

Requirements and solutions

As light and unbreakable as PET and as protective as glass: this is the ideal description of a bottle that meets all the requirements of the beverage and food industries. Compactness, economy and flexibility are the decisive factors taken into account by the industry today when investing in a production system.

The unique InnoPET FreshSafe block enables all of the above , namely the particularly efficient manufacture of the perfect bottle which:

- Provides the ingredients and flavor of the filled product with optimum protection and greatly increases the product shelf life
- Prevents CO2 from escaping from and oxygen from penetrating the PET bottle
- · Optimizes the cost balance of production.

The InnoPET FreshSafe block directly blocks the InnoPET Plasmax 20Q(S) coating system with the InnoPET Blomax Series IV stretch blow molder.

Key features

- Tried-and-tested stretch blow molding technology for the high-precision manufacture of PET bottles of various design
- Proven coating technology combines the benefits of PET and glass
- A patented coating system finishes PET bottle interiors with a fully transparent and highly flexible protective coating of chemically pure glass(SiOx)
- · The ultra-thin interior coating protects the contents and extends the shelf life
- Low total operating costs thanks to high availability with low consumption of energy and materials
- · Efficient, resource-saving, cost-effective bottle manufacture
- · Gentle bottle handling
- · 100% bottle-to-bottle recycling
- Maximum efficiency also when processing lightweight PET thanks to consistent neck handling.

Standard equipment

- Manufacture and coating of non-returnable PET containers holding between 0.1 and 1.5 liters
- · Output of up to 46,000 bottles per hour (containing 0.25 liters maximum)
- Machine concept permits both lightweight bottles and other PET containers to be processed
- · Bottles are directly conveyed to the coating system by a transfer wheel and transfer star
- The central control and servodrive concept permit individual machines to be decoupled in the event of stops
- · Fully automatic machine monitoring and process control for simple operation by one operator.







Benefits

- The elimination of conveying segments means:
- Reduced investment
- Less space required
- High machine availability
- High standard of hygiene.
- Gentle bottle handling by neck guides and low number of transfer stations
- Less operator involvement can be operated by one person
- Premium product protection thanks to unique interior glass coating (SiOx):
- · Crystal clear and extremely flexible
- · Universal and high quality protection for oxygen-sensitive and carbonated beverages and for liquid foods
- Sustainable containers are 100% bottle-to-bottle recyclable
- Suitable for use with food products
- Longer shelf life.



Service

- Worldwide service and application advice
- · Fast supply of spare parts
- · Customized design
- · Complete line design
- Bottles & Shapes™ bottle design, development and tests
- Individual coating process optimization and laboratory testing

Options

- Coding system for traceability of coated
- · Quality control with the Plasmax barrier quick tester
- Air conditioning for higher ambient temperatures
- Integrated quick-change system for various neck diameters
- · Impact air cooling
- · Airback Plus
- Preform inspection

Technical data

Container capacity

0.1-1.5 l

Container height

80-320 mm

Container diameter

34-95 mm

Neck ring diameter

20–38 mm

Output (standard container: 0.25 l)*

FreshSafe block with InnoPET Plasmax 20Q: up to 40,000 bph FreshSafe block with InnoPET Plasmax 20QS: up to 46,000 bph

Stretch blow molder

InnoPET Blomax: 12–28 cavities

Coating machine

InnoPET Plasmax 20Q: 0.1-1.5 l InnoPET Plasmax 20QS: 0.1-0.35 l

*The output depends on the bottle, preform and product to be filled.

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Edition: 12/13/16-en. Subject to modification

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