



ECONOPOS

FULL AUTOMATIC BOTTLE UNSCRAMBLER
AND BOTTLE ORIENTER

SERIES
BFA/BFC/BFL/FWS

food
cosmetics
chemicals
pharmaceuticals | english

The BREITNER Unscrambler offers powerful but gentle handling for fully automatic unscrambling of plastic bottles and containers of different shapes. The design of the operating system is such as to keep the need for size change parts to a minimum. Hereby the machine can be quickly and cheaply converted from one container size to another. The bottle guide transport belts provide gentle and reliable transport, even with problematic bottle shapes and materials (especially PET).

ALLROUNDER

THE OPTIMAL SOLUTION FOR PLASTIC BOTTLES AND CANISTERS

- Suitable for almost all plastic bottles
- High output up to 20,000 bottles / hour
- Bottle hopper available in different sizes
- Minimal size change parts
- Easy and quick format change (under 10 minutes)
- Minimal floor space usage
- Immediate restart without optimization phase
- Control with recipe management
- Transport systems, vacuum belts, turning station, pucker and control stations as possible extensions

TECHNICAL SPECIFICATIONS

THE BASIC MACHINE

Continual operation from the container storage hopper

Hopper capacity of 1.4 cubic meters to 13 cubic meters
(with additional hoppers)

Sorting drum - Ø 1,000-1,800 mm

Travel direction from left to right

Working height 900 mm

SUPPLY

Electric Power 3 x 400 V, N, PE, 4 kW

Compressed air 400 NI / min (BFA and BFL optional without air)

IT IS ALSO EASY ...



exemplary picture

THE ECONOMIC ONE

TYPE BFA

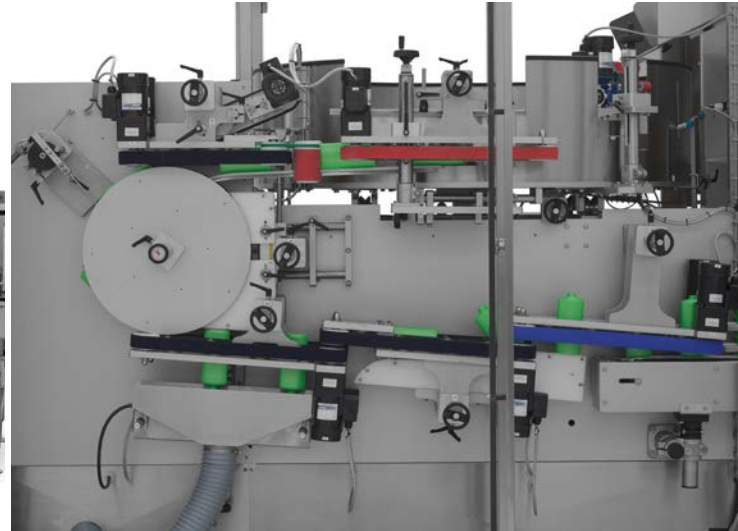
- Output up to 300 bottles / minute
- Economical option for round or oval straight-walled bottles of 50 – 3,000 ml
- Bottle sizes up to Ø max. 100 mm and height max. 250 mm
- Hopper volume of 1.7 up to 10 m³ (free standing)
- The bottles are clamped by two belts and orientated vertically if necessary
- Integrated turning station for orientating asymmetric bottles (option)



THE COMPACT ONE

TYPE BFC

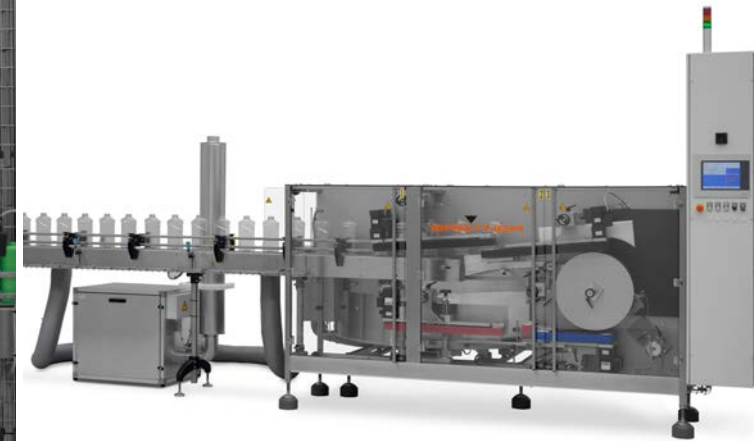
- Output up to 200 bottles / minute (container dependent)
- Bottle sizes from 50-3,000 ml
- Hopper, elevator and sorting drum designs are compact, integrated and enclosed
- Small footprint
- Blowing of bottles with ionized air as an available option (bottles are thereby inverted)
- Only 3 size change parts per format
- Integrated turning station for orientating asymmetric bottles (option)



THE FAST ONE

TYPE BFL

- Output up to 350 bottles / minute (depending on bottle)
- Bottle sizes from 50-3,000 ml
- Space-saving and very compact
- With separate hopper
- Only 3 size change parts per format
- Integrated turning station for orientating asymmetric bottles (option)



CONTROL

ERGONOMIC AND EASY TO USE

- Logical and sophisticated machine control
- Graphical user interface and operator adjusted panel
- Variable user levels - allow selectable access to settings and parameters
- Touch-display 26.5 cm (10.5 inches) – Important basic functions operated separately by illuminated button
- All parameters are entered into the recipe/format and back-up held on USB Stick as additional security
- Information and any error messages displayed in plain text
- User login via transponder (option)
- Design according to the latest Machinery Directive 2006/42/EC
- Service modem / router via VPN for any external service requirement (optional)
- Switching to other languages (option)
- OPC server connection (option)

The machine control, and its ergonomic design, allows for a variety of solutions for various containers and product properties ensuring also the shortest format and product changes. Once optimized, parameters for the production are saved in the recipe.

The menu for machine operation is simple, - buttons and parameters, not needed for regular operation, are kept hidden.

BOTTLE TURNING STATION

TYPE WFS

For orientating asymmetric bottles and canisters on the conveyor belt.

The recognition of the bottle orientation takes place using either a camera system or light sensors.

The bottle is either rotated by a servo motor driven turning fork for 180 degree rotation or by driven double belts at the bottleneck for any rotation.

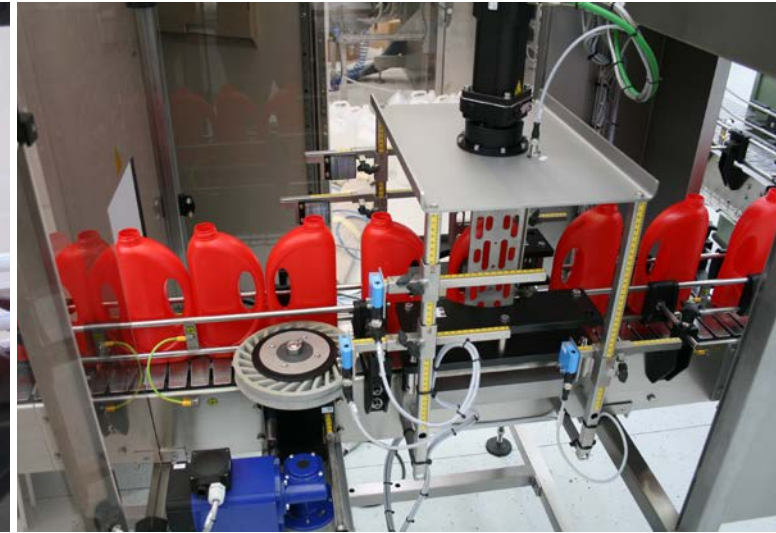
An optional vacuum belt stabilizes the bottle when needed.

The station is either integrated into the control of the Unscrambler or can also be run as stand-alone machine with its own control.

OPERATION AND PERFORMANCE

SEPARATION OF THE BOTTLES

- Location detection by the camera or optics
- Variant a) 0 or 180 degrees rotation
- Variant b) 90 or 270 degrees rotation
- Up to 250 bottles / minute



VERSIONS

ACCORDING TO YOUR REQUIREMENTS

- Level monitoring of the storage hopper
- Orientation for asymmetric bottles after unscrambling
- Various hopper capacities
- Blowing of bottles with ionized air as an option (bottle is thereby placed overhead) only type BFC
- control and sorting
- depucker
- Option „without compressed air“
- Special lining for scratch-sensitive bottles (e.g. PET)
- Vacuum belts for unstable bottles

AVAILABILITY - SERVICE - SOLUTIONS

BREITNER has built packaging machines for over 50 years for the liquid sector and has enormous experience.

This includes Filling and Closing machines for bottles/containers at output speeds from 10 to 360 per minute. It also includes ancillary machinery for the filling line such as unscramblers and feed-tables.

Our customers include the Cosmetics, Food, Chemical and Pharmaceutical industries worldwide.

From over 100 employees, approximately 20 technicians are committed to developing new technical solutions and innovations and bringing them to reality. CNC production machines and short ways to development are the guarantee for simple solutions. Programming, structure of the control panels and cabling all

takes place in-house. This includes continuous documentation for the standards, which ensures production capacity is quickly restored in the event of operator error.

To this day, machines that have provided over 20 years faithful service continue to operate and be maintained as before.

Through our design and manufacturing of machine parts, enclosures, software and self-assembly, we provide one-stop solutions and offer direct service.

Our mechanical and electrical technicians are the inspiration for each of your machines and are available for any assembly, training and maintenance required by you - we guarantee this.



CIP/SIP

VTR
Trigger

SERVO CAP

CAFI

CNC SYSTEMS