuticals

Key product portfolio - LIQUIBOX



Bag-in-box



Worldwide Dispensers
taps & fitments



Filling equipment



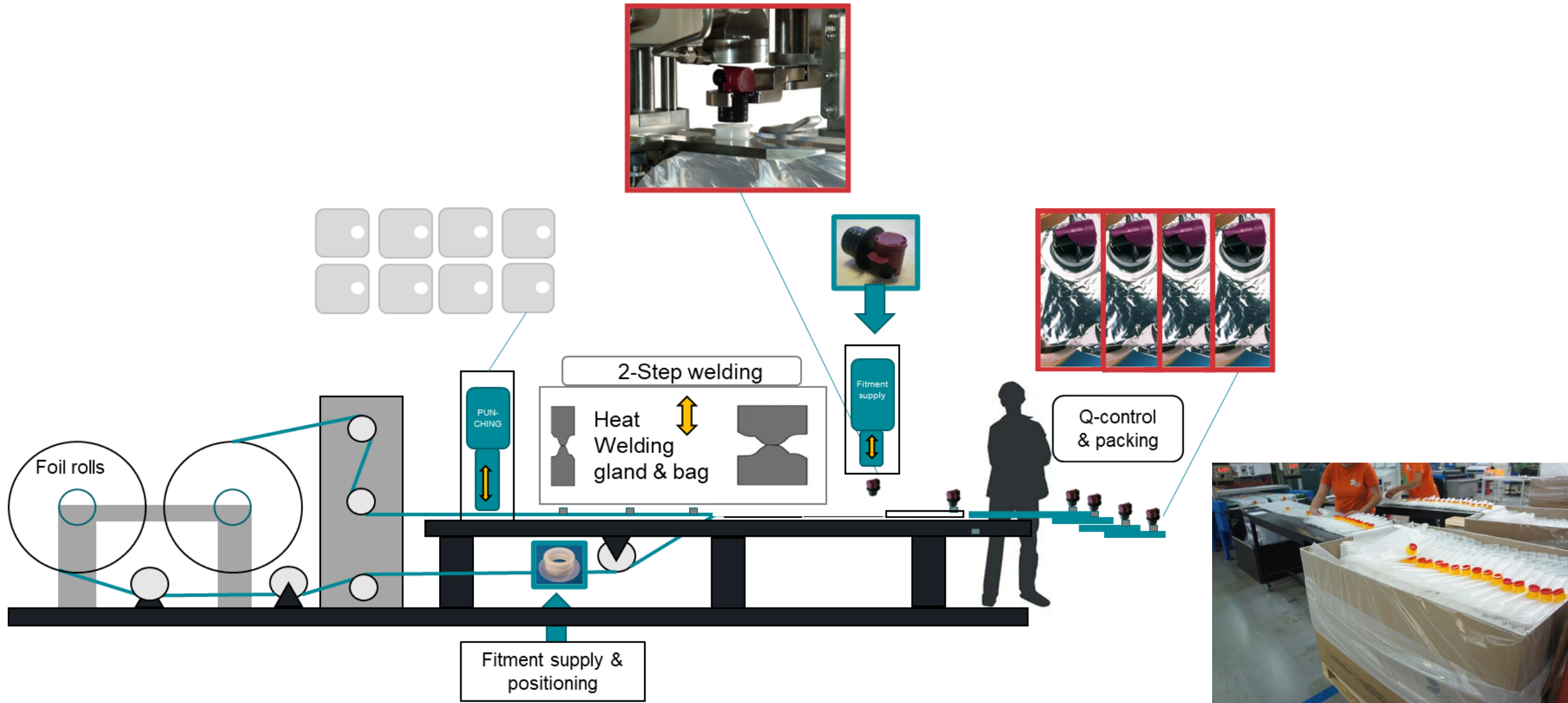
Urn-liners

Bag-in-Box packaging

- Full system supplier – fitments, bags, fillers
- Size range from 1L to 1100L
- Standard sizes 3L, 5L, 10L, 20L, 220L, 1000L, 1100L
- Standard sizes for Dairy mainly 10L, but also 5L
- Barrier film options are MET, EVOH and LIQUIPUE.
- Low, Medium and High Barrier protection
- Single and Web (Perforation) type of bags
- Low investment cost compared to other technologies



Bag-in-Box production process

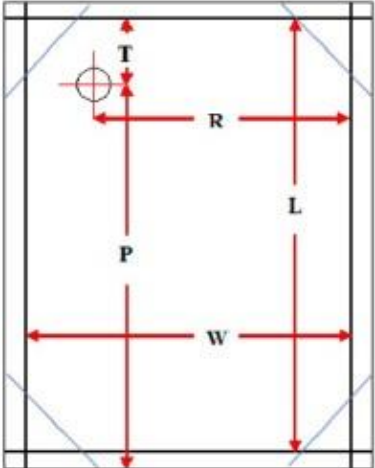


Advantages of Bag-in-Box

- Practical fitments and dispensing options
- Better shelf-life efficiency after opening (up to 8 weeks for wine) compared to traditional liquid packaging
- Excellent O2 barrier
- Very low CO2 impact
- Safe, hygienic and secure
- Non-tear bag
- Minimal waste
- All content can be discharged
- Storage and Logistics - Less space when empty and full (stackable, and foldable)
- Lower shipping costs due to light weight



Bag specifications

Ref: 3-3LMTS-WF4-CAK		Status: DRAFT	3L MET (A) SINGLE VINIFLOW Natural/Red CORNER DELTAS
Material Structure: Outer Material: 72µm metPET Middle Material: Inner Material: 45µm LDPE		Fitment: For more information on the fitment please contact your local sales rep. Spout Type: C-201662 Cap Type: CA-302951 Valve Direction: Esquina 12 o'clock 	
OTR cc/(m2-day) < 1		Physical Properties: Irradiation: N/A Fill Volume: 3L Max Fill Temp: N/A Bag Weight: 38,4g Perf Strength: n/a Feed Direction: n/a	
		Special Instructions:	
Bag Dimensions Bag ID (Width)- (W) Bag ID (Length)- (L) Spout from Right Seal- (R) Spout from Top Seal- (T) Spout from Top Perf- (U) Spout from Bottom Perf- (P) Tolerance on all dimensions:		Target 245mm 320mm 195mm 50mm 50mm +/-5mm	
Packaging: Bags per Box: 500 Boxes Per Pallet: 14 Total Pallet Weight: 343kg Total Pallet Dimensions: 1200 X 800 X 2504 mm		Pallet Conf: 2 Specific Regs: BIOLOGICAL: Not detected pathogenic microorganisms following Notification of the Ministry of Public Health (No. 295) B.E. 2548 (2005) such as -Bacillus cereus, -Clostridium perfringens, -Listeria monocytogenes, -Salmonella spp, -Staphylococcus aureus CHEMICAL: Not give out other substances to contaminate with food in a quantity that may be hazardous to health. The analysis of qualities or standards of dispersion such as: -Europe : Europe Commission Regulation No 10/2011, 2017/752 and Regulation 1935/2004 on Overall migration, Specific Migration of Heavy Metal Test for Plastic Food Contacting Materials/Articles and 94/62/EC Directive on Toxic elements analysis packaging and packaging waste. Allergenic substances (EU-Directive 1169/2011 of 25.10.2011). The food ingredients listed in the Annex II, are not used in the manufacturing of our products or the used raw materials intentionally. -USFDA : U.S. 21 CFR Food and Drug Administration part 177.1520 clauses (c)(2.1) and modify on density. -Japan : Japan Ministry of Health, Labour and Welfare Notice No. 370 and its amendments Part III Section D for the compliance of the provision of paragraph 1 of Article 1 and Article 10 of Japan Food Sanitation Law (Law No. 233) -Korea : Standards and Specifications for Food Utensils, Containers and Packaging for Food Products. -China : GB 4806.7-2016 National Food Safety Standard Food Contact Plastic Materials and Articles Clause 4.2 and Clause 4.3 on Sensory and Physicochemical index -Australia and New Zealand : Australia Standard AS 2070-1999 (by Food Standard Australia and New Zealand -FSANZ) -Thailand : Notification of the Ministry of Public Health (No. 295) B.E. 2548 (2005)	

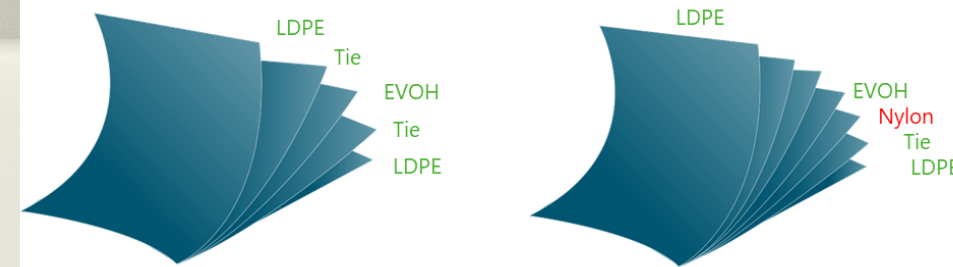
This specification is not a guarantee of the packed product performance. It is the responsibility of the purchaser to prove this product is fit for the purpose intended. Any subsequent Changes to the fill product, outer packaged or packaging process must be advised to Liquibox and this product revalidated by the purchaser under the new conditions.

Liquipure® recycle-ready packaging for a waste-free future



Sustainability and performance, **you can have it all!**

With our new mono-material flexible packaging, you no longer have to choose between reliable product protection and meeting your sustainability goals.



Filling equipment

Bag-in-box fillers



- Semi-automatic – 10 Liter: 250-300 bag per hour (2,5-3 tons/hour)
- Fully-automatic – 10 Liter: 600-700 bags per hour (6-7 tons/hour)
- Single head and
- Multi-head
- Standard
- Aseptic filling

Thank You!

Danke Dankjewel Благодаря 谢谢 Hvala Dík Tak Aitäh
Kiitos Merci Ευχαριστώ Köszönöm Grazie Paldies Ačiū
Ви благодарам شكرا لكم Dziękuję Obrigado Mulțumesc
Ďakujem Gracias Tack ขอบคุณ Teşekkür ederim