



MONOBLOCK

ROTARY FILLING MACHINE
WITH INNOVATIVE FLOW METERING TECHNOLOGY
VOLUMES FROM 20 ML TO 3 LITRES

SERIES
IDR/MDR

This rotary filling machine provides constant high performance whilst at the same time quiet continuous motion. Ideally suited for products such as ketchup, mayonnaise, shampoos as well as cleaner or toilet gels.

For foaming products, the fill tube is lowered completely into the bottle for 'bottom-up' filling to eliminate the tendency to foam and gradually extracted as the filling process takes place.

The flow meter filling system offers a large dosing range, allowing for easy and comprehensive cleaning and wear-free operation. For individual products and their respective packaging a number of parameters are set once, optimized, and then stored into the machine memory for future recall for subsequent repeat runs. This results in consistent, precise, fast and clean filling. The subsequent cleaning is also done automatically in an optimal time frame having a predetermined amount of cleaning media.

THE CONCEPT

IMPLEMENTED IN THE REALITY

FILLING HEADS	12, 16, 24 or 30
VOLUME	20 bis 3,000 ml
OUTPUT MAX	350 pcs / min.
FILLING	Individual filling tubes - closing in the bottle
FILLING CAM	Bottle raising by mechanical cam
FORMAT MEMORY CAPACITY	200 formats
MONOBLOCK	combination with ROTARY CAPPER (see separate brochure)



INDIVIDUAL AND COST SAVING



THE FILLING SYSTEM

MANUAL STRIP DOWN WAS YESTERDAY

Ideal for filling of low to high viscosity products in the higher power range. Dosing is pneumatically opening and closing the fill pipe which is completely submerged in the bottle and remains at the filling level during filling. After the end of production, the tube may be easily cleaned - tube system of the product / CIP pump via the intermediate tank.

Cleaning can, depending on the requirement, be with various cleaning agents. There are no moving piston or load cells, which are subject to wear or be damaged in the atmosphere.

DYNAMICS

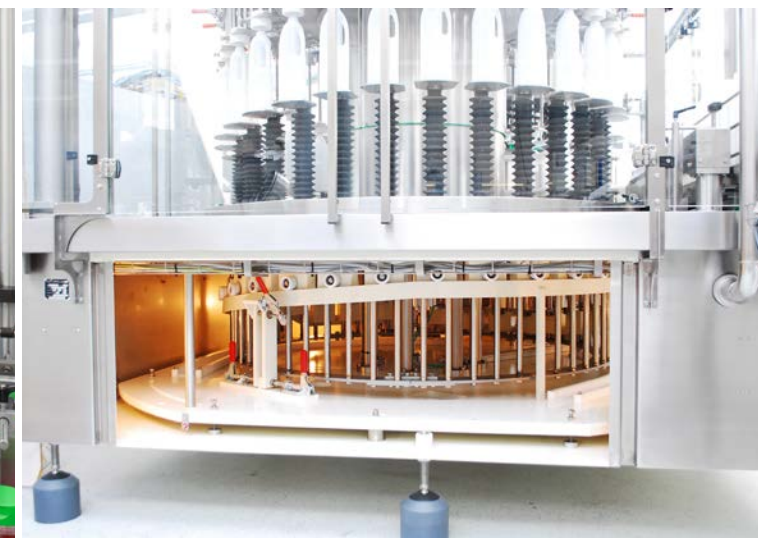
CONTAINER TRANSPORT MADE SIMPLE

- Gentle bottle separation by separator infeed scrolls
- Tailor-made bottle star-wheels for bottle transfer
- A wide range of bottle sizes and shapes may be run
- Conveyor belt body made of stainless steel (standard)
- Easy to clean conveyor belts (bottom open)
- Pharmaceutical conveyors (option)
- Conveyor cleaning with spray nozzles or chain wash (option)
- Complete enclosure of the conveyor belts (option)

BOTTOM-UP FILLING

TO PREVENT FOAM AND AIR IN THE PRODUCT

- Mechanical lift curve for bottle raising (adapted to suit product and bottle)
- Optimized sub surface with foaming media.
- Fill valve directly to the bottom of the fill tube - closing in the product.
- Bottle centering by means of the bottle neck.



CONTROL

ADAPTED TO MEET THE NEEDS OF THE MACHINE OPERATOR

- Flow meter with mass flow measurement (MDR) or inductive flow meter (IDR)
- Logical and sophisticated machine control
- Graphic operator control interface
- Settable user levels – to allow for infrequently used or adjusted switches and parameters to be hidden from the operator
- Touch Display 26.5 cm (10.5 inches)
- Key features separately as an illuminated buttons
- All parameters are stored in the format / recipe (secured on a USB stick)
- Instructions and error messages in plain text
- User login through CHIP (option)
- Service Modem / router via VPN for any service cases (option)
- OPC Server Connection / BDE (option)
- CIP / SIP - configuration by command table / step table

The machine control and ergonomic design provide versatile solutions for a variety of containers and product. Properties that lead to the shortest format and product changes. Once optimized parameters for the production are recipe saved. The menu for machine operation is simple, - unused „buttons“ and parameters are hidden.

CLEANING CIP/SIP

DIS-ASSEMBLY WAS YESTERDAY

- The product feed is a pipe-hose system with essentially no moving parts
- Smooth product handling with drain at the lowest point (optionally with seals, which can be cleaned all around)
- Cleaning in swivel tube or closed catcher (option)
- Fully automatic CIP Integration into your existing system
- Fast preparation for CIP cleaning and sterilization
- Temperature and ph-value of the cleaning media can be measured in CIP return line (option)
- Validated cleaning program with pre-determined amounts of cleaning media/-times
- Product distribution by rotating distributor (back flushing of the seal possible)

EXECUTIONS

IN COMBINATION WITH CAPPING TECHNOLOGY
- MONOBLOCK

- Rotary capper in conventional or servo execution
- Screw-on and push-on closures
- Angle neck containers and stopper inserting (bottle tilting)
- Puck system for flimsy containers
- Small footprint since no accumulation space required between filler and capper
- Continuous container guiding (Hepa filters optionally available)



ATTRIBUTES

THAT ARE SAVING COSTS

- Simple, tool-less format changes
- Fine tuning of parameters possible during machine run
- Once fine tuned parameters are saved in recipe
- Instant machine restart w/o prior optimization stage
- Enormous versatility – also towards future products, formats and CIP / SIP operations

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