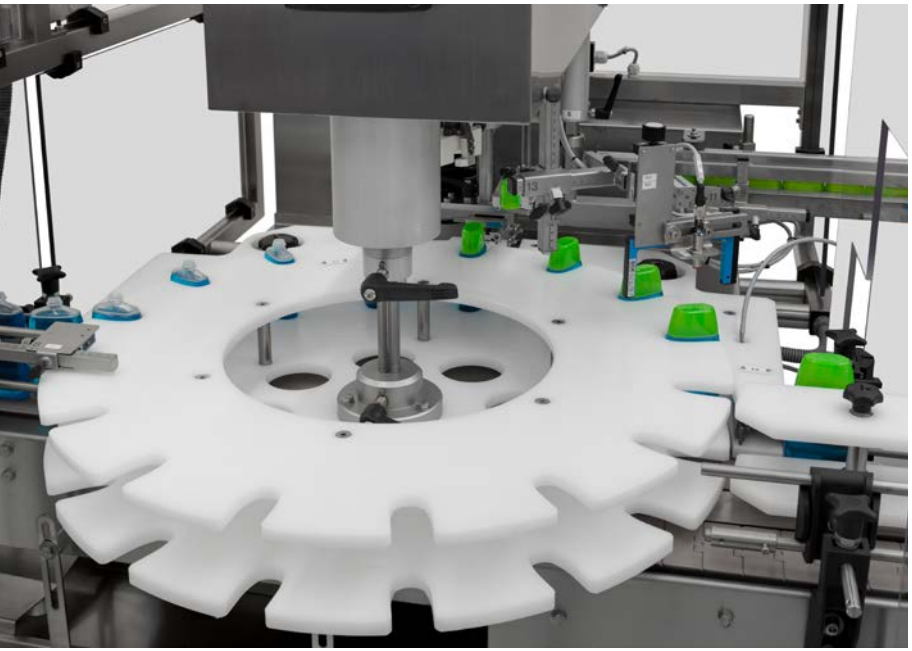
BREITNER®

ABFÜLLANLAGEN GMBH
- MASCHINENFABRIK-



CLASSIC

CAPPING MACHINE
SINGLE HEAD

SERIES
VS/VC/VE

food
cosmetics
chemicals
pharmaceuticals | english

CAPPING OF LARGE AND SMALL CONTAINERS FOR FOODS, COSMETICS, CHEMICALS AND PHARMACEUTICALS

High output by a cycling transport star-wheel. The capping head is provided with a slip clutch. This allows processing of various types of closures.

BASIC STRUCTURE OF THE MACHINE

Covers and enclosures of the machine are made of stainless steel AISI 304. The external guarding is made of stainless steel frame with poly-carbonate or safety glass (optional). The drive elements are easy to maintain, installed in the machine housing.

BASIC FUNCTIONS OF THE MACHINE

The containers are transported by a conveyor belt into the machine and positioned by a transport star at the capping station.
The speed is set by a parameter. The torque of the screw spindle is limited via a slip clutch.
The transport speed of the star-wheel is determined by the transmission step of the main motor.
After the container is closed, it is driven out of the machine by conveyor belt. The outlet is monitored by photoelectric sensors to stop the machine in the case of malfunction should a possible build-up of containers occur, in the event of a jam in the cap chute, for example.

BENEFITS

- Spindle speed infinitely adjustable
- Robust and compact design – wear free
- Easy and quick format change
- „Pick and place“ system for closures
- Torque by permanent magnetic coupling „fade - free“

OPTION: PLUGS / CLOSURES (VC OR VE)

- Combined closing with screwing station and crimping device (VC)
- Without screwing station - Format for pressing only (VE)
- Space for additional processes before capping; for example, insertion of droplet device, pouring aids, deodorant ‘ball’ …
- Space for additional processes after capping, for example, applying of protective caps, measuring cups, over-capping ...

OPTION: SERVO SCREW DRIVE

- Spindle speed infinitely adjustable
- Torque controlled electronically
- Reverse run when applying the closure to avoid cross-threading
- Asymmetric caps can be handled, with sensors to ensure the closure is applied in the correct orientation (e.g. hinge closures)
- Automatic checks of the set torque and evaluation of the rotation angle

CONTROL / FAULT REJECT

- Closure height or presence detection (option)
- Fault alert by machine stop or by ejection to a separate conveyor belt (option)
- With the optional servo version, torque or rotation angle detection

exemplary picture

FEATURES
COST REDUCTION

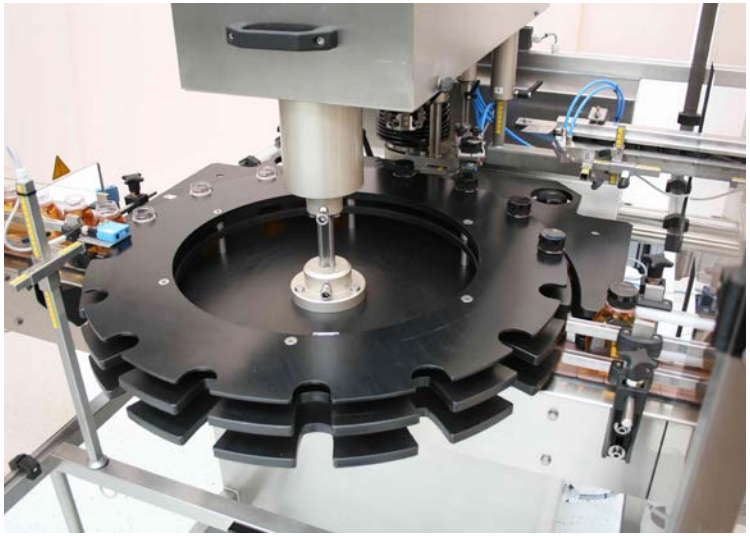
- Minimized number of format parts (largely tool-free changes)
- Quick and easy retooling
- „Parameters“ by selecting the memorized formats
- During production format parameters may be optimized
- Tremendous flexibility for future products and formats

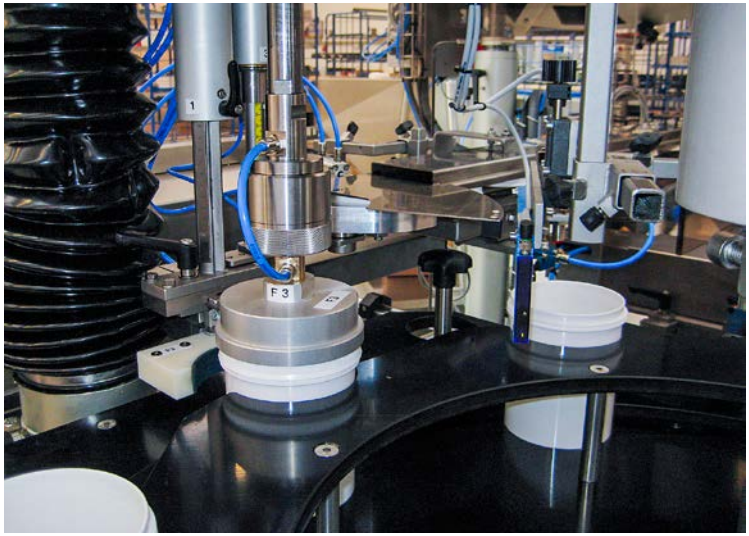
FLEXIBILITY
IN THE MACHINERY

The capping machine covers a wide range of container sizes (e.g. 30 ml bottle to 10 litre canister) whereby the use of changeable size parts is kept to a minimum. Format settings are electronic parameters (within the machine control) and reproducible adjustment settings are recorded. The format parts are designed for a quick change.

CONTAINER DIMENSIONS

The maximum allowable package dimensions are highly dependent on from the container geometry. Round bottles with concentric bottleneck can have a max. diameter of 250 mm and a max. height of 350 mm.
However a wide range of canister dimensions can also be handled.
You may enquire for an accurate assessment based on our years of experience with several thousand container shapes and dimensions.





TECHNICAL SPECIFICATIONS
THE CLOSING - BASIC MACHINE

MACHINE TYPE	VS 5014
WORKING PROCEDURE	intermittent motion with transport star-wheel
CAPPING STATIONS	1 (2nd optional)
ADDITIONAL WORKING STATIONS	possible
OPERATING DIRECTION	left to right (optional right to left)
WORKING HEIGHT	900 mm

CAPPING STATION

DRIVE	electric motor
TORQUE	0.3 to 3.5 Nm (for greater torque, please enquire)

SUPPLY

ELECTRICAL POWER	3 x 400 V, N, PE, 1,5 kW
COMPRESSED AIR	60 NL/min

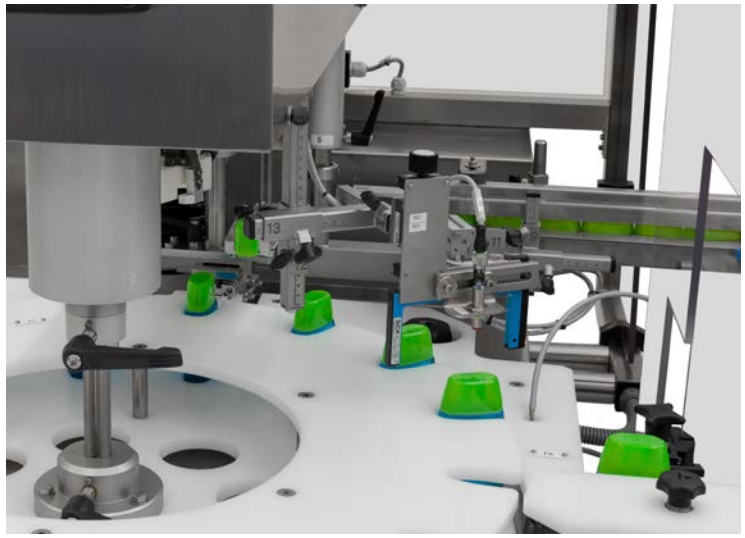
PERFORMANCE
OF THE CAPPING MACHINE

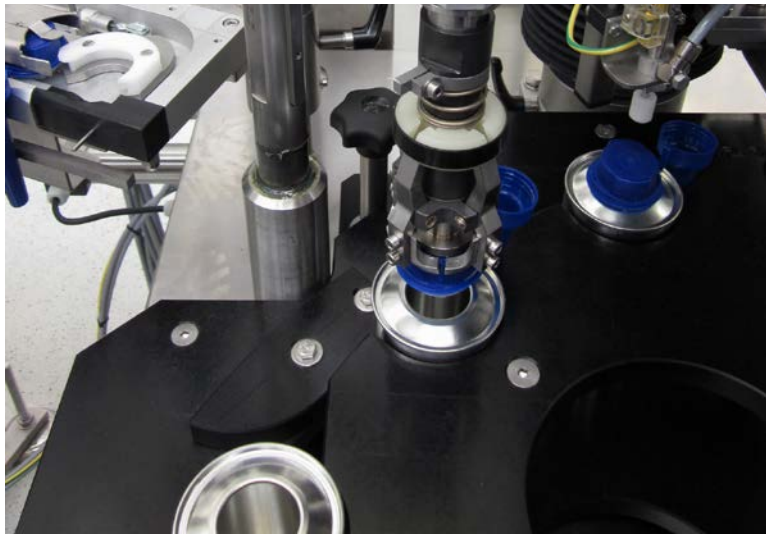
Depending on product and packaging.
Maximum mechanical output of 3,800 containers/hour.

VERSIONS

ACCORDING TO YOUR REQUIREMENTS

- Individual stainless steel conveyor belt sizes
- Various methods of transport possible
  (formats with or without pucks for example)
- Servo – Application station for plugs etc before capping
- Servo – Application station for overcaps etc after capping
- Additional sealing and inspection stations
- Explosion protection according to directive 94/9 EC (ATEX 95) possible
- Nitrogen injection before capping
- Vapour extraction from machine filling area





CONTROL

ERGONOMIC AND EASY TO USE

- logical and sophisticated machine control
- Graphical user interface and the operator adjusted
- Notes and any error messages in plain text
- Design according to the latest Machinery Directive 2006/42/EC
- Switching to other languages (option)
- OPC Server Connection (option)

The machine control and the ergonomics of the complete machine are designed for the convenience of the operator to enable a variety of solutions for various containers and product to be run together with the simplest and quickest format and product changes.
Once optimized, parameters for the production are saved in a recipe.

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.

BREITNER

CIP/SIP
VTR Trigger
SERVO CAP
CAFI
CNC SERVO DOS

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