



CAPCON

CAPPING
CAPPING DIRECTLY ON THE CONVEYOR

SERIES
VSB

food
cosmetics
chemicals
pharmaceuticals | english

Fully automatic closing of bottles and jerry cans in the range from 500 ml to 30 litres. This BREITNER capping machine closes your containers directly on the conveyor belt.

Thus, many different bottles and jerry cans can be closed with a few format parts and without long changeover times. The machine is equipped with a mechanical drive. Even for tough production conditions, for heavy cans, large caps and high torques, machines of this type have been in use for years. For applications demanding a high torque, difficult closures and non symmetrical caps, we recommend our option with Servo Screwing heads.

BASIC STRUCTURE OF THE MACHINE

Covers and enclosures of the machine are made of stainless steel AISI 304. The guarding is made of stainless steel frame with polycarbonate paneling or glazing made of safety glass (option). The drive elements are easy to maintain.

BASIC FUNCTIONS OF THE MACHINE

The containers are transported by a conveyor belt into the machine and stopped by a stop valve at the closing station. A container centering device positions the containers precisely under the capping head. Speed and torque of the screw head and the conveyor belt speed can be adjusted individually for each container and the closure. After the container is closed, it is released and transported from the stopping mechanism. In the event of machine stoppage, the accumulation of incoming containers is monitored by photocells eventually stopping the machine should the back pressure become too great.

BENEFITS

- Spindle speed infinitely adjustable
- Robust and compact design – minimal wear & tear parts
- Easy and quick format change
- „Pick and place“ system for closures
- Torque by permanent magnetic coupling „fade - free“
- Optional Servo drive for capping heads with torque control

OPTION: SERVO DRIVE FOR CAPPING HEADS

- Spindle speed infinitely adjustable
- Torque controlled electronically
- Reverse rotation when applying the closure to avoid cross-threading
- Asymmetrical caps can be correctly orientated (e.g. hinge closures)
- Checks the set torque and the angle of rotation

CONTROL / EJECTION

- closure height or presence detection (option)
- Stop the system or ejection on a separate conveyor belt (option)
- Torque or rotation angle detection with optional Servo drive for capping heads

CAPPING TECHNOLOGY TOTALLY UNIQUE



exemplary picture

FEATURES

REDUCING COSTS

- Minimized number of format parts (tool-free changing)
- Quick and easy retooling
- „Parameters“ by selecting the memorised formats (up to 200 recipes)
- During production optimization possibility of typical format parameters
- Tremendous flexibility for future products and formats

FLEXIBILITY

IN THE MACHINERY DESIGN

The capping machine can handle a wide range of packaging sizes (e.g. 500 ml bottle to 30 l canister), the use of format parts is kept to a minimum. With the optional Servo drive for capping heads even high torques can be applied or oriented closures as required. The format parts are for a quick change, largely optimized without tools.

PACKAGE DIMENSIONS

The maximum allowable package dimensions depend strongly on the geometry. Round bottles with concentric bottlenecks can have a max. diameter of 250 mm and a max. height of 320 mm.

In addition, significantly larger dimensions are possible, for example for canisters. From us you get access to our years of experience with thousands of container shapes and dimensions.



SPECIFICATIONS

THE CLOSING MACHINE - BASIC MACHINE

MACHINE TYPE	VSB 5014
WORKING PROCEDURE	Intermittent motion on the conveyor
OUTPUT CAPACITY	Up to 2,000 bottles / containers / h.
CAPPING STATIONS	1
ADDITIONAL STATIONS	no
DIRECTION FROM	left to right (optional right / left)
WORKING HEIGHT	900 mm

CAPPING STATION	
DRIVE	Electric motor
TORQUE	0.3 to 3.5 Nm (greater torque on request)
SUPPLY	
ELECTRICAL POWER	3 x 400 V, N, PE, 3 kW
AIR	60 NL/min

PERFORMANCE

OF THE CLOSING

Depends on product and packaging.
Maximum mechanical output of 2,000 containers / h.

VERSIONS

ACCORDING TO YOUR REQUIREMENTS

- Individual transport conveyor sizes (in stainless steel)
- Explosion protection according to directive 94/9 EC (ATEX 95) possible
- Nitrogen application before sealing
- Fumes extraction at source and in machine environment



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 ergonomic design allows a variety of solutions for various containers and products.

These properties result in the shortest format and product changes. Once optimized parameters for the production are stored in the machine memory.

The menu for machine operation is simple, rarely used "buttons" are hidden from the operator.

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
Control and Feed

CNC 32000 DOS