

## 1\_INNOPET FRESHSAFE TRIBLOCK

### STRETCH BLOW MOLDING/COATING/FILLING UNIT FOR MAXIMUM PRODUCT PROTECTION

PET PACKAGING SYSTEMS



#### 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 InnoPET FreshSafe TriBlock directly blocks the InnoPET Plasmax 20Q(S) coating system with the InnoPET Blomax Series IV stretch blow molder and Innofill PET DRV or NV filling system.

#### Key features

- Tried-and-tested stretch blow molding technology for the high-precision manufacture of PET bottles of various design
- An innovative coating process finishes PET bottle interiors with a fully transparent and highly flexible protective coating of chemically pure glass (SiO<sub>x</sub>)
- The ultra-thin interior coating protects the contents and extends the shelf life
- Gentle bottle handling as the bottles are conveyed by transfer stars
- 100% bottle-to-bottle recycling
- High flexibility and optimum filling of carbonated and non-carbonated soft drinks
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- Volumetric DRV and NV filling system for precise filling volumes
- The hygienic design of the Innofill DRV/NV enables short cleaning times and high system availability

#### 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)
- 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
- Electromagnetic inductive flow metering to determine filling volumes
- Mechanical screw capper for reliable closure torque





#### Benefits

- The elimination of conveying segments means:
  - o Reduced investment thanks to the lower space requirement
  - o High machine availability
  - o High standard of hygiene
- Gentle bottle handling by neck guides and low number of transfer stations
- Less operator involvement: only one operator needed
- Premium product protection thanks to unique interior glass coating (SiOx):
  - o Crystal clear and extremely flexible
  - o Universal and high quality - protection for oxygen-sensitive and carbonated beverages and for liquid foods
  - o Sustainable: containers are 100% bottle-to-bottle recyclable
  - o Longer product shelf lives
- Computer-controlled filling systems for individually configurable, low-foam filling



#### Service

- Worldwide service and application advice
- Fast supply of spare parts
- Customized design
- Complete line design

#### Options

- Coding system for traceability of coated bottles
- Air conditioning for higher ambient temperatures
- Integrated quick-change system for various neck diameters
- Impact air cooling
- Airback Plus
- Preform inspection
- Flavor-resistant seals for flexible production planning
- Servo screw capper for maximum hygiene and flexibility
- Hygiene housing classified for sensitive products

#### Technical data

##### Container content

0.1 l-1.5 l on the InnoPET Plasmax 20Q; 0.1 l-0.35 l on the InnoPET Plasmax 20QS

##### Container height

80 mm-320 mm on the InnoPET Plasmax 20Q; 80 mm-220 mm on the InnoPET Plasmax 20QS

##### Container diameter

34 mm-95 mm

##### Neck ring diameter

20 mm-38 mm

##### Output (standard 0.25-l container)\*

FreshSafe TriBlock with the InnoPET Plasmax 20Q: up to 40,000 bph

FreshSafe TriBlock with the InnoPET Plasmax 20QS: up to 46,000 bph

##### Stretch blow molder

InnoPET Blomax: 12-28 cavities

##### Coating machine

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

##### Innofill PET DRV and NV filling systems

DRV: 54-180 filling stations; NV: 40-120 filling stations

##### Screw capper

Mechanical/servo screw capper in a pitch circle of 360 mm-1,080 mm

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

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